

CORRECTIVE ACTION SYSTEM EVALUATION REPORT
August 2006 through November 2006

Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina
Oconee County
UST Permit Number: 03439
SEI Project Number: 302169

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**UNDERGROUND STORAGE
TANK PROGRAM**

PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina 29676-9801

PREPARED BY:

SEI ENVIRONMENTAL, INC.
130 Penmarc Drive, Suite 108
Raleigh, North Carolina
UST Site Rehabilitation Contractor No. 354

June 28, 2007

UST PROGRAM
DOCKETING # 1

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Submittal Date: February 28, 2007
For Period Covering: February 7, 2007
Facility Name : Highway 11 Grocery
UST Permit Number: 03439
County: Oconee
Latitude: N 35°54'26.02"

Monitoring Report Number: _____
to May 3, 2007
Street Address: 13527 North SC Highway 11
City: Salem, South Carolina
Zip Code: 27603
Longitude: W 82°58'31.29"

Submitted by UST Owner/Operator:

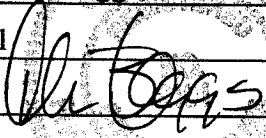
Name: Steve Smith
Company: Highway 11 Grocery
Address: 13527 North Highway 11
City: Salem State: SC
Zip Code: 29676-9801
Telephone: (864) 944-0494
SEI Project Number: 302169

Prepared by Consultant/Contractor:

Name: Chris L. Boggs
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Telephone: (919) 832-2535
UST Site Rehabilitation Contractor No. 354

Registered Professional Engineer or Professional Geologist Certification

I hereby certify that I have directed and supervised the fieldwork and preparation of this Plan, in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Chris L. Boggs, P.G.
SC Reg. No. 2101
Signature: 
Date: _____

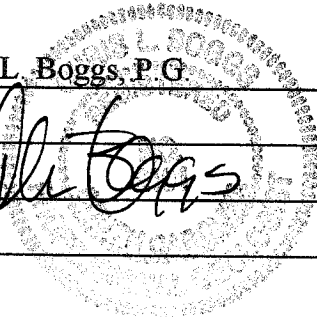


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LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

This report has been prepared under the guidance of a Licensed Geologist registered in South Carolina to meet the requirements of the South Carolina Department of Health and Environmental Control. The information and conclusions expressed in this report are based upon normal standards of the profession and limited to information available at this time. Chemical analyses of the samples associated with this report were performed by a subcontracted, independent, and certified laboratory. All data have been reviewed for accuracy and, excepting obvious errors, have been accepted as correct. SEI Environmental, Inc. reserves the right to revise estimates of performances as required by changes in the data supplied by Accutest Laboratories.

1.0 INTRODUCTION

The Highway 11 Grocery is a convenience and retail fuel store located at 13527 North SC Highway 11 in Salem, Oconee County, South Carolina. Figure 1 in Appendix A is a portion of the United States Geological Survey (USGS) 7.5-minute topographical quadrangle map identifying the location of the site.

The following is a brief summary of recent events occurring at the site:

- December 18, 2003 – Groundwater Sampling Event
- March 31, 2004 – Groundwater Sampling Event
- September 29, 2004 – Groundwater Sampling Event
- January 11, 2005 – EFR performed on MW-8
- March 17, 2005 – EFR performed on MW-8
- March 17, 2005 – Groundwater Sampling Event
- August 9, 2005 – Groundwater Sampling Event
- November 1, 2005 – Groundwater Sampling Event
- March 22, 2006 – Groundwater Sampling Event
- August 28, 2006 – Groundwater Sampling Event
- November 5, 2006 – Groundwater Sampling Event
- February 7, 2007 – Groundwater Sampling Event
- May 3, 2007 - Groundwater Sampling Event

On May 3, 2007, in accordance with the requirements of the PFP contract, samples were collected from twelve groundwater monitoring wells, one water supply well and two surface locations. This report provides details of the groundwater sampling event.

2.0 FIELD MEASUREMENTS AND SAMPLING

2.1 Groundwater Sampling

On May 3, 2007, groundwater samples were collected from twelve groundwater monitoring wells. Monitoring well MW-8 was not sampled due to the presence of free product. Prior to

sampling, groundwater depth was gauged in the monitoring wells utilizing an oil-water interface probe to measure depth to groundwater, and to detect any phase separated hydrocarbons (PSH) present. The depth to groundwater measurement is used to calculate the groundwater elevation used in determining the current groundwater potentiometric surface, along with hydraulic gradient, and groundwater flow direction.

Figure 3 in Appendix A presents a groundwater potentiometric map for the current sampling event. The latest groundwater data indicate that groundwater flow at the site is to the northeast with a hydraulic gradient of 0.034 feet per foot between monitoring wells MW-3 and MW-12. This flow direction is consistent with previous determinations of groundwater movement. Table 1 in Appendix B summarizes groundwater measurement data. Appendix C includes field observation data.

Representative groundwater samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

2.2 Surface Water Sampling

On May 3, 2007, two (CK-1 and CK-3) surface water samples were collected from adjacent creek. CK-2 location is no longer sampled per the March 17, 2005, sampling event report. CK-3 replaced CK-2 to monitor for potential contamination from monitoring well MW-14. Representative samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

2.3 Water Supply Well Sampling

On May 3, 2007, the onsite water supply well (WW-1) was sampled. The sample was collected from a spigot nearest the water supply well. Prior to sampling, the spigot was allowed to run for at least ten minutes. The sample was placed in a laboratory supplied container, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater sample was analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Analytical Results

SSTLs have been designated for fourteen (MW-1 through MW-8, MW-10, MW-11, MW-14, DMW-1, DMW-2, and DMW-4). CoCs were detected in six (MW-1, MW-2, MW-6, MW-7, MW-10, and MW-14) monitoring wells at concentrations above their respective Site Specific Target Level (SSTL). Figure 4 in Appendix A is a site map presenting monitoring well location and their CoC concentrations. Table 2 in Appendix B summarizes historical groundwater analytical results. A copy of the laboratory report and completed chain-of-custody form is included in Appendix C.

3.2 Surface Water Analytical Results

Benzene was detected in surface water sample CK-1 at a concentration of 10.8 µg/L and in sample CK-3 at a concentration of 23.1 µg/L.

3.3 Water Supply Well Analytical Results

CoCs were not detected in water supply well sample WW-1 at concentrations above laboratory detection limits.

4.0 REMEDIATION SYSTEM EFFECTIVENESS

In awarding the Pay-For-Performance (PFP) site remediation contract, the South Carolina Department of Health and Environmental Control (SCDHEC) set remediation goals for this site via site specific target levels (SSTLs). The monitoring wells have individual target concentrations for five (benzene, toluene, ethylbenzene, xylenes, MTBE and naphthalene) identified chemicals of concern (CoC).

Remediation system effectiveness can be calculated comparing the initial May 7, 2002, CoC concentrations that exceeded the SSTLs with the current CoC concentrations that exceeded the SSTLs. For monitoring wells MW-1 and MW-8, the standard values for free product (benzene, 44,390 µg/L; toluene, 26,540 µg/L; ethylbenzene, 3.700 µg/L; xylenes, 21,680 µg/L; MTBE, 173,000 µg/L; and naphthalene 637,000 µg/L) were used in the percent reduction calculation. The formula is as follows:

$$\left[\frac{[\text{08/29/96 Sample Concentration Above SSTL}] - [\text{Current Sample Concentration Above SSTL}]}{[\text{08/29/96 Sample Concentration Above SSTL}]} \right] * 100 = \% \text{ Reduction}$$

Using the current analytical results, the percent concentration reduction is 91.85%. Table 2 in Appendix B presents concentration reduction calculations.

5.0 AFVR EVENT

An eight hour AFVR event was conducted on monitoring wells MW-1 and mw-8 on May 17, 2007. Data collected during this event and a disposal manifest for the petroleum impacted water generated during this event are included as Appendix E.

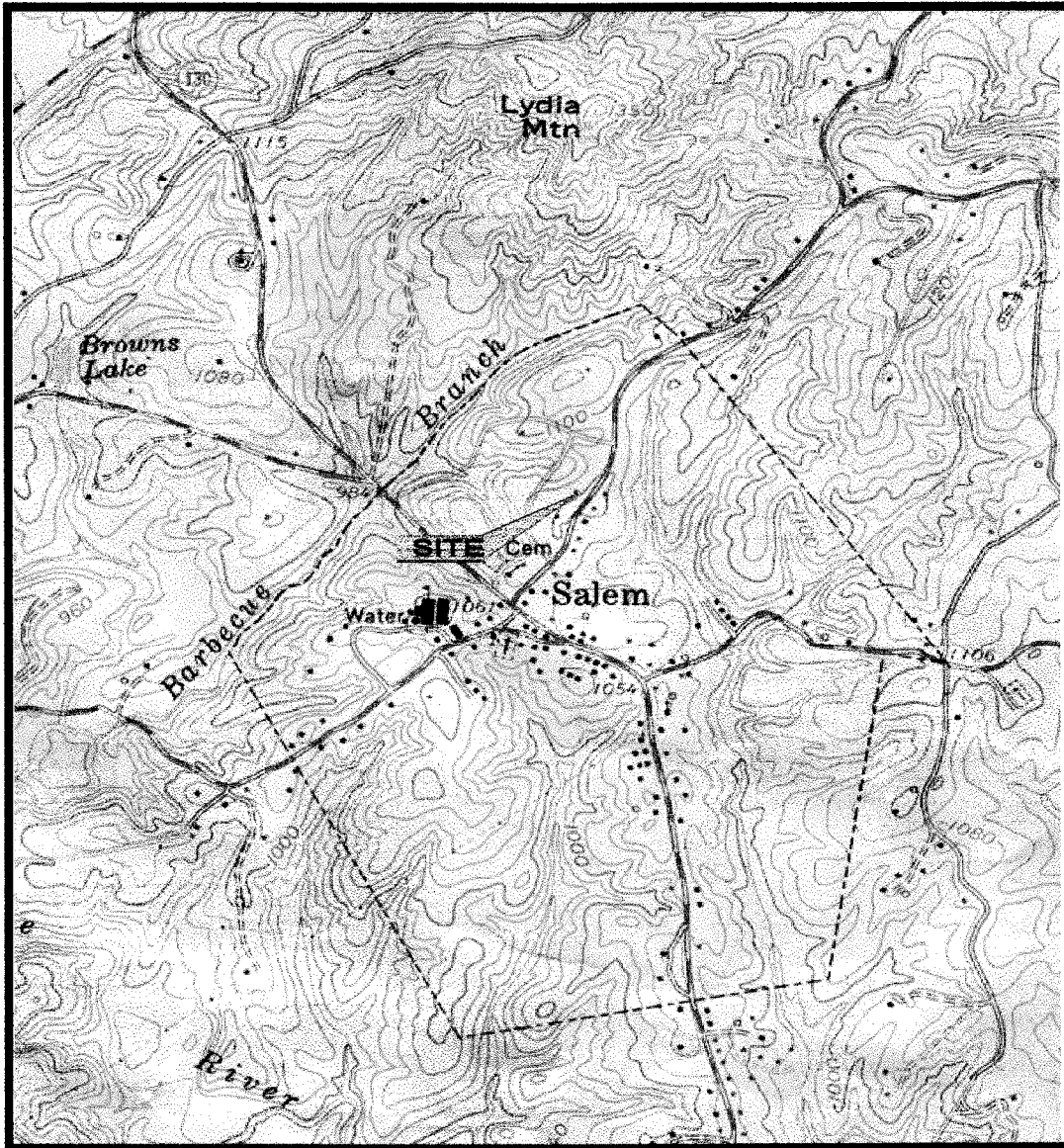
6.0 CONCLUSIONS

The groundwater flow direction at the time of the May 3, 2007 sampling event was towards the northeast with a hydraulic gradient of 0.034 feet per foot. Free product was present in monitoring wells MW-1 and MW-8. CoC were detected in four monitoring wells above their respective SSTLs. Benzene was detected in two surface water samples at a concentration above the RBSL. No CoC were detected in the water supply well sample above laboratory

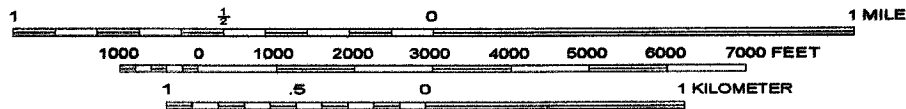
detection limits. The percent concentration reduction was calculated at 91.85%.

SEI Environmental, Inc recommends continuing the quarterly monitoring to evaluate the continued reduction of chemicals of concern in the monitoring wells on site. The next sampling event will occur in August 2007. In addition SEI recommends continuing AFVR events at monitoring wells MW-1 and MW-7 in conjunction with groundwater sample collection.

APPENDIX A
Figures



SCALE 1:24000



SALEM QUADRANGLE
 SOUTH CAROLINA-OCONEE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)
 BY U.S. GEOLOGICAL SURVEY

SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCER
 13527 Highway 11, Salem, SC
 FACILITY I.D. #03439

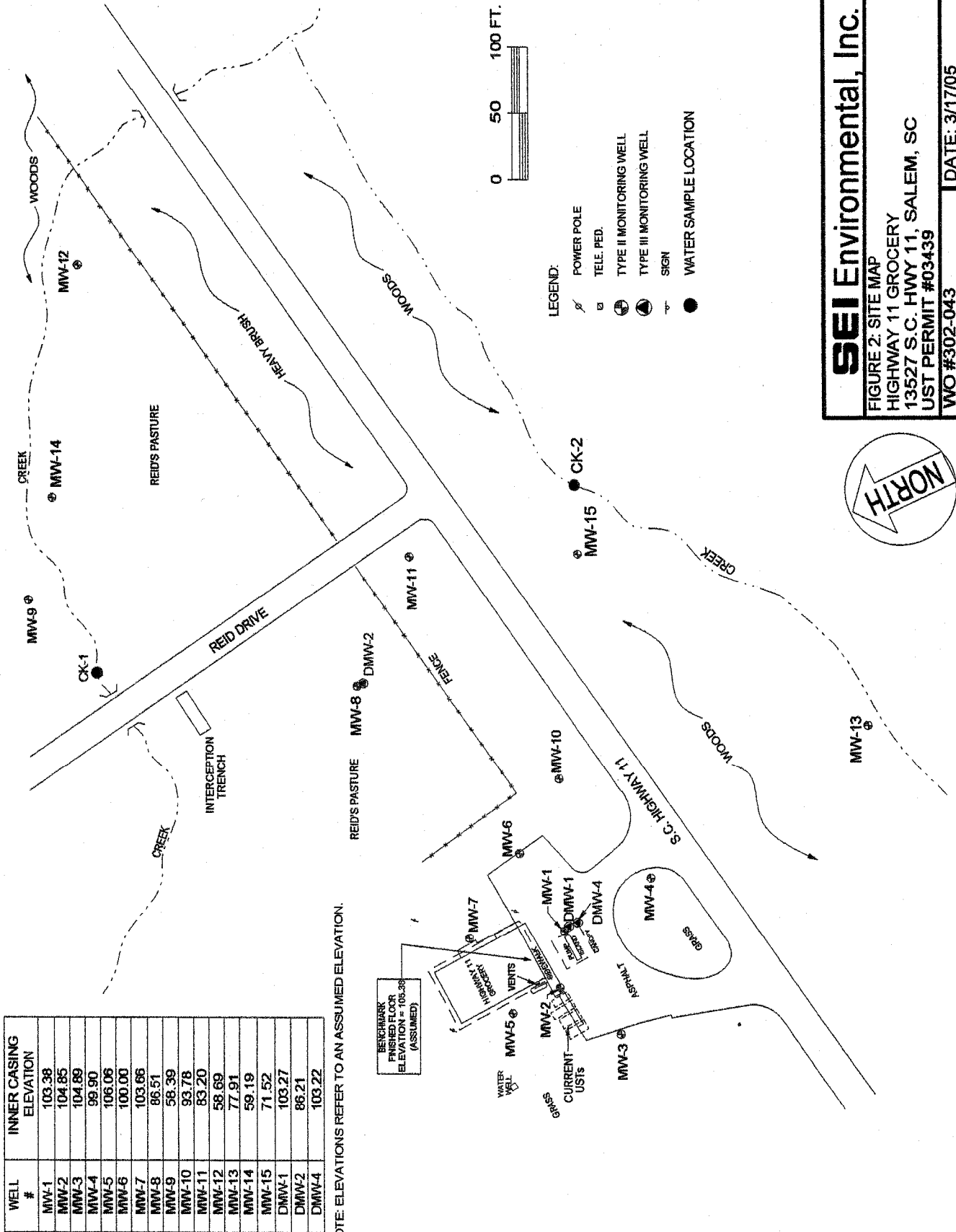
WO # 302169
 DWG # Hw 11_topo_sitemap

DATE: 9/16/05
 DRAWN BY: HWH

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 103.26
(ASSUMED)

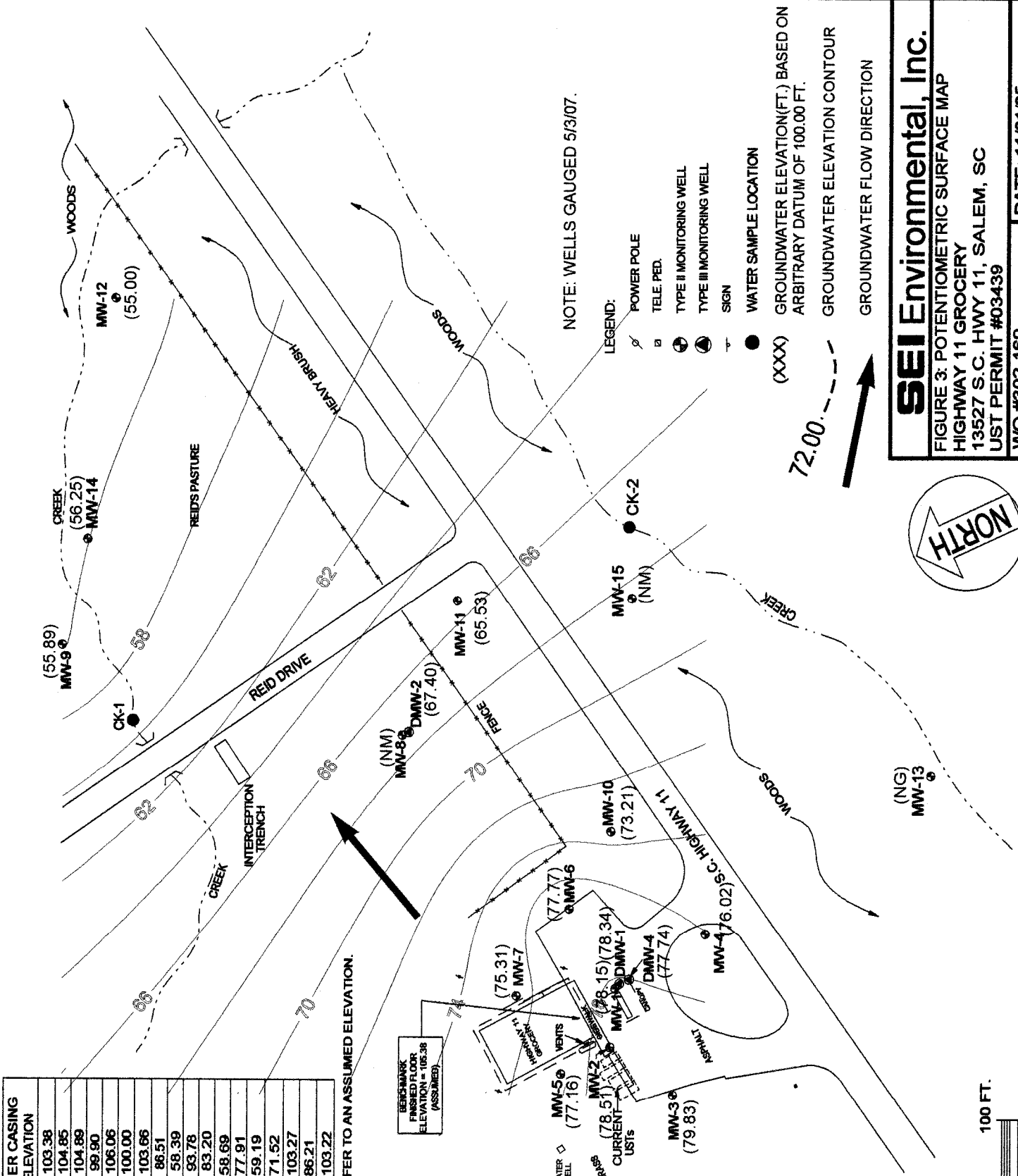


SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043
 DWG #HI01692G
 DATE: 3/17/05
 DRAWN BY: JCJ



WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

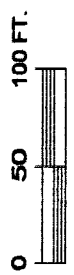
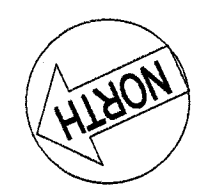
NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



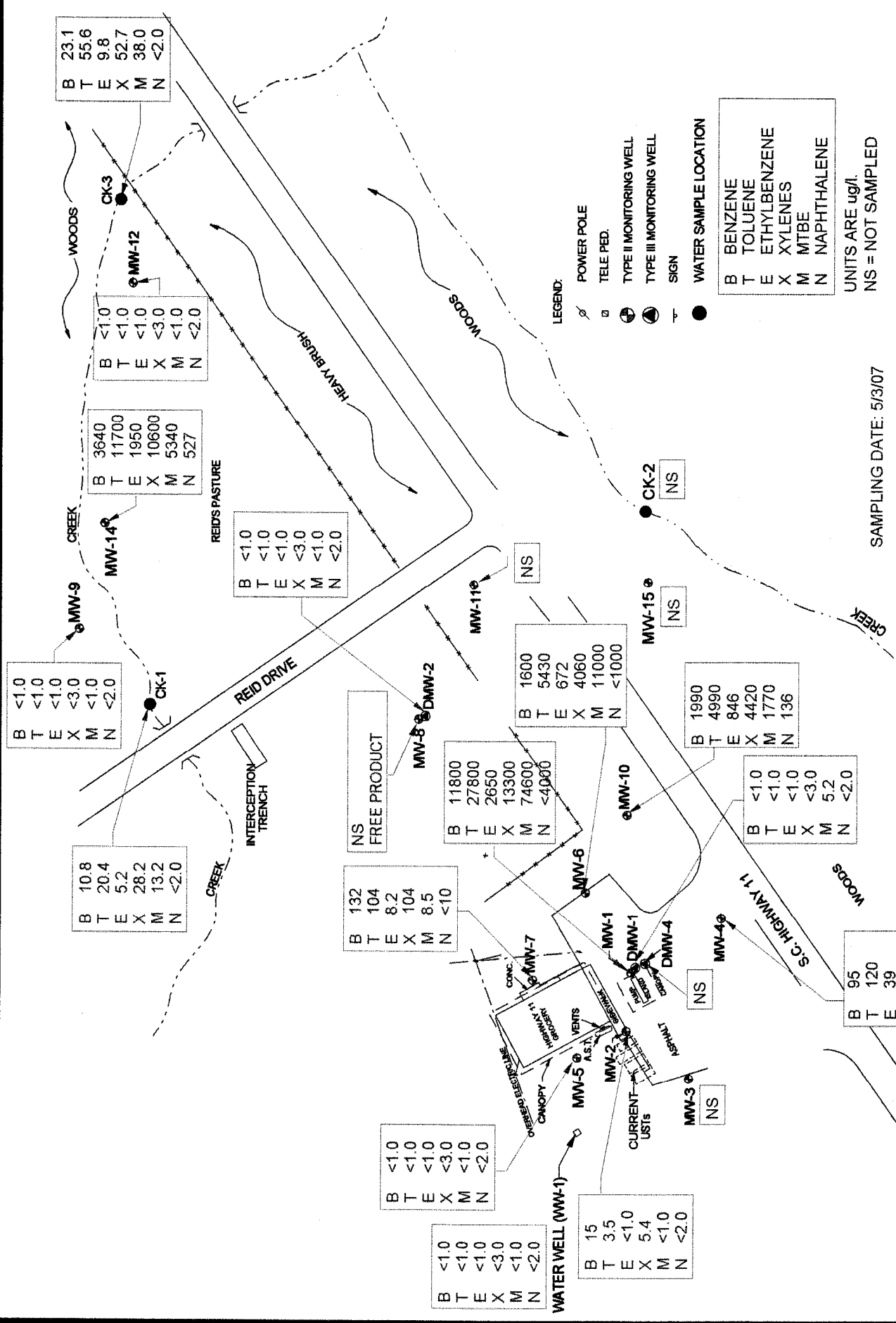
NOTE: WELLS GAUGED 5/3/07.

- LEGEND:
- POWER POLE
 - TELE. PDL.
 - TYPE II MONITORING WELL
 - TYPE III MONITORING WELL
 - SIGN
 - WATER SAMPLE LOCATION

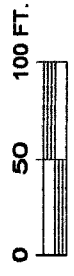
(XXX) GROUNDWATER ELEVATION (FT.) BASED ON ARBITRARY DATUM OF 100.00 FT.
 --- GROUNDWATER ELEVATION CONTOUR
 → GROUNDWATER FLOW DIRECTION



SEI Environmental, Inc.
 FIGURE 3: POTENTIOMETRIC SURFACE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-169 DATE: 11/01/05
 DWG #H101693L DRAWN BY: JCJ



SAMPLING DATE: 5/3/07



APPENDIX B
Tables

Table 1

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13627 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation		
MW-1	05/08/02	24.67	24.71	0.04	103.38	78.74		
	07/01/03	23.28	23.52	0.24		80.29		
	07/30/03	22.89	22.97	0.08		80.55		
	09/15/03	23.78	23.82	0.04		79.63		
	10/02/03	24.32	24.45	0.13		79.16		
	10/23/03	24.72	24.93	0.21		78.82		
	12/18/03	24.06				79.32		
	03/31/04	24.61				78.77		
	09/29/04	24.20				79.18		
	01/11/05	23.77				79.61		
	03/17/05	23.97				79.41		
	08/09/05	22.86				80.52		
	11/01/05	25.20	25.13	0.07		78.23		
	03/22/06	23.91				79.47		
	08/28/06	27.17	26.64	0.53		76.62		
	11/05/06	26.08	25.55	0.53		77.71		
	02/07/07	24.30	24.14	0.16		79.20		
	05/03/07	25.23				78.15		
	MW-2	05/08/02	26.08				104.85	78.77
		07/01/03	24.08					80.77
07/30/03		23.78			81.07			
09/15/03		24.73			80.12			
10/02/03		25.56			79.29			
10/23/03		25.71			79.14			
12/18/03		25.38			79.47			
03/31/04		25.85			79.00			
09/29/04		25.55			79.30			
01/11/05		24.74			80.11			
03/17/05		25.10			79.75			
08/09/05		23.70			81.15			
11/01/05		26.29			78.56			
03/22/06		25.94			78.91			
08/28/06		28.33			76.52			
11/05/06		27.39			77.46			
02/07/07		25.47			79.38			
05/03/07		26.34			78.51			
MW-3		05/08/02	24.78			104.86		80.08
		07/01/03	22.51					82.35
	07/30/03	22.21			82.65			
	09/15/03	23.23			81.63			
	10/02/03	23.87			80.99			
	10/23/03	24.23			80.63			
	12/18/03	23.93			80.93			
	03/31/04	24.44			80.42			
	09/29/04	24.20			80.66			
	01/11/05	23.36			81.50			
	03/17/05	23.65			81.21			
	08/09/05	22.11			82.75			
	11/01/05	24.85			80.01			
	03/22/06	24.57			80.29			
	08/28/06	26.95			77.91			
	11/05/06	26.05			78.81			
	02/07/07	24.15			80.71			
	05/03/07	25.03			79.83			
	MW-4	05/08/02	23.38				99.90	76.52
		07/01/03	22.10					77.80
07/30/03		22.09			77.81			
09/15/03		22.90			77.00			
10/02/03		23.32			76.58			
10/23/03		23.69			76.21			
12/18/03		22.95			76.95			
03/31/04		23.49			76.41			
09/29/04		23.14			76.76			
01/11/05		22.70			77.20			
03/17/05		22.84			77.06			
08/09/05		26.40			73.50			
11/01/05		27.27			72.63			
03/22/06		23.42			76.48			
08/28/06		25.39			74.51			
11/05/06		24.11			75.79			
02/07/07		22.96			76.94			
05/03/07		23.88			76.02			

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13627 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-5	05/08/02	28.82			106.06	77.24
	07/01/03	26.82				79.24
	07/30/03	26.53				79.53
	09/15/03	27.40				78.66
	10/02/03	27.92				78.14
	10/23/03	28.40				77.66
	12/18/03	28.40				77.66
	03/31/04	28.56				77.50
	09/29/04	28.46				77.60
	01/11/05	27.41				78.65
	03/17/05	27.86				78.20
	08/09/05	20.02				86.04
	11/01/05	28.91				77.15
	03/22/06	28.59				77.47
	08/28/06	31.06				75.00
	11/05/06	30.40				75.66
	02/07/07	28.30				77.76
	05/03/07	28.90				77.16
	MW-6	05/08/02	21.66				100.00	78.34
07/01/03		19.77			80.23	
07/30/03		19.88			80.12	
09/15/03		20.63			79.37	
10/02/03		21.34			78.66	
10/23/03		21.74			78.26	
12/18/03		21.00			79.00	
03/31/04		21.71			78.29	
09/29/04		21.33			78.67	
01/11/05		20.81			79.19	
03/17/05		20.10			79.90	
08/09/05		26.18			73.82	
11/01/05		22.41			77.59	
03/22/06		21.77			78.23	
08/28/06		23.86			76.14	
11/05/06		22.71			77.29	
02/07/07		21.13			78.87	
05/03/07		22.23			77.77	
MW-7		05/08/02	28.12			103.66		75.54
	07/01/03	26.55			77.11	
	07/30/03	26.22			77.44	
	09/15/03	26.83			76.83	
	10/02/03	27.69			75.97	
	10/23/03	28.10			75.96	
	12/18/03	27.71			75.95	
	03/31/04	28.00			75.66	
	09/29/04	27.60			76.06	
	01/11/05	26.88			76.78	
	03/17/05	27.83			75.83	
	08/09/05	20.27			83.39	
	11/01/05	28.63			75.03	
	03/22/06	N/L			N/L	
	08/28/06	30.43			73.23	
	11/05/06	29.56			74.10	
	02/07/07	27.41			76.25	
	05/03/07	28.35			75.31	
	MW-8	05/08/02	21.00				86.51	65.51
07/01/03		20.96			65.55	
07/30/03		20.46			66.05	
09/15/03		21.17			65.34	
10/02/03		20.44			66.07	
10/23/03		21.54			64.97	
12/18/03		20.82			65.69	
03/31/04		21.35			65.16	
09/29/04		21.10			65.41	
01/11/05		21.04			65.47	
03/17/05		20.95			65.56	
08/09/05		22.16			64.35	
11/01/05		23.31			63.20	
03/22/06		22.00	21.23	0.77	65.11	
08/28/06		24.46	22.05	2.41	63.93	
11/05/06		NM				
02/07/07		NM				
05/03/07		NM				

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-9	05/08/02	2.47			58.39	55.92
	07/01/03	2.30				56.09
	07/30/03	2.26				56.13
	09/15/03	2.42				55.97
	10/02/03	2.16				56.23
	10/23/03	2.42				55.97
	12/18/03	2.20				56.19
	03/31/04	2.56				55.83
	09/29/04	1.90				56.49
	01/11/05	2.23				56.16
	03/17/05	2.11				56.28
	08/09/05	2.04				56.35
	11/01/05	2.33				56.06
	03/22/06	2.23				56.16
	08/28/06	2.50				55.89
	11/05/06	2.38				56.01
	02/07/07	2.36				56.03
05/03/07	2.50			55.89		
MW-10	05/08/02	20.04			93.78	73.74
	07/01/03	16.20				77.58
	07/30/03	18.95				74.83
	09/15/03	16.53				77.26
	10/02/03	20.19				73.59
	10/23/03	20.51				73.27
	12/18/03	19.83				73.95
	03/31/04	18.85				74.93
	09/29/04	20.02				73.76
	01/11/05	19.47				74.31
	03/17/05	18.84				74.94
	08/09/05	18.94				74.84
	11/01/05	21.07				72.71
	03/22/06	20.16				73.62
	08/28/06	22.16				71.62
	11/05/06	20.94				72.84
	02/07/07	19.65				74.13
05/03/07	20.57			73.21		
MW-11	05/08/02	16.22			83.20	66.98
	07/01/03	16.53				66.67
	07/30/03	16.70				66.50
	09/15/03	17.35				65.85
	10/02/03	16.40				66.80
	10/23/03	17.83				65.37
	12/18/03	17.58				65.62
	03/31/04	16.21				66.99
	09/29/04	15.92				67.28
	01/11/05	15.93				67.27
	03/17/05	16.86				66.34
	08/09/05	15.80				67.40
	11/01/05	18.22				64.98
	03/22/06	17.28				55.92
	08/28/06	19.09				64.11
	11/05/06	17.79				65.41
	02/07/07	16.44				66.76
05/03/07	17.67			65.53		
MW-12	05/08/02	2.80			58.69	55.89
	07/01/03	3.16				55.53
	07/30/03	2.55				56.14
	09/15/03	3.26				55.43
	10/02/03	2.60				56.09
	10/23/03	3.50				55.19
	12/18/03	2.97				55.72
	03/31/04	3.19				55.50
	09/29/04	3.02				55.57
	01/11/05	3.10				55.67
	03/17/05	3.12				55.59
	08/09/05	2.72				55.57
	11/01/05	3.63				55.97
	03/22/06	3.23				55.06
	08/28/06	3.84				55.46
	11/05/06	3.48				54.85
	02/07/07	3.15				55.21
05/03/07	3.69			55.54		
					55.00	

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-13	05/08/02	6.29			77.72	71.43
	07/01/03	6.44				71.28
	07/30/03	N/L				N/L
	09/15/03	6.36				71.36
	10/02/03	6.24				71.48
	10/23/03	6.78				70.94
	12/18/03	7.51				70.21
	03/31/04	6.62				71.10
	09/29/04	6.28				71.44
	01/11/05	6.44				71.28
	03/17/05	6.52				71.20
	08/09/05	10.52				67.20
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	N/L				N/L
	08/28/06	N/L				N/L
02/07/07	N/L			N/L		
05/03/07	N/L			N/L		
MW-14	05/08/02	2.00			59.19	57.19
	07/01/03	2.28				56.91
	07/30/03	2.03				57.16
	09/15/03	2.42				56.77
	10/02/03	1.98				57.21
	10/23/03	2.67				56.52
	12/18/03	1.58				57.61
	03/31/04	2.03				57.16
	09/29/04	1.77				57.42
	01/11/05	1.92				57.27
	03/17/05	2.14				57.06
	08/09/05	1.75				57.44
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	3.36				55.83
	11/05/06	N/L				N/L
02/07/07	N/L			N/L		
05/03/07	2.94			56.25		
MW-15	05/08/02	10.82			71.52	60.70
	07/01/03	10.76				60.76
	07/30/03	10.11				61.41
	09/15/03	11.00				60.52
	10/02/03	10.20				61.32
	10/23/03	11.07				60.45
	12/18/03	11.88				59.64
	03/31/04	11.02				60.50
	09/29/04	10.67				60.85
	01/11/05	10.83				60.69
	03/17/05	10.61				60.91
	08/09/05	10.68				60.84
	11/01/05	11.32				60.20
	03/22/06	NG				NG
	08/28/06	11.62				59.90
	11/05/06	NM				NM
02/07/07	NM			NM		
05/03/07	NM			NM		

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
DMW-1	05/08/02	23.88			103.27	79.39
	07/01/03	23.61				79.66
	07/30/03	24.24				79.03
	09/15/03	24.60				78.67
	10/02/03	24.00				79.27
	10/23/03	24.50				78.77
	12/18/03	24.11				79.16
	03/31/04	23.61				79.66
	09/29/04	22.72				80.55
	01/11/05	22.97				80.30
	03/17/05	24.68				78.59
	08/09/05	22.66				80.81
	11/01/05	25.11				78.16
	03/22/06	24.71				78.56
	08/28/06	26.95				76.32
	11/05/06	25.85				77.42
	02/07/07	24.59				78.68
05/03/07	24.93			78.34		
DMW-2	05/08/02	17.83			86.21	68.38
	07/01/03	16.67				69.54
	07/30/03	17.20				69.01
	09/15/03	17.31				68.90
	10/02/03	16.80				69.41
	10/23/03	17.63				68.58
	12/18/03	17.11				69.10
	03/31/04	15.75				70.46
	09/29/04	16.49				69.72
	01/11/05	16.44				69.77
	03/17/05	17.22				68.99
	08/09/05	16.71				69.50
	11/01/05	18.08				68.13
	03/22/06	17.40				68.81
	08/28/06	18.72				67.49
	11/05/06	18.00				68.21
	02/07/07	18.93				67.28
05/03/07	18.81			67.40		
DMW-4	05/08/02	24.30			103.22	78.92
	07/01/03	23.93				79.29
	07/30/03	24.75				78.47
	09/15/03	24.95				78.27
	10/02/03	24.45				78.77
	10/23/03	24.95				78.27
	12/18/03	24.39				78.83
	03/31/04	23.88				79.34
	09/29/04	23.18				80.04
	01/11/05	23.32				79.90
	03/17/05	25.08				78.14
	08/09/05	22.96				80.26
	11/01/05	26.51				76.71
	03/22/06	25.00				78.22
	08/28/06	27.33				75.89
	11/05/06	26.39				76.83
	02/07/07	24.59				78.63
05/03/07	25.48			77.74		

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-1	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
	07/01/03	10,000	34,000	4,400	23,000	34,000	1,200			106,600.00
	07/30/03	7,600	28,000	6,300	32,000	25,000.0	2,600			101,400.00
	12/18/03	2,200	6,200	910	5,800	16,000	2,500			33,610.00
	03/31/04	3,400	9,300	1,100	6,200	20,000	1,200			41,200.00
	09/29/04	3,200	7,300	<1,000	4,500	12,000	<5,000			27,000.00
	03/17/05	5,600	9,550	1,570	7,610	19,300	325			43,955.00
	08/09/05	16,900	42,600	3,520	19,000	115,000	705			197,725.00
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/22/06	20,700	41,100	3,100	11,700	103,000	<4,000			179,600.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.16		906,310.00
	05/03/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00
	SSTL	22	4,497	3,148	44,969	180	112			
> SSTL	11,778	23,303	0	0	74,420	0				
MW-2	05/07/02	13	8.0	1.0	5.0	5.0	5.0			37.00
	07/01/03	4.7	5.0	1.0	3.0	1.0	5.0			19.70
	07/30/03	5.8	5.0	1.0	5.3	1.0	5.0			23.10
	12/18/03	2.2	5.0	1.0	3.0	1.0	5.0			17.20
	03/31/04	2.6	5.0	1.0	3.0	1.0	5.0			17.60
	09/29/04	14	<25	<5.0	<15	<5.0	<25			14.00
	03/17/05	13	5	<1.0	5	<1.0	<2.0			22.40
	08/09/05	39.7	14.5	1.2	27.5	<1.0	<2.0			82.90
	11/01/05	3.8	1.6	<1.0	<3.0	<1.0	<2.0			5.40
	03/22/06	11.8	4.2	<1.0	3.4	<1.0	<2.0			19.40
	08/28/06	32.0	3.1	<1.0	4.5	<1.0	<2.0			39.60
	08/28/06	8.2	<1.0	<1.0	<3	<1.0	<2.0			8.20
	02/07/07	6.9	2.1	<1.0	3.4	<1.0	<2.0			12.40
	05/03/07	16.0	3.5	<1.0	5.4	<1.0	<2.0			23.90
	SSTL	13	8.0	1.0	5.0	5.0	6.0			
> SSTL	2.0	0.0	0.0	0.4	0.0	0.0				
MW-3	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.4	<1.0	<3.0	<1.0	<2.0			1.40
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	SSTL	1.0	1.0	1.0	1.0	5.0	5.0			
> SSTL	0.0	0.4	0.0	0.0	0.0	0.0				
MW-4	05/07/02	1,500	5,320	620	3,360	810	500			12,110.00
	07/01/03	4,800	14,000	2,300	12,000	12,000	2,600			47,700.00
	07/30/03	4,000	14,000	2,700	13,000	2,100	500			36,300.00
	12/18/03	1,100	2,400	230	1,900	1,200	250			7,080.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	53	<25	7.1	70	210	<25			340.10
	03/17/05	<1.0	<1.0	<1.0	<3.0	17	<2.0			16.80
	08/09/05	<1.0	<1.0	<1.0	<3.0	5.9	<2.0			5.90
	11/01/05	3,720	3,660	745	4,170	4,540	<200			16,835.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.2	<2.0			1.20
	08/28/06	43	7	4	88	153.0	3.6			298.70
	11/05/06	195	24	19	164	225.0	11.6			638.90
	02/07/07	25	59	13	67	47.1	<2.0			
	05/03/07	95	120	39	199	56.3	8.1			517.30
	SSTL	1,500	5,320	620	3,360	810	500.0			
> SSTL	0	0.0	0	0	0	0.0				

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass	
MW-5	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00	
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	07/30/03	4.2	17.0	3.6	18.0	2.2	<5.0			45.00	
	12/18/03	2.3	<5.0	<1.0	3.2	1.3	<5.0			6.80	
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
SSTL	1.0	1.0	1.0	1.0	5.0	5.0					
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0					
MW-6	05/07/02	1,780	4,950	490	2,880	6,350	500.0			16,950.00	
	07/01/03	2,200	6,600	820	4,400	12,000	2,500			28,520.00	
	07/30/03	4,200	13,000	1,600	8,900	21,000	400			49,100.00	
	12/18/03	5,100	14,000	1,700	11,000	19,000	2,500			53,300.00	
	03/31/04	280	840	100	2,200	900	250			4,570.00	
	09/29/04	2,400	<5,000	<1,000	<3,000	17,000	<5,000			19,400.00	
	03/17/05	3,490	7,500	952	5,380	15,500	262			33,084.00	
	08/09/05	1,370	4,630	295	2,220	7,640	<400			16,155.00	
	11/01/05	979	2,220	282	1,810	8,410	<200			14,701.00	
	03/22/06	1,280	3,480	399	2,880	8,600	<200			16,639.00	
	08/28/06	99	76	<2.0	243	22	<4.0			439.60	
	11/05/06	34.0	60.9	<2.0	194	355	<20			643.90	
	02/07/07	4,970.0	18,100.0	2,070	12,000	30,500	<500			67,640.00	
	05/03/07	1,600.0	5,430.0	672	4,060	11,000	<1000			22,762.00	
SSTL	1,780	4,950	490	2,880	6,350	500.0					
> SSTL	0.0	480.0	182.0	1,180.0	4,650.0	0.0					
MW-7	05/07/02	34	20	<1.0	8.0	7.0	<5.0			69.00	
	07/01/03	37	36	1.7	20	9.2	<5.0			103.90	
	07/30/03	18	18	<1.0	10	<1.0	<5.0			45.70	
	12/18/03	41	20	<1.0	<3.0	<1.0	<5.0			61.00	
	03/31/04	30	34	<1.0	16	<1.0	<5.0			80.00	
	09/29/04	370	500	<100	<300	<100	<500			870.00	
	03/17/05	505	590	34	280	65	<2.0			1,473.40	
	08/09/05	52	56	2.6	34	9.2	<2.0			154.00	
	11/01/05	27	42	3.7	24	<1.0	<2.0			96.10	
	03/22/06	Not Sampled									
	08/28/06	99	96	3.6	127	7	<2.0			331.90	
	11/05/06	50	44.5	<1.0	23.5	1.9	<2.0			119.90	
	02/07/07	182	261.0	12.8	202.0	18.7	<2.0			676.50	
	05/03/07	132	104.0	8.2	104.0	8.5	<10.0			386.70	
SSTL	22	20	1.0	8.0	7.0	5.0					
> SSTL	110.0	84.0	7.2	96.0	1.5	0.0					
MW-8	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00	
	07/01/03	12,000	51,000	7,800	40,000	11,000	2,500			124,300.00	
	07/30/03	12,000	40,000	3,600	18,000	15,000	660			89,260.00	
	12/18/03	10,000	27,000	3,300	18,000	14,000	2,500			74,800.00	
	03/31/04	17,000	140,000	32,000	180,000	8,600	<25,000			377,600.00	
	09/29/04	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
	03/17/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
	08/09/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
	03/22/06	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	2.41		906,310.00	
	11/05/06	44,390	26,540	3,700	21,680	173,000	637,000	NM		906,310.00	
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.89		906,310.00	
	05/03/07	44,390	26,540	3,700	21,680	173,000	637,000	NM		906,310.00	
SSTL	204	40,888	28,622	278,000	1,362	1,021					
> SSTL	44,186.0	0.0	0.0	0.0	171,638.0	635,979.0					

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-9	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	1.2	8.8	<1.0	<5.0			10.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.5	<1.0	<3.0	<1.0	<2.0			1.50
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL		5.0	1,000	700	10,000	40	25			
MW-10	05/07/02	115	185	68.0	328	86	9.0			791.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	170	420	43	240	540	6.5			1,419.50
	12/18/03	89	280	74	480	91	25.0			1,039.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	1.7	4.4	<1.0	<3.0	18	<2.0			24.00
	11/01/05	10,000	23,500	1,410	7,510	21,600	<1,000			64,020.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	79	98	16	69	169	<2.0			430.90
	11/05/06	203	412	67	226	137	4.7			1,049.90
	02/07/07	376	1,080	454	2,440	507	82.8			4,939.80
05/03/07	1,980	4,980	846	4,420	1,770	136.0			14,152.00	
SSTL		115	185	68	328	86	9.0			
> SSTL		1,875.0	4,805.0	778.0	4,092.0	1,684.0	127.0			
MW-11	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	42.2	<1.0	<1.0	93.6	4.5	3.8			144.10
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.9	<2.0			1.90
	08/28/06	6.4	<1	<1	82.6	4.4	2.5			95.90
	11/05/06	2.8	<1	<1	8.9	4.7	<2.0			16.40
	02/07/07	<1	<1	<1	8.9	1.1	<2.0			10.00
05/03/07	NS	NS	NS	NS	NS	NS			0.00	
SSTL		1.0	1.0	1.0	1.0	5.0	5.0			
> SSTL		0.0	0.0	0.0	0.0	0.0	0.0			
MW-12	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	1.5	24.8	10.1	58.6	<1.0	11.3			106.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL		5.0	1,000	700	10,000	40	25			

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-13	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	NS	NS	NS	NS	NS	NS			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
05/03/07	NS	NS	NS	NS	NS	NS			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
MW-14	05/07/02	3,780	13,800	27,000	14,700	7,010	500			66,790.00
	07/01/03	3,500	10,000	1,900	10,000	5,300	500			31,200.00
	07/30/03	3,100	9,700	1,800	9,300	4,300	500			28,700.00
	12/18/03	3,300	11,000	2,000	11,000	4,100	500			31,900.00
	03/31/04	5,500	17,000	2,600	13,000	7,100	570			45,770.00
	09/29/04	3,200	12,000	1,600	9,100	3,200	<5,000			29,100.00
	03/17/05	5,140	13,000	1,710	10,900	4,970	339			36,059.00
	08/09/05	3,290	10,600	1,820	11,000	4,950	<400			31,660.00
	11/01/05	NL	NL	NL	NL	NL	NL			0.00
	03/22/06	NL	NL	NL	NL	NL	NL			0.00
	08/28/06	2,010.0	4,080.0	1,160.0	6,320.0	3,320.0	261.0			17,151.00
	11/05/06	NL	NL	NL	NL	NL	NL			0.00
	02/07/07	NL	NL	NL	NL	NL	NL			0.00
05/03/07	3,640.0	11,700.0	1,950.0	10,600.0	5,340.0	527.0			33,757.00	
SSTL	5.0	1,000	700	10,000	40	25				11,770.00
> SSTL	0	0	0	0	0	0				
MW-15	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	NS	NS	NS	NS	NS	NS			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
05/03/07	NS	NS	NS	NS	NS	NS			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
DMW-1	05/07/02	215	430	50	50	1,780	250			2,775.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	4.2	<5.0			4.20
	12/18/03	1.5	<5.0	<1.0	<3.0	<1.0	<5.0			1.50
	03/31/04	<1.0	<15.0	<1.0	<3.0	3.9	<5.0			3.90
	09/29/04	8.4	<25	<5.0	<15	130	<25			138.40
	03/17/05	<1.0	1.2	<1.0	<3.0	8.1	<2.0			9.30
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<5.0	<5.0	<5.0	<15	<5.0	<10			0.00
	03/22/06	3.0	35.1	16	92.2	21.9	13.1			181.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	20.3	<2.0			20.30
	11/05/06	<1.0	<1.0	<1.0	<3.0	90.8	<2.0			90.80
	02/07/07	9.2	2.5	<1.0	9.7	164.0	<4.0			185.40
05/03/07	<1.0	<1.0	<1.0	<3.0	5.2	<2.0			5.20	
SSTL	215	430	50	50	1,780	250				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				

Table 2
Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
DMW-2	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	6.4	<5.0			6.40
	07/30/03	<1.0	8.4	6.8	30.0	<1.0	6.7			51.90
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
DMW-4	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
CK-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	2.6	<5.0	<1.0	4.8	4.5	<5.0			11.90
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	11	18	4.1	20.0	9.0	<5.0			62.10
	09/29/04	16	30	6.1	32.0	22.0	<5.0			106.10
	03/17/05	10.4	17.5	4.1	20.8	12.3	<2.0			65.10
	08/09/05	7.6	17.6	2.9	15.8	6.9	<2.0			50.80
	11/01/05	20.3	38.2	8.8	48.8	27.3	<2.0			143.40
	03/22/06	6.6	12.9	3.2	15.2	7.8	<2.0			45.70
	08/28/06	13.1	29.0	6.7	27.8	16.7	<2.0			93.30
	11/05/06	13.9	22.3	6.7	34.3	17.8	<2.0			95.00
	02/07/07	7.9	16.4	4.0	21.1	9.8	<2.0			59.20
	05/03/07	10.8	20.4	5.2	28.2	13.2	<2.0			77.80
	RBSL	5.0	1,000	700	10,000	40	25			
CK-2	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
RBSL	5.0	1,000	700	10,000	40	25				

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
CK-3	08/09/05	14.4	33.3	7.1	41.1	25.8	<2.0			121.70
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	23.3	49.7	10.1	48.2	33.8	<2.0			165.10
	11/05/06	25.2	49.1	11.4	63.8	49.3	<2.0			198.80
	02/07/07	21.7	57.5	10.3	57.9	30.8	<2.0			178.20
	05/03/07	23.1	55.6	9.8	52.7	38.0	<2.0			179.20
RBSL		5.0	1,000	700	10,000	40	25			
WW-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
RBSL		5.0	1,000	700	10,000	40	25			
TOTAL MASS										1,107,677
TOTAL SSTL MASS		3,881	57,303	33,705	339,605	10,645	2,452		447,591	
INITIAL MASS ABOVE SSTL									12,046,007	
CURRENT MASS ABOVE SSTL									981,459	
PERCENT TOTAL MASS REDUCTION ABOVE SSTL									91.85	

Reported in parts per billion (µg/l)
 ND: Compound not detected
 BDL: Below analytical Detection Limits
 SSTL: Site Specific Treatment Level

APPENDIX C
Field Data Information Sheets for Groundwater Sampling

SEI Environmental SC Monitoring Well Gauging Data Sheet

Site Name: Highway 11 Grocery

WO# 302169

Date 5.3.07

*Gauge MW-3, MW-11
& DMW-4 Donut
Sample*

Well ID	Total Depth (feet)	Well Dia. (in.)	Depth to Product (feet)	Product Thickness (feet)	Depth to Water (feet)	Notes
MW-1	30	2			25.23	
MW-2	35	2			26.34	
MW-3	35	2			25.03	Semi-annual
MW-4	35	2			23.88	
MW-5	35	2			28.90	
MW-6	35	2			22.23	
MW-7	40	2			28.35	
MW-9	11	2			2.50	
MW-10	24	2			20.57	
MW-11	23	2			17.67	Semi-annual
MW-12	11	2			3.69	
MW-14	9	2			2.94	
DW-1	45	2			24.93	
DW-2	75	2	XXXXXX		18.81	
DMW-4	61	2			25.48	Semi-annual
Water Supply Well Sample: WW-1						
Surface Water Samples: CK-1 & CK-3						

Analysis: EPA Method 8260B for BTEX, MTBE, and Naphthalene

2-inch diameter well: Well Volume = (water column) x (0.163 gallon/foot)

4-inch diameter well: Well Volume = (water column) x (0.652 gallon/foot)

Purge amount = Well Volume x 3

APPENDIX D
Laboratory Analytical Results and Chain-of-Custody

Sample Summary

SEI-Columbia, SC

Job No: F49324

Hwy 11 Grocery; Salem, SC
Project No: 302169

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F49324-1	05/03/07	11:10 RR	05/05/07	AQ	Ground Water	MW-1
F49324-2	05/03/07	11:15 RR	05/05/07	AQ	Ground Water	DMW-1
F49324-3	05/03/07	11:21 RR	05/05/07	AQ	Ground Water	MW-6
F49324-4	05/03/07	11:30 RR	05/05/07	AQ	Ground Water	MW-7
F49324-5	05/03/07	11:37 RR	05/05/07	AQ	Ground Water	MW-10
F49324-6	05/03/07	11:43 RR	05/05/07	AQ	Ground Water	MW-2
F49324-7	05/03/07	11:52 RR	05/05/07	AQ	Ground Water	MW-5
F49324-8	05/03/07	12:00 RR	05/05/07	AQ	Ground Water	MW-4
F49324-9	05/03/07	12:00 RR	05/05/07	AQ	Ground Water	WW-1
F49324-10	05/03/07	12:15 RR	05/05/07	AQ	Ground Water	DMW-2
F49324-11	05/03/07	12:30 RR	05/05/07	AQ	Ground Water	MW-9
F49324-12	05/03/07	12:36 RR	05/05/07	AQ	Ground Water	MW-14
F49324-13	05/03/07	12:40 RR	05/05/07	AQ	Ground Water	MW-12

Sample Summary (continued)

SEI-Columbia, SC

Job No: F49324

Hwy 11 Grocery; Salem, SC
Project No: 302169

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F49324-14	05/03/07	12:32 RR	05/05/07	AQ	Ground Water	CK-1
F49324-15	05/03/07	12:45 RR	05/05/07	AQ	Ground Water	CK-3



IT'S ALL IN THE CHEMISTRY

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	05/03/07
Lab Sample ID:	F49324-1	Date Received:	05/05/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045986.D	2000	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	11800	2000	ug/l	
108-88-3	Toluene	27800	2000	ug/l	
100-41-4	Ethylbenzene	2650	2000	ug/l	
1330-20-7	Xylene (total)	13300	6000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	74600	2000	ug/l	
91-20-3	Naphthalene	ND	4000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	05/03/07
Lab Sample ID:	F49324-6	Date Received:	05/05/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045991.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	15.0	1.0	ug/l	
108-88-3	Toluene	3.5	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	5.4	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

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

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

Report of Analysis

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Client Sample ID: MW-4		Date Sampled: 05/03/07
Lab Sample ID: F49324-8		Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a	
Method: SW846 8260B		
Project: Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045993.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2 ^a	B046014.D	2	05/18/07	KW	n/a	n/a	VB1942

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	95.3	1.0	ug/l	
108-88-3	Toluene	120 ^b	2.0	ug/l	
100-41-4	Ethylbenzene	38.6	1.0	ug/l	
1330-20-7	Xylene (total)	199	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	56.3	1.0	ug/l	
91-20-3	Naphthalene	8.1	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	100%	76-127%
2037-26-5	Toluene-D8	96%	99%	86-112%
460-00-4	4-Bromofluorobenzene	95%	96%	84-120%

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

(b) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID: MW-5	Date Sampled: 05/03/07
Lab Sample ID: F49324-7	Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045992.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

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Client Sample ID: MW-6	Date Sampled: 05/03/07
Lab Sample ID: F49324-3	Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045988.D	500	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1600	500	ug/l	
108-88-3	Toluene	5430	500	ug/l	
100-41-4	Ethylbenzene	672	500	ug/l	
1330-20-7	Xylene (total)	4060	1500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11000	500	ug/l	
91-20-3	Naphthalene	ND	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	110%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-7	Date Sampled:	05/03/07
Lab Sample ID:	F49324-4	Date Received:	05/05/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045989.D	5	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	132	5.0	ug/l	
108-88-3	Toluene	104	5.0	ug/l	
100-41-4	Ethylbenzene	8.2	5.0	ug/l	
1330-20-7	Xylene (total)	104	15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.5	5.0	ug/l	
91-20-3	Naphthalene	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID: MW-9	Date Sampled: 05/03/07
Lab Sample ID: F49324-11	Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045999.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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

Report of Analysis

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Client Sample ID: MW-10		Date Sampled: 05/03/07
Lab Sample ID: F49324-5		Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a	
Method: SW846 8260B		
Project: Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045990.D	20	05/17/07	KW	n/a	n/a	VB1940
Run #2 ^a	B046013.D	100	05/18/07	KW	n/a	n/a	VB1942

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1990	20	ug/l	
108-88-3	Toluene	4990 ^b	100	ug/l	
100-41-4	Ethylbenzene	846	20	ug/l	
1330-20-7	Xylene (total)	4420	60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1770	20	ug/l	
91-20-3	Naphthalene	136	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	76-127%
2037-26-5	Toluene-D8	100%	100%	86-112%
460-00-4	4-Bromofluorobenzene	101%	102%	84-120%

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

(b) Result is from Run# 2

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

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

Report of Analysis

Page 1 of 1

Client Sample ID: MW-12
 Lab Sample ID: F49324-13
 Matrix: AQ - Ground Water
 Method: SW846 8260B
 Project: Hwy 11 Grocery; Salem, SC

Date Sampled: 05/03/07
 Date Received: 05/05/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B046001.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2 ^a	B046016.D	1	05/18/07	KW	n/a	n/a	VB1942

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND ^b	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	104%	100%	76-127%
2037-26-5	Toluene-D8	102%	101%	86-112%
460-00-4	4-Bromofluorobenzene	103%	99%	84-120%

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

(b) Result is from Run# 2

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

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

Report of Analysis

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Client Sample ID: MW-14		Date Sampled: 05/03/07
Lab Sample ID: F49324-12		Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a	
Method: SW846 8260B		
Project: Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B046000.D	20	05/17/07	KW	n/a	n/a	VB1940
Run #2 ^a	B046015.D	200	05/18/07	KW	n/a	n/a	VB1942

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3640 ^b	200	ug/l	
108-88-3	Toluene	11700 ^b	200	ug/l	
100-41-4	Ethylbenzene	1950	20	ug/l	
1330-20-7	Xylene (total)	10600 ^b	600	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5340 ^b	200	ug/l	
91-20-3	Naphthalene	527	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	100%	76-127%
2037-26-5	Toluene-D8	91%	99%	86-112%
460-00-4	4-Bromofluorobenzene	92%	97%	84-120%

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

(b) Result is from Run# 2

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	DMW-1	Date Sampled:	05/03/07
Lab Sample ID:	F49324-2	Date Received:	05/05/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B046012.D	1	05/18/07	KW	n/a	n/a	VB1942
Run #2 ^b	B045987.D	2	05/17/07	KW	n/a	n/a	VB1940

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.2	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	90%	76-127%
2037-26-5	Toluene-D8	101%	105%	86-112%
460-00-4	4-Bromofluorobenzene	101%	112%	84-120%

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

(b) Confirmation run.

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

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

Report of Analysis

Client Sample ID: DMW-2	Date Sampled: 05/03/07
Lab Sample ID: F49324-10	Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045998.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID: CK-1	Date Sampled: 05/03/07
Lab Sample ID: F49324-14	Date Received: 05/05/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B046002.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	10.8	1.0	ug/l	
108-88-3	Toluene	20.4	1.0	ug/l	
100-41-4	Ethylbenzene	5.2	1.0	ug/l	
1330-20-7	Xylene (total)	28.2	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.2	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	CK-3	Date Sampled:	05/03/07
Lab Sample ID:	F49324-15	Date Received:	05/05/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B046003.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	23.1	1.0	ug/l	
108-88-3	Toluene	55.6	1.0	ug/l	
100-41-4	Ethylbenzene	9.8	1.0	ug/l	
1330-20-7	Xylene (total)	52.7	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	38.0	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	WW-1	Date Sampled:	05/03/07
Lab Sample ID:	F49324-9	Date Received:	05/05/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B045997.D	1	05/17/07	KW	n/a	n/a	VB1940
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-8700 • FAX: 407-425-0707

ACCUTEST JOB #: **F49324**
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES
SEI Environmental NAME: 5100 Reagan Dr ADDRESS: Charlotte NC 28206 CITY: SEI Environmental SEND REPORT TO: 704-596-8624 PHONE #		Hwy 11 Grocery PROJECT NAME: Salem, SC LOCATION: PROJECT NO: FAX # 704-596-8605				EPA 8240B BTEX, MTEB & NAPM				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY:	MATRIX						NO. OF BOTTLES	PRESERVATION	LAB USE ONLY
1	MW-1	5-30-07	1110	RR	GW	33				
2	DMW-1		1115							
3	MW-6		1121							
4	MW-7		1130							
5	MW-10		1137							
6	MW-2		1143							
7	MW-5		1152							
8	MW-4		1200							
9	WW-1		1200	ZS	DW					
10	DMW-2		1215	RR	GW					
11	MW-9		1230	RR	GW					
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION				COMMENTS/REMARKS				
<input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY										
RELINQUISHED BY: 1. [Signature]	DATE TIME: 5-5-07	RECEIVED BY: 1. FK	RELINQUISHED BY: 2. FK	DATE TIME: 5-5-07	RECEIVED BY: 2. [Signature]					
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:					
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE 0.9 C			
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:								

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION										MATRIX CODES		
SET Environmental NAME 5100 Reagan Dr ADDRESS Charlotte, NC 28206 CITY, STATE ZIP SET Environmental SEND REPORT TO: PHONE # 704-596-8624		HWY 11 Grocery PROJECT NAME Salem, SC LOCATION PROJECT NO. FAX # 704-596-8605				EPA Method 8210B for STEX, MTBE, & Naphthalene										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OJ - OIL LQ - OTHER LIQUID SOL - OTHER SOLID		
ACCUTEST SAMPLE # FIELD ID / POINT OF COLLECTION		COLLECTION DATE TIME		SAMPLED BY: MATRIX VOLUME PRESERVATION																						LAB USE ONLY
12		MW-14		1236 RR 6W33		X X X												
13		MW-12		1240 RR		X X X												
14		CK-1		1232 ZS		X X X												
15		CK-3		1245 ZS		X X X												
DATA TURNAROUND INFORMATION <input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS												
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
RELINQUISHED BY: 1. <i>C. C. Smith</i> DATE TIME: 5-7-00		RECEIVED BY: 1. <i>FX</i>		RELINQUISHED BY: 2. <i>FK</i> DATE TIME: 5-5-07		RECEIVED BY: 2. <i>J. Corral</i> DATE TIME: 11:30		3.		4.		5.		6.				
				SEAL: <input type="checkbox"/> PRESERVE WHERE APPLICABLE		ON ICE: <input type="checkbox"/>		TEMPERATURE: <i>0.0 C</i>										

3.1
3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F49325 CLIENT: SEI PROJECT: HWY 11 GROCERY
DATE/TIME RECEIVED: 6-5-07 11:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 0.8
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
AIRBILL NUMBERS: 8536 3068 2354

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
NUMBER OF 5035 FIELD KITS ? 0
NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE Se S-S-07 TECHNICIAN SIGNATURE/DATE _____ ASBD 10/03/06

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DOES NOT MATCH LABEL(S)
- ID'S ON COC DOES NOT MATCH LABEL(S)
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT
(APPLICABLE TO EPA 800 SERIES OR NORTH CAROLINA ORGANICS)

APPENDIX E
AFVR Data and Disposal Manifest



HAZ~MAT

TRANSPORTATION AND DISPOSAL
P.O. BOX 37392 • CHARLOTTE, N.C. 28237
(704) 332-5600
FAX (704) 375-7183

Manifest No. 28071
P.O. No. _____
Job No. 117-3512
11/19/07

NON-HAZARDOUS SPECIAL WASTE

Section I. GENERATOR (Generator complete all of Section I)

GENERATOR LOCATION
NAME Will Green
ORIGINATING ADDRESS 13027 So. Highland
MAILING ADDRESS _____
CITY Charlotte STATE NC ZIP _____
PHONE NO. 704-516-8621
CONTACT NAME Scott Lewis
NAMES OF WASTE: Leakdown contact water

WORK CONTRACTED BY
Bill To (If different from information at left)
NAME SEI Environmental
ADDRESS 2002 Roubidoux Dr
CITY Charlotte STATE _____ ZIP 28206
PHONE NO. 704-521-5074
CONTACT NAME Scott Lewis

No.	Type	Units	Quantity
			<u>175</u>

Section II. INVOICE INFORMATION GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR AFVR	<u>175</u>	<u>591</u>
2. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
3. SOLUBLE OILS OR COOLANTS PUMPED FROM STORAGE		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUM REMOVED - SOLID OR EMPTY		
6. 55-GALLON DRUM REMOVED - LIQUID		
7. _____		
8. _____		

ARRIVAL TIME: _____ DEPARTURE TIME: _____

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____ Signature _____ Shipment Date 11/19/07

Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

HAZ~MAT
TRANSPORTATION AND DISPOSAL
P.O. BOX 37392 • CHARLOTTE, N.C. 28237
Driver Name/Title _____
b. Phone No. _____ c. Truck No. _____
Hazardous Waste Transporter Permits
EPA NCR 000003186
EPA NCD048461370
Driver Signature _____ Shipment Date _____

TRANSPORTER II
e. Name _____
f. Address _____
g. Driver Name / Title _____
h. Phone No. _____ i. Truck No. _____
j. Transporter II Permit Nos. _____
Driver Signature _____ Shipment Date _____

Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Name: Haz-Mat Transportation & Disposal, Inc. a. Phone No. 704-332-5600
Physical Address: 210 Dalton Avenue b. Mailing Address: P.O. Box 37392
Charlotte, N.C. 28206 Charlotte, N.C. 28237

Discrepancy Indication Space _____
I certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation, then into the CMUD sanitation sewer system under permit IUP#5012. (3) Sludges from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT Mike Smith DATE _____ MONTH 11 DAY 19 YEAR 07



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JUL 03 2007

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received July 2, 2007
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The Program notes the following deficiencies:

- The location of creek sample CK-3 was not plotted on the site map.
- Groundwater elevation and free-phase product thickness data were not given for monitoring well MW-8.
- Other than a disposal manifest, no AFVR data was provided.
- The CoC percentage reduction stated in the report was generated using incorrect solubility values. The correct values are given in corrective action bid solicitation.

Please have your contractor correct the aforementioned deficiencies in the next CASE report. AFVR data provided should include date of the event, starting and ending times, volatile air emission concentration measurements taken at 30-minute intervals, gauging data for the well(s) measured before and after the event, product recovery rate, and estimated amount of product removed.

Based upon the current data, the Program calculates a **50.17%** reduction in total concentrations of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). Please note that the calculation uses the **correct** saturation values for free-phase product.

The Program concurs with your contractor's recommendation to continue quarterly AFVR events on monitoring wells MW-1 and MW-7. Please have your contractor submit the next CASE report on or before **November 1, 2007**. The report should document quarterly sampling and AFVR activities conducted in September 2007.

On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgetjp@dhec.sc.gov.

J

Sincerely,



Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.14

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite #108,
Raleigh, NC 27603 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)

03439 Highway 11 Grocery

5/3/07 sampling

Enter Initial, SSTL and subsequent

CoC Reduction: 50.1665 %

Well		Benzene	Toluene	Ethylbenzene	Xylene	MtBE	Naphthalene	EDB	Totals
MW-1	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	22	4497	3148	44969	180	112	0	52928
	Initial > SSTL	225978	296503	276852	233031	5109820	1888	0	6144072
	Subsequent	11800	27800	2650	13300	74600	4000	0	134150
	Subsequent > SSTL	11778	23303	0	0	74420	3888	0	113389
MW-2	Initial	13	8	1	5	5	5	0	37
	SSTL	13	8	1	5	5	5	0	37
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	15	3	1	5	1	2	0	27
	Subsequent > SSTL	2	0	0	0	0	0	0	2
MW-3	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-4	Initial	1500	5320	620	3360	810	500	0	12110
	SSTL	1500	5320	620	3360	810	500	0	12110
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	95	120	39	199	56	8	0	517
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-5	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-6	Initial	1780	4950	490	2880	6350	500	0	16950
	SSTL	1780	4950	490	2880	6350	500	0	16950
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1600	5430	672	4060	11000	1000	0	23762
	Subsequent > SSTL	0	480	182	1180	4650	500	0	6992
MW-7	Initial	34	20	1	8	7	5	0	75
	SSTL	22	20	1	8	7	5	0	63
	Initial > SSTL	12	0	0	0	0	0	0	12
	Subsequent	132	104	8	104	8	2	0	358
	Subsequent > SSTL	110	84	7	96	1	0	0	298
MW-8	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	204	40888	28622	278000	1362	1021	0	350097
	Initial > SSTL	225796	260112	251378	0	5108638	979	0	5846903
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSTL	225796	260112	251378	0	5108638	979	0	5846903
MW-10	Initial	115	185	68	328	86	9	0	791
	SSTL	115	185	68	328	86	9	0	791
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1990	4990	846	4420	1770	136	0	14152
	Subsequent > SSTL	1875	4805	778	4092	1684	127	0	13361
MW-11	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	9	1	2	0	15
	Subsequent > SSTL	0	0	0	8	0	0	0	8
MW-14	Initial	3780	13800	27000	14700	7010	500	0	66790
	SSTL	5	1000	700	10000	40	25	0	11770
	Initial > SSTL	3775	12800	26300	4700	6970	475	0	55020
	Subsequent	3640	11700	1950	10600	5340	527	0	33757
	Subsequent > SSTL	3635	10700	1250	600	5300	502	0	21987

03439 Highway 11 Grocery

<u>Total Concentration Reduction</u>	<u>Individual Constituent Reductions</u>					
Total Initial Conc. : 12493598 µg/L	CoC	Initial	Subseq.	Initial >SSTL	Subseq. > SSTL	CoC % Reduction
Total Subsequent Conc. : 6403787 µg/L	Benzene	459442	245278	455561	243196	46.6161502
Total SSTL Conc. : 447591 µg/L	Toluene	626718	351153	569415	299484	47.40496826
Initial > SSTL : 12046007 µg/L	Ethylbenzene	588235	286172	554530	253595	54.26847961
Subsequent > SSTL : 6002948 µg/L	Xylenes	577336	310712	237731	5984	97.48286929
Total Reduction: 50.1665 %	MtBE	10236073	5202785	10225428	5194693	49.19828295
	Naphthalene	5794	7687	3342	5996	-79.41352484
	EDB	0	0	0	0	non-SSTL CoC

SEI
Environmental, Inc.

2025 Progress Court
Raleigh, North Carolina 27608
800.474.7049
919.832.2535
Fax 832.5914

RECEIVED

NOV 07 2007

UNDERGROUND STORAGE
TANK PROGRAM

November 2, 2007


Mr. Joel P. Padgett, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Assessment & Corrective Action Section, Underground Storage Tank Program
2600 Bull Street
Columbia, South Carolina 29201

RE: Corrective Action System Evaluation Report
Highway 11 Grocery
13527 North SC Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Dear Mr. Padgett:

Please find enclosed the quarterly Corrective Action System Evaluation (C.A.S.E) Report for the August 21, 2007 groundwater sampling event at the above referenced site. If you have any questions or comments, please contact me at (919) 832-2535.

Sincerely,
SEI Environmental, Inc.



Chris L. Boggs, P.G.
Project Manager

cc: Mr. John Smith, Highway 11 Grocery

UST PROGRAM
DOCKETING # 3

CORRECTIVE ACTION SYSTEM EVALUATION REPORT
May 2007 through August 2007

Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina
Oconee County
UST Permit Number: 03439
SEI Project Number: 302169

PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina 29676-9801

PREPARED BY:

SEI ENVIRONMENTAL, INC.
130 Penmarc Drive, Suite 108
Raleigh, North Carolina
UST Site Rehabilitation Contractor No. 354

November 2, 2007

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Submittal Date: February 28, 2007

Monitoring Report Number: _____

For Period Covering: May 3, 2007

to August 21, 2007

Facility Name: Highway 11 Grocery

Street Address: 13527 North SC Highway 11

UST Permit Number: 03439

City: Salem, South Carolina

County: Oconee

Zip Code: 27603

Latitude: N 35°54'26.02"

Longitude: W 82°58'31.29"

Submitted by UST Owner/Operator: _____

Prepared by Consultant/Contractor: _____

Name: Steve Smith

Name: Chris L. Boggs

Company: Highway 11 Grocery

Company: SEI Environmental, Inc.

Address: 13527 North Highway 11

Address: 2025 Progress Place

City: Salem State: SC

City: Raleigh State: NC

Zip Code: 29676-9801

Zip Code: 27608

Telephone: (864) 944-0494

Telephone: (919) 832-2535

SEI Project Number: 302169

UST Site Rehabilitation Contractor No. 354

Registered Professional Engineer or Professional Geologist Certification

I hereby certify that I have directed and supervised the fieldwork and preparation of this Plan, in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Chris L. Boggs

SC Reg. No. 2101

Signature: _____

Date: _____

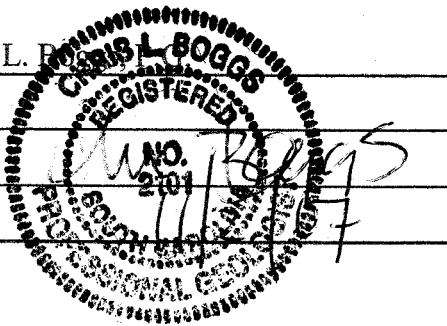


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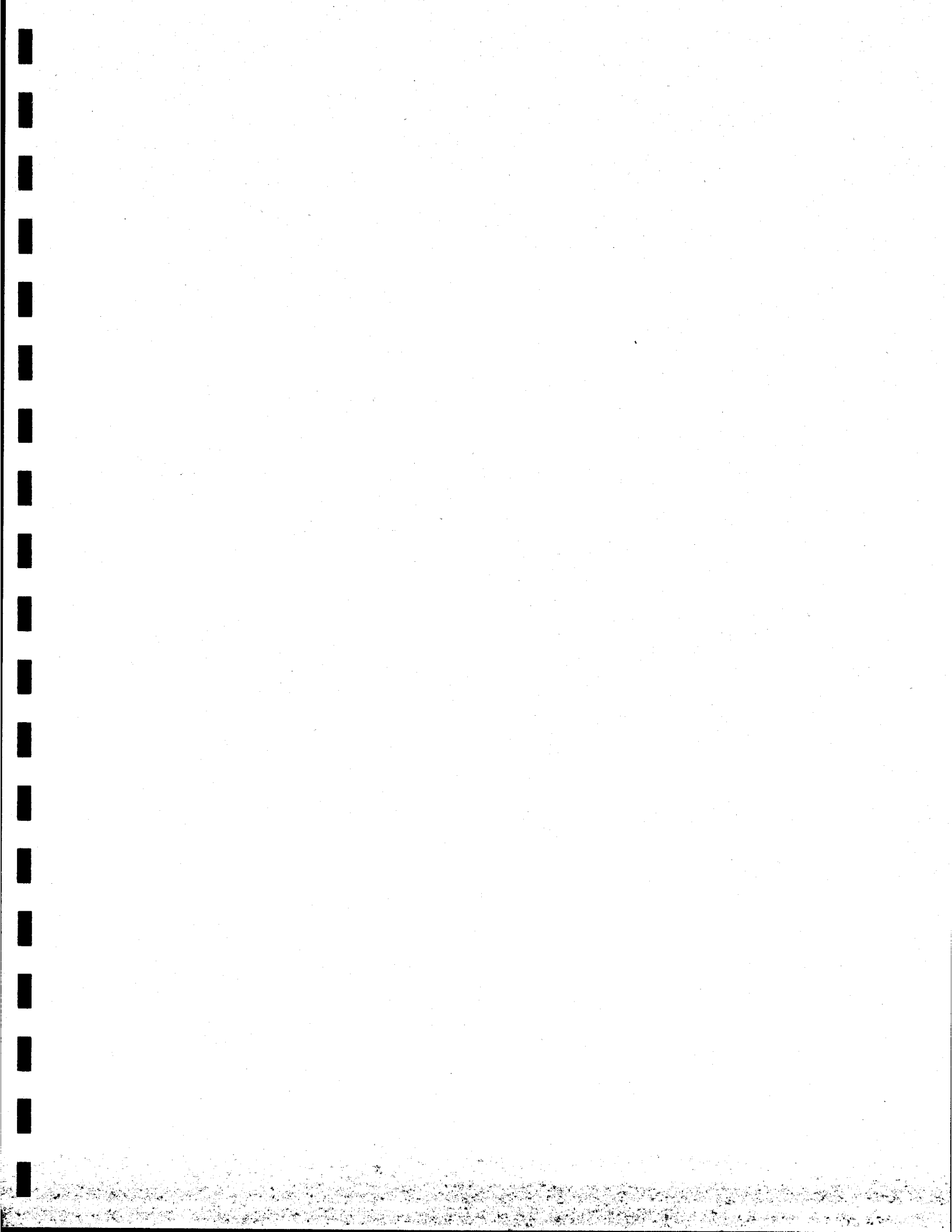
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LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

This report has been prepared under the guidance of a Licensed Geologist registered in South Carolina to meet the requirements of the South Carolina Department of Health and Environmental Control. The information and conclusions expressed in this report are based upon normal standards of the profession and limited to information available at this time. Chemical analyses of the samples associated with this report were performed by a subcontracted, independent, and certified laboratory. All data have been reviewed for accuracy and, excepting obvious errors, have been accepted as correct. SEI Environmental, Inc. reserves the right to revise estimates of performances as required by changes in the data supplied by Accutest Laboratories.

1.0 INTRODUCTION

The Highway 11 Grocery is a convenience and retail fuel store located at 13527 North SC Highway 11 in Salem, Oconee County, South Carolina. Figure 1 in Appendix A is a portion of the United States Geological Survey (USGS) 7.5-minute topographical quadrangle map identifying the location of the site.

The following is a brief summary of recent events occurring at the site:

- December 18, 2003 – Groundwater Sampling Event
- March 31, 2004 – Groundwater Sampling Event
- September 29, 2004 – Groundwater Sampling Event
- January 11, 2005 – EFR performed on MW-8
- March 17, 2005 – EFR performed on MW-8
- March 17, 2005 – Groundwater Sampling Event
- August 9, 2005 – Groundwater Sampling Event
- November 1, 2005 – Groundwater Sampling Event
- March 22, 2006 – Groundwater Sampling Event
- August 28, 2006 – Groundwater Sampling Event
- November 5, 2006 – Groundwater Sampling Event
- February 7, 2007 – Groundwater Sampling Event
- May 3, 2007 - Groundwater Sampling Event
- August 21, 2007 – Groundwater Sampling Event

On August 21, 2007, in accordance with the requirements of the PFP contract, samples were collected from thirteen groundwater monitoring wells and two surface locations. This report provides details of the groundwater sampling event.

2.0 FIELD MEASUREMENTS AND SAMPLING

2.1 Groundwater Sampling

On August 21, 2007, groundwater samples were collected from thirteen groundwater monitoring wells. Prior to sampling, groundwater depth was gauged in the monitoring

wells utilizing an oil-water interface probe to measure depth to groundwater, and to detect any phase separated hydrocarbons (PSH) present. The depth to groundwater measurement is used to calculate the groundwater elevation used in determining the current groundwater potentiometric surface, along with hydraulic gradient, and groundwater flow direction.

Figure 3 in Appendix A presents a groundwater potentiometric map for the current sampling event. The latest groundwater data indicate that groundwater flow at the site is to the northeast with a hydraulic gradient of 0.032 feet per foot between monitoring wells MW-3 and MW-12. This flow direction is consistent with previous determinations of groundwater movement. Table 1 in Appendix B summarizes groundwater measurement data. Appendix C includes field observation data.

Representative groundwater samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

2.2 Surface Water Sampling

On August 21, 2007, two (CK-1 and CK-3) surface water samples were collected from adjacent creek. CK-2 location is no longer sampled per the March 17, 2005, sampling event report. CK-3 replaced CK-2 to monitor for potential contamination from monitoring well MW-14. Representative samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Analytical Results

SSTLs have been designated for fourteen (MW-1 through MW-8, MW-10, MW-11, MW-14, DMW-1, DMW-2, and DMW-4). CoCs were detected in six (MW-1, MW-2, MW-6, MW-7, MW-10, and MW-14) monitoring wells at concentrations above their respective Site Specific Target Level (SSTL). Figure 4 in Appendix A is a site map presenting monitoring well location and their CoC concentrations. Table 2 in Appendix B summarizes historical groundwater analytical results. A copy of the laboratory report and completed chain-of-custody form is included in Appendix C.

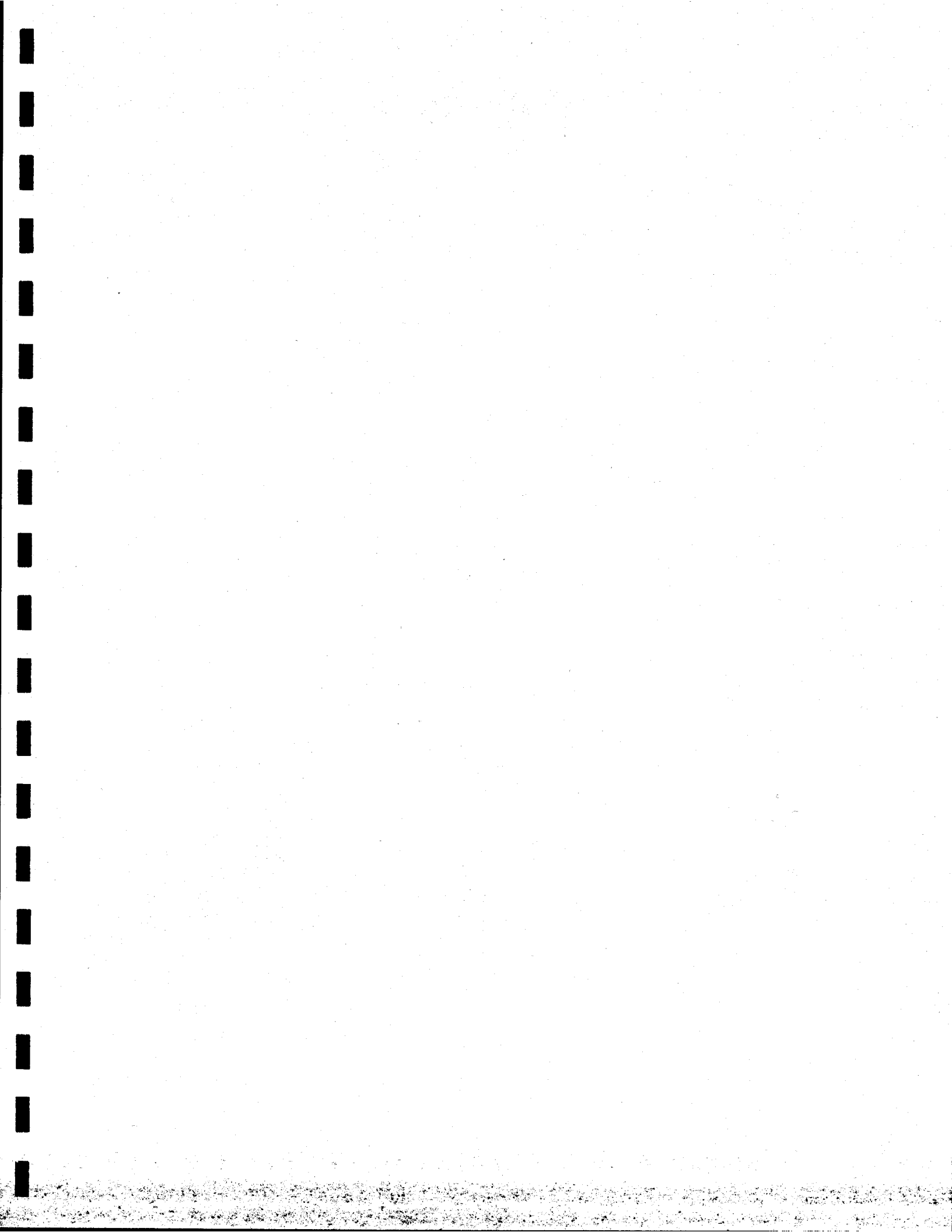
3.2 Surface Water Analytical Results

Benzene was detected in surface water sample CK-1 at a concentration of 40.4 µg/L.

4.0 REMEDIATION SYSTEM EFFECTIVENESS

In awarding the Pay-For-Performance (PFP) site remediation contract, the South Carolina Department of Health and Environmental Control (SCDHEC) set remediation goals for this site via site specific target levels (SSTLs). The monitoring wells have individual target concentrations for five (benzene, toluene, ethylbenzene, xylenes, MTBE and naphthalene) identified chemicals of concern (CoC).

Remediation system effectiveness can be calculated comparing the initial May 7, 2002, CoC concentrations that exceeded the SSTLs with the current CoC concentrations that exceeded the SSTLs. For monitoring wells MW-1 and MW-8, the standard values for free product (benzene, 226,000 µg/L; toluene, 301,000 µg/L; ethylbenzene, 280,000 µg/L; xylenes, 278,000 µg/L; MTBE, 5,110,000 µg/L; and naphthalene 2,000 µg/L) were used in the percent reduction calculation. The formula is as follows:



$$\frac{[08/29/96 \text{ Sample Concentration Above SSTL}] - [\text{Current Sample Concentration Above SSTL}]}{[08/29/96 \text{ Sample Concentration Above SSTL}]}$$

*100 = % Reduction

Using the current analytical results, the percent concentration reduction is 40.08%. Table 2 in Appendix B presents concentration reduction calculations.

5.0 AFVR EVENT

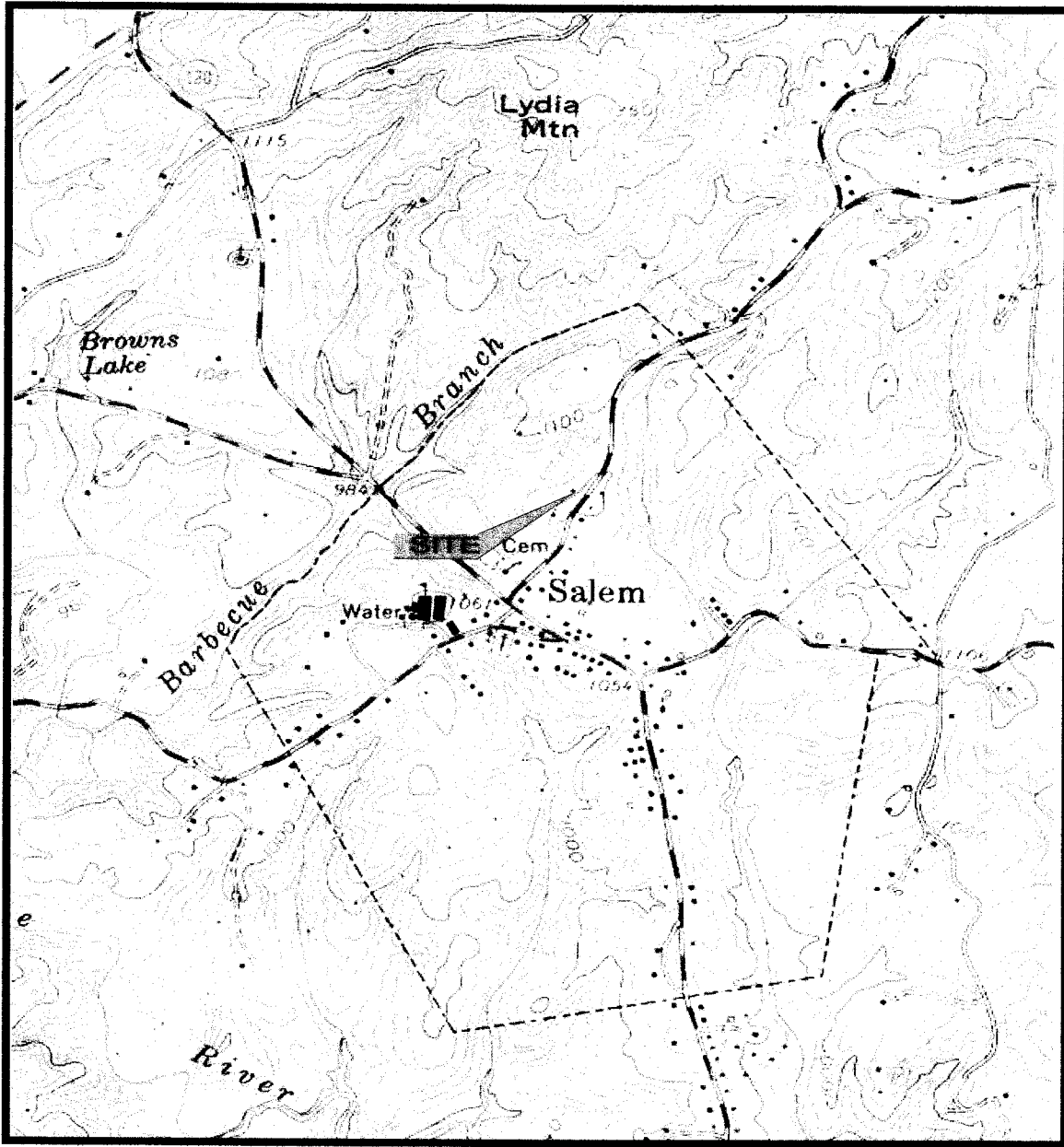
An eight hour AFVR event was conducted on monitoring wells MW-1 and MW-8 on August 21, 2007. Data collected during this event and a disposal manifest for the petroleum impacted water generated during this event are included as Appendix E.

6.0 CONCLUSIONS

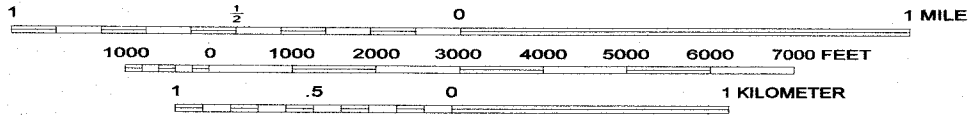
The groundwater flow direction at the time of the August 21, 2007 sampling event was towards the northeast with a hydraulic gradient of 0.032 feet per foot. Free product was present in monitoring wells MW-8 and MW-14. CoC were detected in four monitoring wells above their respective SSTLs. Benzene was detected in one surface water sample at a concentration above the RBSL. The percent concentration reduction was calculated at 40.08%.

SEI Environmental, Inc recommends continuing the quarterly monitoring to evaluate the continued reduction of chemicals of concern in the monitoring wells on site. The next sampling event will occur in November 2007. In addition SEI recommends continuing AFVR events at monitoring wells MW-1 and MW-8 in conjunction with groundwater sample collection.

APPENDIX A
Figures



SCALE 1:24000



SALEM QUADRANGLE
 SOUTH CAROLINA-OCONEE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)
 BY U.S. GEOLOGICAL SURVEY

SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCER
 13527 Highway 11, Salem, SC
 FACILITY I.D. #03439

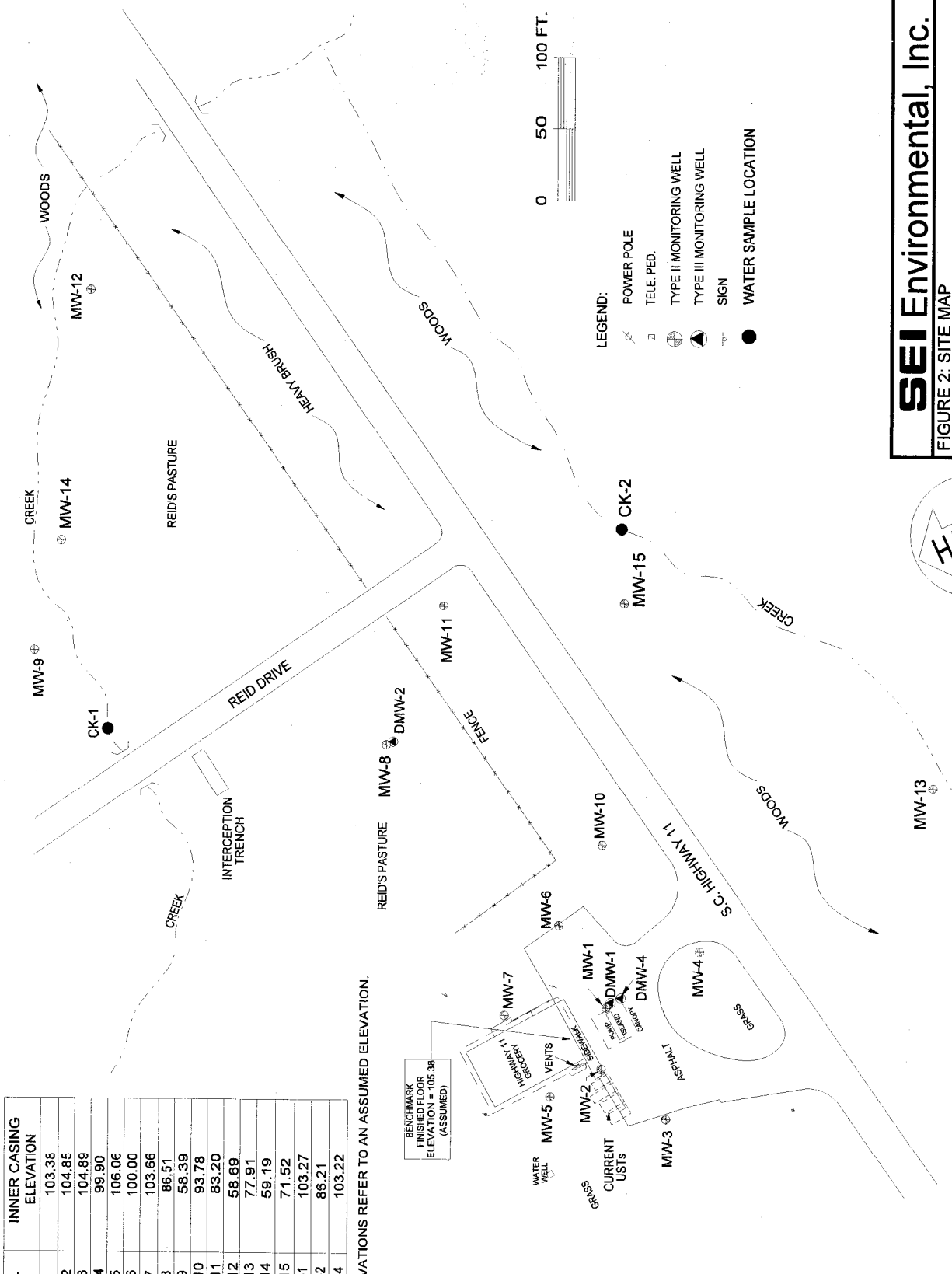
WO # 302169
 DWG # Hw 11_topo_sitemap

DATE: 9/16/05
 DRAWN BY: HWH

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043
 DWG #HI01692G

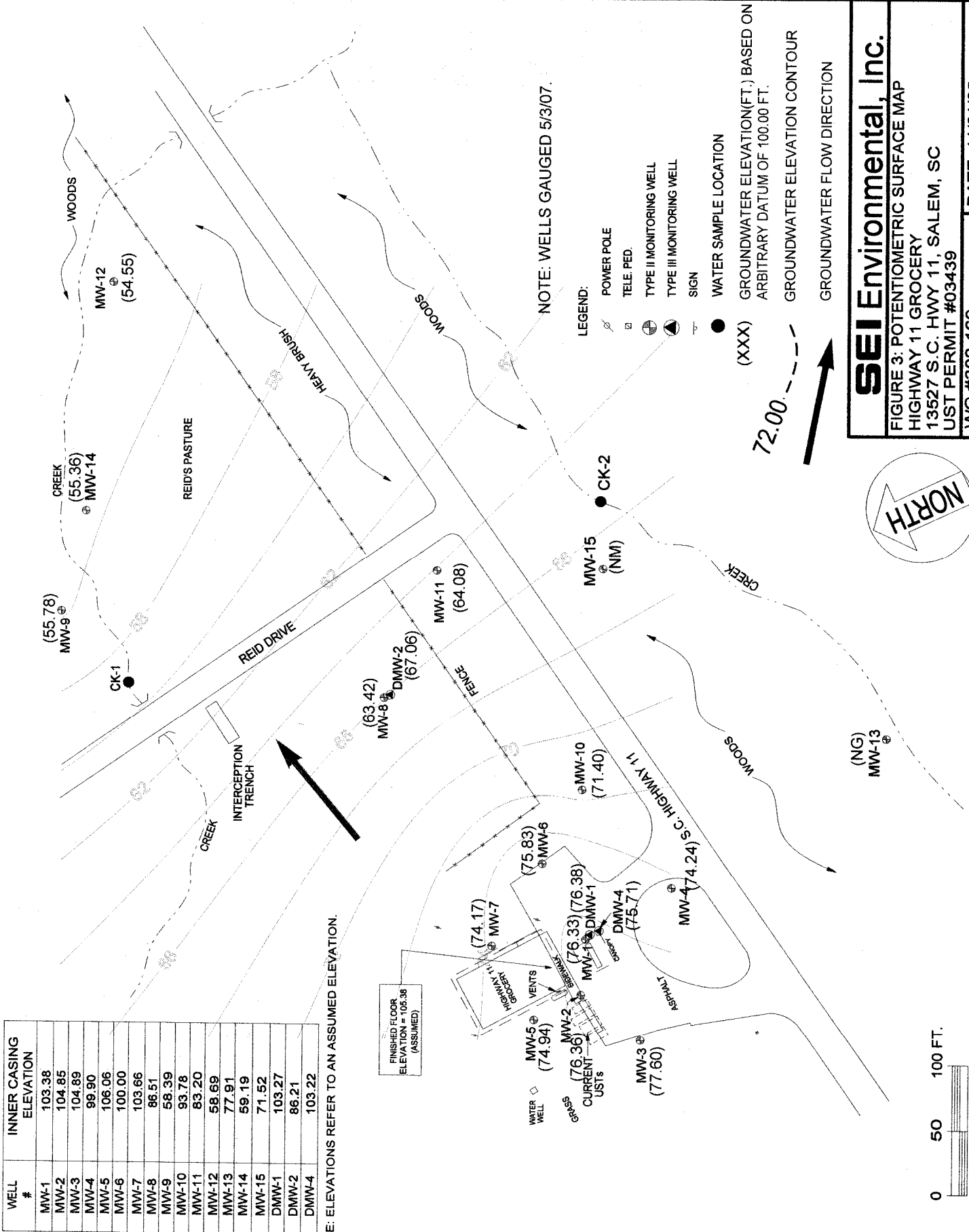
DATE: 3/17/05
 DRAWN BY: JCJ



WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

FINISHED FLOOR ELEVATION = 105.38 (ASSUMED)



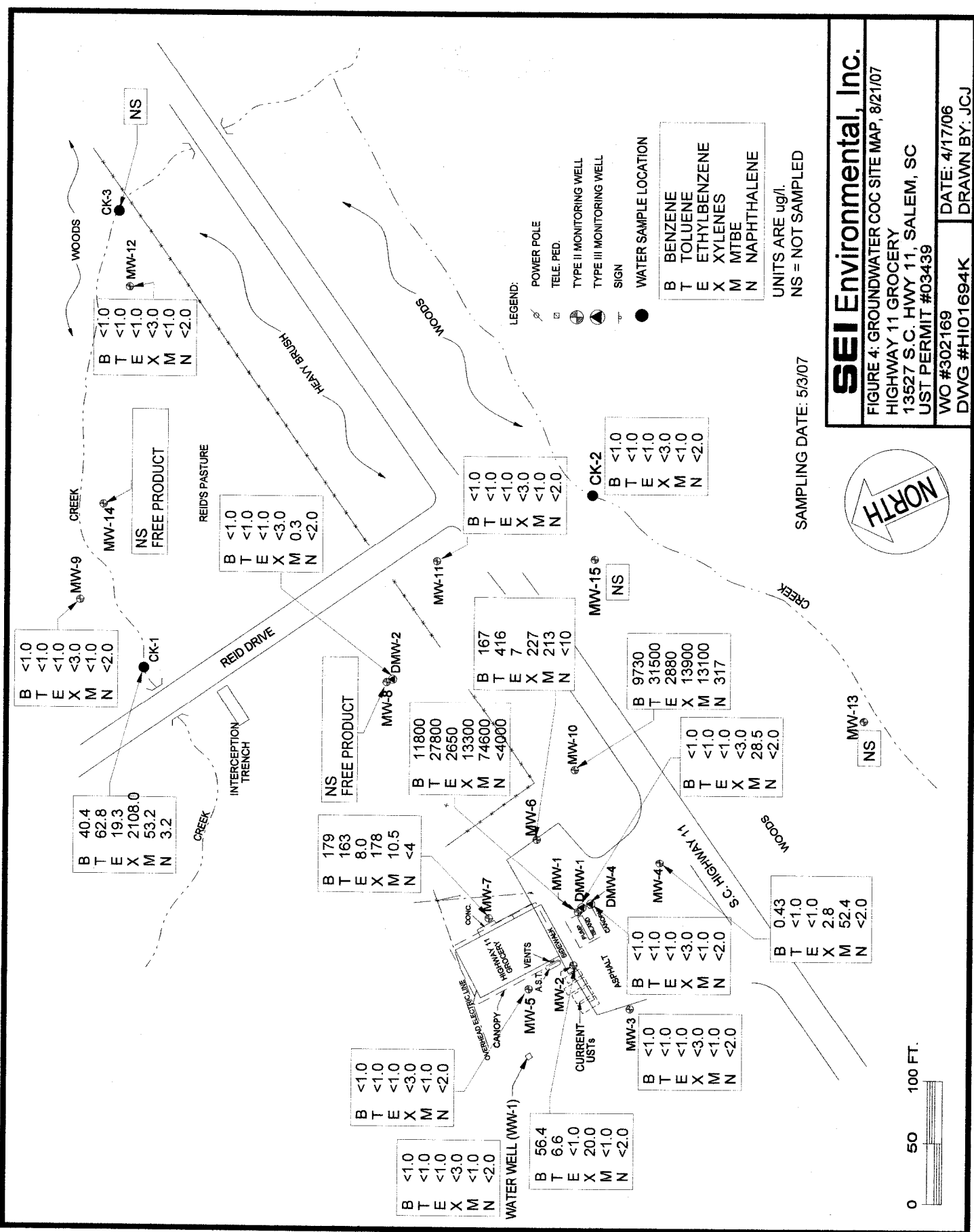
NOTE: WELLS GAUGED 5/3/07.

- LEGEND:
- ⊕ POWER POLE
 - ⊞ TELE. PED.
 - ⊕ TYPE II MONITORING WELL
 - ⊕ TYPE III MONITORING WELL
 - ⊞ SIGN
 - WATER SAMPLE LOCATION
 - (XXX) GROUNDWATER ELEVATION (FT.) BASED ON ARBITRARY DATUM OF 100.00 FT.
 - - - GROUNDWATER ELEVATION CONTOUR
 - GROUNDWATER FLOW DIRECTION

72.00

SEI Environmental, Inc.
 FIGURE 3: POTENTIOMETRIC SURFACE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-169
 DWG #HI01693L
 DATE: 11/01/05
 DRAWN BY: JCJ





LEGEND:

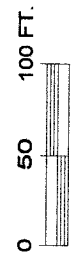
- ⊕ POWER POLE
- ⊞ TELE. PED.
- ⊕ TYPE II MONITORING WELL
- ⊕ TYPE III MONITORING WELL
- ⊞ SIGN
- WATER SAMPLE LOCATION

WATER SAMPLE LOCATION

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
M	MTBE
N	NAPHTHALENE

UNITS ARE ug/l.
NS = NOT SAMPLED

SAMPLING DATE: 5/3/07



SEI Environmental, Inc.

FIGURE 4: GROUNDWATER COC SITE MAP, 8/21/07
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

DATE: 4/17/06
DRAWN BY: JCJ

WO #302169
DWG #HI01694K

MW-9

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

CK-1

B	40.4
T	62.8
E	19.3
X	2108.0
M	53.2
N	3.2

MW-12

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

MW-14

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	0.3
N	<2.0

NS FREE PRODUCT

MW-8

B	179
T	163
E	8.0
X	178
M	10.5
N	<4

WATER WELL (WW-1)

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

MW-5

B	56.4
T	6.6
E	<1.0
X	20.0
M	<1.0
N	<2.0

MW-6

B	11800
T	27800
E	2650
X	13300
M	74600
N	<4000

MW-10

B	167
T	416
E	7
X	227
M	213
N	<10

MW-11

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

CK-2

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

MW-15

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

MW-1

B	9730
T	31500
E	2880
X	13900
M	13100
N	317

MW-3

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

MW-4

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

MW-13

B	0.43
T	<1.0
E	<1.0
X	2.8
M	52.4
N	<2.0

APPENDIX B
Tables

Table 1

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-1	05/08/02	24.67	24.71	0.04	103.38	78.74
	07/01/03	23.28	23.52	0.24		80.29
	07/30/03	22.89	22.97	0.08		80.55
	09/15/03	23.78	23.82	0.04		79.63
	10/02/03	24.32	24.45	0.13		79.16
	10/23/03	24.72	24.93	0.21		78.82
	12/18/03	24.06				79.32
	03/31/04	24.61				78.77
	09/29/04	24.20				79.18
	01/11/05	23.77				79.61
	03/17/05	23.97				79.41
	08/09/05	22.86				80.52
	11/01/05	25.20	25.13	0.07		78.23
	03/22/06	23.91				79.47
	08/28/06	27.17	26.64	0.53		76.62
	11/05/06	26.08	25.55	0.53		77.71
	02/07/07	24.30	24.14	0.16		79.20
	05/03/07	25.23				78.15
	08/21/07	27.05				76.33
	MW-2	05/08/02	26.08				104.85	78.77
07/01/03		24.08			80.77	
07/30/03		23.78			81.07	
09/15/03		24.73			80.12	
10/02/03		25.56			79.29	
10/23/03		25.71			79.14	
12/18/03		25.38			79.47	
03/31/04		25.85			79.00	
09/29/04		25.55			79.30	
01/11/05		24.74			80.11	
03/17/05		25.10			79.75	
08/09/05		23.70			81.15	
11/01/05		26.29			78.56	
03/22/06		25.94			78.91	
08/28/06		28.33			76.52	
11/05/06		27.39			77.46	
02/07/07		25.47			79.38	
05/03/07		26.34			78.51	
08/21/07		28.49			76.36	
MW-3		05/08/02	24.78			104.86		80.08
	07/01/03	22.51			82.35	
	07/30/03	22.21			82.65	
	09/15/03	23.23			81.63	
	10/02/03	23.87			80.99	
	10/23/03	24.23			80.63	
	12/18/03	23.93			80.93	
	03/31/04	24.44			80.42	
	09/29/04	24.20			80.66	
	01/11/05	23.36			81.50	
	03/17/05	23.65			81.21	
	08/09/05	22.11			82.75	
	11/01/05	24.85			80.01	
	03/22/06	24.57			80.29	
	08/28/06	26.95			77.91	
	11/05/06	26.05			78.81	
	02/07/07	24.15			80.71	
	05/03/07	25.03			79.83	
	08/21/07	27.26			77.60	
	MW-4	05/08/02	23.38				99.90	76.52
07/01/03		22.10			77.80	
07/30/03		22.09			77.81	
09/15/03		22.90			77.00	
10/02/03		23.32			76.58	
10/23/03		23.69			76.21	
12/18/03		22.95			76.95	
03/31/04		23.49			76.41	
09/29/04		23.14			76.76	
01/11/05		22.70			77.20	
03/17/05		22.84			77.06	
08/09/05		26.40			73.50	
11/01/05		27.27			72.63	
03/22/06		23.42			76.48	
08/28/06		25.39			74.51	
11/05/06		24.11			75.79	
02/07/07		22.96			76.94	
05/03/07		23.88			76.02	
08/21/07		25.66			74.24	

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-5	05/08/02	28.82			106.06	77.24
	07/01/03	26.82				79.24
	07/30/03	26.53				79.53
	09/15/03	27.40				78.66
	10/02/03	27.92				78.14
	10/23/03	28.40				77.66
	12/18/03	28.40				77.66
	03/31/04	28.56				77.50
	09/29/04	28.46				77.60
	01/11/05	27.41				78.65
	03/17/05	27.86				78.20
	08/09/05	20.02				86.04
	11/01/05	28.91				77.15
	03/22/06	28.59				77.47
	08/28/06	31.06				75.00
	11/05/06	30.40				75.66
	02/07/07	28.30				77.76
	05/03/07	28.90				77.16
08/21/07	31.12			74.94		
MW-6	05/08/02	21.66			100.00	78.34
	07/01/03	19.77				80.23
	07/30/03	19.88				80.12
	09/15/03	20.63				79.37
	10/02/03	21.34				78.66
	10/23/03	21.74				78.26
	12/18/03	21.00				79.00
	03/31/04	21.71				78.29
	09/29/04	21.33				78.67
	01/11/05	20.81				79.19
	03/17/05	20.10				79.90
	08/09/05	26.18				73.82
	11/01/05	22.41				77.59
	03/22/06	21.77				78.23
	08/28/06	23.86				76.14
	11/05/06	22.71				77.29
	02/07/07	21.13				78.87
	05/03/07	22.23				77.77
08/21/07	24.17			75.83		
MW-7	05/08/02	28.12			103.66	75.54
	07/01/03	26.55				77.11
	07/30/03	26.22				77.44
	09/15/03	26.83				76.83
	10/02/03	27.69				75.97
	10/23/03	28.10				75.56
	12/18/03	27.71				75.95
	03/31/04	28.00				75.66
	09/29/04	27.60				76.06
	01/11/05	26.88				76.78
	03/17/05	27.83				75.83
	08/09/05	20.27				83.39
	11/01/05	28.63				75.03
	03/22/06	N/L				N/L
	08/28/06	30.43				73.23
	11/05/06	29.56				74.10
	02/07/07	27.41				76.25
	05/03/07	28.35				75.31
08/21/07	29.49			74.17		
MW-8	05/08/02	21.00			86.51	65.51
	07/01/03	20.96				65.55
	07/30/03	20.46				66.05
	09/15/03	21.17				65.34
	10/02/03	20.44				66.07
	10/23/03	21.54				64.97
	12/18/03	20.82				65.69
	03/31/04	21.35				65.16
	09/29/04	21.10				65.41
	01/11/05	21.04				65.47
	03/17/05	20.95				65.56
	08/09/05	22.16				64.35
	11/01/05	23.31				63.20
	03/22/06	22.00	21.23	0.77		65.11
	08/28/06	24.46	22.05	2.41		63.93
	11/05/06	NM				
	02/07/07	NM				
	05/03/07	NM				
08/21/07	26.61	22.10	4.51	63.42		

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-9	05/08/02	2.47			58.39	55.92
	07/01/03	2.30				56.09
	07/30/03	2.26				56.13
	09/15/03	2.42				55.97
	10/02/03	2.16				56.23
	10/23/03	2.42				55.97
	12/18/03	2.20				56.19
	03/31/04	2.56				55.83
	09/29/04	1.90				56.49
	01/11/05	2.23				56.16
	03/17/05	2.11				56.28
	08/09/05	2.04				56.35
	11/01/05	2.33				56.06
	03/22/06	2.23				56.16
	08/28/06	2.50				55.89
	11/05/06	2.38				56.01
	02/07/07	2.36				56.03
05/03/07	2.50			55.89		
08/21/07	2.61			55.78		
MW-10	05/08/02	20.04			93.78	73.74
	07/01/03	16.20				77.58
	07/30/03	18.95				74.83
	09/15/03	16.53				77.25
	10/02/03	20.19				73.59
	10/23/03	20.51				73.27
	12/18/03	19.83				73.95
	03/31/04	18.85				74.93
	09/29/04	20.02				73.76
	01/11/05	19.47				74.31
	03/17/05	18.84				74.94
	08/09/05	18.94				74.84
	11/01/05	21.07				72.71
	03/22/06	20.16				73.62
	08/28/06	22.16				71.62
	11/05/06	20.94				72.84
	02/07/07	19.65				74.13
05/03/07	20.57			73.21		
08/21/07	22.38			71.40		
MW-11	05/08/02	16.22			83.20	66.98
	07/01/03	16.53				66.67
	07/30/03	16.70				66.50
	09/15/03	17.35				65.85
	10/02/03	16.40				66.80
	10/23/03	17.83				65.37
	12/18/03	17.58				65.62
	03/31/04	16.21				66.99
	09/29/04	15.92				67.28
	01/11/05	15.93				67.27
	03/17/05	16.86				66.34
	08/09/05	15.80				67.40
	11/01/05	18.22				64.98
	03/22/06	17.28				65.92
	08/28/06	19.09				64.11
	11/05/06	17.79				65.41
	02/07/07	16.44				66.76
05/03/07	17.67			65.53		
08/21/07	19.12			64.08		
MW-12	05/08/02	2.80			58.69	55.89
	07/01/03	3.16				55.53
	07/30/03	2.55				56.14
	09/15/03	3.26				55.43
	10/02/03	2.60				56.09
	10/23/03	3.50				55.19
	12/18/03	2.97				55.72
	03/31/04	3.19				55.50
	09/29/04	3.02				55.67
	01/11/05	3.10				55.59
	03/17/05	3.12				55.57
	08/09/05	2.72				55.97
	11/01/05	3.63				55.06
	03/22/06	3.23				55.46
	08/28/06	3.84				54.85
	11/05/06	3.48				55.21
	02/07/07	3.15				55.54
05/03/07	3.69			55.00		
08/21/07	4.14			54.55		

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-13	05/08/02	6.29			77.72	71.43
	07/01/03	6.44				71.28
	07/30/03	N/L				N/L
	09/15/03	6.36				71.36
	10/02/03	6.24				71.48
	10/23/03	6.78				70.94
	12/18/03	7.51				70.21
	03/31/04	6.62				71.10
	09/29/04	6.28				71.44
	01/11/05	6.44				71.28
	03/17/05	6.52				71.20
	08/09/05	10.52				67.20
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	N/L				N/L
	02/07/07	N/L				N/L
	05/03/07	N/L				N/L
	08/21/07	N/L				N/L
MW-14	05/08/02	2.00			59.19	57.19
	07/01/03	2.28				56.91
	07/30/03	2.03				57.16
	09/15/03	2.42				56.77
	10/02/03	1.98				57.21
	10/23/03	2.67				56.52
	12/18/03	1.58				57.61
	03/31/04	2.03				57.16
	09/29/04	1.77				57.42
	01/11/05	1.92				57.27
	03/17/05	2.14				57.05
	08/09/05	1.75				57.44
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	3.36				55.83
	11/05/06	N/L				N/L
	02/07/07	N/L				N/L
	05/03/07	2.94				56.25
08/21/07	3.85	3.82	0.03	55.36		
MW-15	05/08/02	10.82			71.52	60.70
	07/01/03	10.76				60.76
	07/30/03	10.11				61.41
	09/15/03	11.00				60.52
	10/02/03	10.20				61.32
	10/23/03	11.07				60.45
	12/18/03	11.88				59.64
	03/31/04	11.02				60.50
	09/29/04	10.67				60.85
	01/11/05	10.83				60.69
	03/17/05	10.61				60.91
	08/09/05	10.68				60.84
	11/01/05	11.32				60.20
	03/22/06	NG				NG
	08/28/06	11.62				59.90
	11/05/06	NM				NM
	02/07/07	NM				NM
	05/03/07	NM				NM
05/03/07	DRY			DRY		

Historical Groundwater Elevation And Product Thickness Data
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
DMW-1	05/08/02	23.88			103.27	79.39
	07/01/03	23.61				79.66
	07/30/03	24.24				79.03
	09/15/03	24.60				78.67
	10/02/03	24.00				79.27
	10/23/03	24.50				78.77
	12/18/03	24.11				79.16
	03/31/04	23.61				79.66
	09/29/04	22.72				80.55
	01/11/05	22.97				80.30
	03/17/05	24.68				78.59
	08/09/05	22.66				80.61
	11/01/05	25.11				78.16
	03/22/06	24.71				78.56
	08/28/06	26.95				76.32
	11/05/06	25.85				77.42
	02/07/07	24.59				78.68
05/03/07	24.93			78.34		
08/21/07	26.89			76.38		
DMW-2	05/08/02	17.83			86.21	68.38
	07/01/03	16.67				69.54
	07/30/03	17.20				69.01
	09/15/03	17.31				68.90
	10/02/03	16.80				69.41
	10/23/03	17.63				68.58
	12/18/03	17.11				69.10
	03/31/04	15.75				70.46
	09/29/04	16.49				69.72
	01/11/05	16.44				69.77
	03/17/05	17.22				68.99
	08/09/05	16.71				69.50
	11/01/05	18.08				68.13
	03/22/06	17.40				68.81
	08/28/06	18.72				67.49
	11/05/06	18.00				68.21
	02/07/07	18.93				67.28
05/03/07	18.81			67.40		
08/21/07	19.15			67.06		
DMW-4	05/08/02	24.30			103.22	78.92
	07/01/03	23.93				79.29
	07/30/03	24.75				78.47
	09/15/03	24.95				78.27
	10/02/03	24.45				78.77
	10/23/03	24.95				78.27
	12/18/03	24.39				78.83
	03/31/04	23.88				79.34
	09/29/04	23.18				80.04
	01/11/05	23.32				79.90
	03/17/05	25.08				78.14
	08/09/05	22.96				80.26
	11/01/05	26.51				76.71
	03/22/06	25.00				78.22
	08/28/06	27.33				75.89
	11/05/06	26.39				76.83
	02/07/07	24.59				78.63
05/03/07	25.48			77.74		
08/21/07	25.48			77.74		

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-1	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
	07/01/03	10,000	34,000	4,400	23,000	34,000	1,200			106,600.00
	07/30/03	7,600	28,000	6,300	32,000	25,000.0	2,500			101,400.00
	12/18/03	2,200	6,200	910	5,800	16,000	2,600			33,610.00
	03/31/04	3,400	9,300	1,100	6,200	20,000	1,200			41,200.00
	09/29/04	3,200	7,300	<1,000	4,500	12,000	<5,000			27,000.00
	03/17/05	5,600	9,560	1,570	7,610	19,300	326			43,955.00
	08/09/05	16,900	42,600	3,520	19,000	115,000	705			197,725.00
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/22/06	20,700	41,100	3,100	11,700	103,000	<4,000			179,600.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.16		906,310.00
	05/03/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00
08/21/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00	
SSTL	22	4,497	3,148	44,969	180	112				
> SSTL	11,778.0	23,303.0	0.0	0.0	74,420.0	0.0				
MW-2	05/07/02	13	8.0	1.0	5.0	5.0	5.0			37.00
	07/01/03	4.7	5.0	1.0	3.0	1.0	5.0			19.70
	07/30/03	5.8	5.0	1.0	5.3	1.0	5.0			23.10
	12/18/03	2.2	5.0	1.0	3.0	1.0	5.0			17.20
	03/31/04	2.6	5.0	1.0	3.0	1.0	5.0			17.60
	09/29/04	14	<25	<5.0	<15	<5.0	<25			14.00
	03/17/05	13	5	<1.0	5	<1.0	<2.0			22.40
	08/09/05	39.7	14.5	1.2	27.5	<1.0	<2.0			82.90
	11/01/05	3.8	1.6	<1.0	<3.0	<1.0	<2.0			5.40
	03/22/06	11.8	4.2	<1.0	3.4	<1.0	<2.0			19.40
	08/28/06	32.0	3.1	<1.0	4.5	<1.0	<2.0			39.60
	08/28/06	8.2	<1.0	<1.0	<3	<1.0	<2.0			8.20
	02/07/07	6.9	2.1	<1.0	3.4	<1.0	<2.0			12.40
	05/03/07	16.0	3.5	<1.0	5.4	<1.0	<2.0			23.90
08/21/07	56.4	6.6	<1.0	20.0	<1.0	<2.0			83.00	
SSTL	13	8.0	1.0	5.0	5.0	5.0				
> SSTL	43.4	0.0	0.0	15.0	0.0	0.0				
MW-3	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.4	<1.0	<3.0	<1.0	<2.0			1.40
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.4	0.0	0.0	0.0	0.0				
MW-4	05/07/02	1,500	5,320	620	3,360	810	500			12,110.00
	07/01/03	4,800	14,000	2,300	12,000	12,000	2,600			47,700.00
	07/30/03	4,000	14,000	2,700	13,000	2,100	500			36,300.00
	12/18/03	1,100	2,400	230	1,900	1,200	250			7,080.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	53	<25	7.1	70	210	<25			340.10
	03/17/05	<1.0	<1.0	<1.0	<3.0	17	<2.0			16.80
	08/09/05	<1.0	<1.0	<1.0	<3.0	5.9	<2.0			5.90
	11/01/05	3,720	3,660	745	4,170	4,540	<200			16,835.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.2	<2.0			1.20
	08/28/06	43	7	4	88	153.0	3.6			298.70
	11/05/06	195	24	19	164	225.0	11.6			638.90
	02/07/07	25	59	13	67	47.1	<2.0			
	05/03/07	95	120	39	199	56.3	8.1			517.30
08/21/07	0	<1.0	<1.0	3	52.4	<2.0			55.63	
SSTL	1,500	5,320	620	3,360	810	500.0				
> SSTL	0	0.0	0	0	0	0.0				

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-5	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	4.2	17.0	3.6	18.0	2.2	<5.0			45.00
	12/18/03	2.3	<5.0	<1.0	3.2	1.3	<5.0			6.80
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-6	05/07/02	1,780	4,950	490	2,880	6,350	500.0			16,950.00
	07/01/03	2,200	6,600	820	4,400	12,000	2,500			28,520.00
	07/30/03	4,200	13,000	1,600	8,900	21,000	400			49,100.00
	12/18/03	5,100	14,000	1,700	11,000	19,000	2,500			53,300.00
	03/31/04	280	840	100	2,200	900	250			4,570.00
	09/29/04	2,400	<5,000	<1,000	<3,000	17,000	<5,000			19,400.00
	03/17/05	3,490	7,500	952	5,380	15,500	262			33,084.00
	08/09/05	1,370	4,630	295	2,220	7,640	<400			16,155.00
	11/01/05	979	2,220	282	1,810	9,410	<200			14,701.00
	03/22/06	1,280	3,480	399	2,880	8,600	<200			16,639.00
	08/28/06	99	76	<2.0	243	22	<4.0			439.60
	11/05/06	34.0	60.9	<2.0	194	355	<20			643.90
	02/07/07	4,970.0	18,100.0	2,070	12,000	30,500	<500			67,640.00
	05/03/07	1,600.0	5,430.0	672	4,060	11,000	<1000			22,762.00
	08/21/07	167.0	416.0	7	227	213	<10			1,029.80
SSTL	1,780	4,950	490	2,880	6,350	500.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-7	05/07/02	34	20	<1.0	8.0	7.0	<5.0			69.00
	07/01/03	37	36	1.7	20	9.2	<5.0			103.90
	07/30/03	18	18	<1.0	10	<1.0	<5.0			45.70
	12/18/03	41	20	<1.0	<3.0	<1.0	<5.0			61.00
	03/31/04	30	34	<1.0	16	<1.0	<5.0			80.00
	09/29/04	370	500	<100	<300	<100	<500			870.00
	03/17/05	505	590	34	280	65	<2.0			1,473.40
	08/09/05	52	56	2.6	34	9.2	<2.0			154.00
	11/01/05	27	42	3.7	24	<1.0	<2.0			96.10
	03/22/06	Not Sampled								
	08/28/06	99	95	3.6	127	7	<2.0			331.90
	11/05/06	50	44.5	<1.0	23.5	1.9	<2.0			119.90
	02/07/07	182	261.0	12.8	202.0	18.7	<2.0			676.50
	05/03/07	132	104.0	8.2	104.0	8.5	<10.0			356.70
	08/21/07	179	163.0	8.0	178.0	10.5	<4.0			538.50
SSTL	22	20	1.0	8.0	7.0	5.0				
> SSTL	157.0	143.0	7.0	170.0	3.5	0.0				
MW-8	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
	07/01/03	12,000	51,000	7,800	40,000	11,000	2,500			124,300.00
	07/30/03	12,000	40,000	3,600	18,000	15,000	680			89,260.00
	12/18/03	10,000	27,000	3,300	18,000	14,000	2,500			74,800.00
	03/31/04	17,000	140,000	32,000	180,000	8,600	<25,000			377,600.00
	09/29/04	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/17/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	08/09/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/22/06	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	2.41		906,310.00
	11/05/06	44,390	26,540	3,700	21,680	173,000	637,000	NM		906,310.00
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.89		906,310.00
	05/03/07	44,390	26,540	3,700	21,680	173,000	637,000	NM		906,310.00
	08/21/07	226,000	301,000	280,000	278,000	5,110,000	2,000	4.51		6,197,000.00
SSTL	204	40,888	28,622	278,000	1,362	1,021				
> SSTL	44,186.0	0.0	0.0	0.0	171,638.0	635,979.0				

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-9	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	1.2	8.8	<1.0	<5.0			10.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.5	<1.0	<3.0	<1.0	<2.0			1.50
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
MW-10	05/07/02	115	185	68.0	328	86	9.0			791.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	170	420	43	240	540	6.5			1,419.50
	12/18/03	89	280	74	480	91	25.0			1,039.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	1.7	4.4	<1.0	<3.0	18	<2.0			24.00
	11/01/05	10,000	23,500	1,410	7,510	21,600	<1,000			64,020.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	79	98	16	69	169	<2.0			430.90
	11/05/06	203	412	67	226	137	4.7			1,049.90
	02/07/07	376	1,080	454	2,440	507	82.8			4,939.80
	05/03/07	1,990	4,990	846	4,420	1,770	136.0			14,152.00
08/21/07	9,730	31,500	2,880	13,900	13,100	317.0			71,427.00	
SSTL	115	185	68	328	86	9.0				
> SSTL	9,615.0	31,315.0	2,812.0	13,572.0	13,014.0	308.0				
MW-11	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	42.2	<1.0	<1.0	93.6	4.5	3.8			144.10
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.9	<2.0			1.90
	08/28/06	6.4	<1	<1	82.6	4.4	2.5			95.90
	11/05/06	2.8	<1	<1	8.9	4.7	<2.0			16.40
	02/07/07	<1	<1	<1	8.9	1.1	<2.0			10.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
08/21/07	2	<1.0	<1.0	9	6	<2.0			17.00	
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	1.0	0.0	0.0	0.0	0.8	0.0				
MW-12	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	1.5	24.8	10.1	58.6	<1.0	11.3			106.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL	5.0	1,000	700	10,000	40	25				

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-13	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	NS	NS	NS	NS	NS	NS			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
08/21/07	NS	NS	NS	NS	NS	NS			0.00	
RBSL		5.0	1,000	700	10,000	40	25			
MW-14	05/07/02	3,780	13,800	27,000	14,700	7,010	500			66,780.00
	07/01/03	3,500	10,000	1,900	10,000	5,300	500			31,200.00
	07/30/03	3,100	9,700	1,800	9,300	4,300	500			28,700.00
	12/18/03	3,300	11,000	2,000	11,000	4,100	500			31,900.00
	03/31/04	5,500	17,000	2,600	13,000	7,100	570			45,770.00
	09/29/04	3,200	12,000	1,600	9,100	3,200	<5,000			29,100.00
	03/17/05	5,140	13,000	1,710	10,900	4,970	339			36,059.00
	08/09/05	3,280	10,600	1,820	11,000	4,950	<400			31,660.00
	11/01/05	NL	NL	NL	NL	NL	NL			0.00
	03/22/06	NL	NL	NL	NL	NL	NL			0.00
	08/28/06	2,010.0	4,080.0	1,160.0	6,320.0	3,320.0	261.0			17,151.00
	11/05/06	NL	NL	NL	NL	NL	NL			0.00
	02/07/07	NL	NL	NL	NL	NL	NL			0.00
	05/03/07	3,640.0	11,700.0	1,960.0	10,600.0	5,340.0	527.0			33,757.00
08/21/07	226,000	301,000	280,000	278,000	5,110,000	2,000	0		6,197,000.00	
SSTL	5.0	1,000	700	10,000	40	25				11,770.00
> SSTL	225,995.0	300,000.0	279,300.0	268,000.0	5,109,960.0	1,975.0				
MW-15	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	NS	NS	NS	NS	NS	NS			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
08/21/07	NS	NS	NS	NS	NS	NS			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
DMW-1	05/07/02	215	430	50	50	1,780	250			2,775.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	4.2	<5.0			4.20
	12/18/03	1.5	<5.0	<1.0	<3.0	<1.0	<5.0			1.50
	03/31/04	<1.0	<15.0	<1.0	<3.0	3.9	<5.0			3.90
	09/29/04	8.4	<25	<5.0	<15	130	<25			138.40
	03/17/05	<1.0	1.2	<1.0	<3.0	8.1	<2.0			9.30
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<5.0	<5.0	<5.0	<15	<5.0	<10			0.00
	03/22/06	3.0	35.1	16	92.2	21.9	13.1			181.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	20.3	<2.0			20.30
	11/05/06	<1.0	<1.0	<1.0	<3.0	90.8	<2.0			90.80
	02/07/07	9.2	2.5	<1.0	9.7	164.0	<4.0			185.40
	05/03/07	<1.0	<1.0	<1.0	<3.0	5.2	<2.0			5.20
08/21/07	<1.0	<1.0	<1.0	<3.0	28.5	<2.0			28.50	
SSTL	215	430	50	50	1,780	250				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				

Table 2

**Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
DMW-2	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	6.4	<5.0			6.40
	07/30/03	<1.0	8.4	6.8	30.0	<1.0	6.7			51.90
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	0.3	<2.0			0.26
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
DMW-4	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
CK-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	2.6	<5.0	<1.0	4.8	4.5	<5.0			11.90
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	11	18	4.1	20.0	9.0	<5.0			62.10
	09/29/04	16	30	6.1	32.0	22.0	<5.0			106.10
	03/17/05	10.4	17.5	4.1	20.8	12.3	<2.0			65.10
	08/09/05	7.6	17.6	2.9	15.8	6.9	<2.0			50.80
	11/01/05	20.3	38.2	8.8	48.8	27.3	<2.0			143.40
	03/22/06	6.6	12.9	3.2	15.2	7.8	<2.0			45.70
	08/28/06	13.1	29.0	6.7	27.8	16.7	<2.0			93.30
	11/05/06	13.9	22.3	6.7	34.3	17.8	<2.0			95.00
	02/07/07	7.9	16.4	4.0	21.1	9.8	<2.0			59.20
	05/03/07	10.8	20.4	5.2	28.2	13.2	<2.0			77.80
	08/21/07	40.4	62.8	19.3	108.0	53.2	3.2			286.90
	RBSL	5.0	1,000	700	10,000	40	25			
CK-2	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
RBSL	5.0	1,000	700	10,000	40	25				

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
CK-3	08/09/05	14.4	33.3	7.1	41.1	25.8	<2.0			121.70
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	23.3	49.7	10.1	48.2	33.8	<2.0			165.10
	11/05/06	25.2	49.1	11.4	63.8	49.3	<2.0			198.80
	02/07/07	21.7	57.5	10.3	57.9	30.8	<2.0			178.20
	05/03/07	23.1	55.6	9.8	52.7	38.0	<2.0			179.20
	08/21/07	NS	NS	NS	NS	NS	NS			0.00
	RBSL	5.0	1,000	700	10,000	40	25			
WW-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	NS	NS	NS	NS	NS	NS			0.00
RBSL	5.0	1,000	700	10,000	40	25				
TOTAL MASS										7,306,101
TOTAL SSSL MASS		3,881	57,303	33,705	339,605	10,645	2,452		447,591	
INITIAL MASS ABOVE SSSL									12,046,007	
CURRENT MASS ABOVE SSSL									7,217,711	
PERCENT TOTAL MASS REDUCTION ABOVE SSSL									40.08	

Reported in parts per billion (µg/l)
 ND: Compound not detected
 BDL: Below analytical Detection Limits
 SSSL: Site Specific Treatment Level

APPENDIX C
Field Data Information Sheets for Groundwater Sampling

Conduct AFUR on MW-1
 Take all readings on system
 Every

8/21/07

SEI Environmental

Site Name: Hwy 11 Grocery WO# 300477

16:20
 16:30 *
 16:35
 16:35
 16:45
 17:15
 16:50
 *
 17:10
 10:00
 17:00 *
 10:15

Well ID	Total Depth (feet)	Well Dia. (In)	Depth to Product (feet)	Product Thickness (feet)	Depth to Water (feet)	Notes
MW-1	30	2			27.05	
MW-2	35	2			28.49	
MW-3	35	2			27.26	
MW-4	35	2			25.66	
MW-5	35	2			31.12	
MW-6	35	2			24.17	
MW-7	40	2			29.49	
MW-9	11	2			2.61	
MW-10	24	2			22.38	
MW-11	23	2			19.12	
MW-12	11	2			4.14	
MW-14	9	2	3.82		3.85	
DMW-1	45	2			26.89	
DMW-2	75	2			19.15	
DMW-4	61	2			27.51	
MW-15					Dry	
MW-8			22.10		26.61	
CK-2						
CK-1						

APPENDIX D
Laboratory Analytical Results and Chain-of-Custody



IT'S ALL IN THE CHEMISTRY

09/12/07

Technical Report for

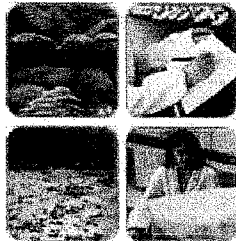
SEI-Columbia, SC

Hwy 11 Grocery; Salem, SC

302043

Accutest Job Number: F52021

Sampling Dates: 08/20/07 - 08/21/07



Report to:

SEI Environmental-Raleigh

cboggs@sei-environmental.com

ATTN: Chris Boggs

Total number of pages in report: 24



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

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

SEI-Columbia, SC

Job No: F52021

Hwy 11 Grocery; Salem, SC
Project No: 302043

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F52021-1	08/20/07	16:20 HP	08/23/07	AQ	Ground Water	MW-2
F52021-2	08/20/07	16:30 HP	08/23/07	AQ	Ground Water	MW-3
F52021-3	08/20/07	16:35 HP	08/23/07	AQ	Ground Water	MW-4
F52021-4	08/20/07	16:25 HP	08/23/07	AQ	Ground Water	MW-5
F52021-5	08/20/07	16:45 HP	08/23/07	AQ	Ground Water	MW-6
F52021-6	08/20/07	17:15 HP	08/23/07	AQ	Ground Water	MW-7
F52021-7	08/20/07	16:50 HP	08/23/07	AQ	Ground Water	MW-10
F52021-8	08/20/07	17:00 HP	08/23/07	AQ	Ground Water	DMW-4
F52021-9	08/20/07	17:10 HP	08/23/07	AQ	Ground Water	DMW-1
F52021-10	08/21/07	10:00 HP	08/23/07	AQ	Ground Water	DMW-2
F52021-11	08/21/07	10:15 HP	08/23/07	AQ	Ground Water	CK-2
F52021-12	08/21/07	11:35 HP	08/23/07	AQ	Ground Water	MW-9
F52021-13	08/21/07	11:50 HP	08/23/07	AQ	Ground Water	MW-12

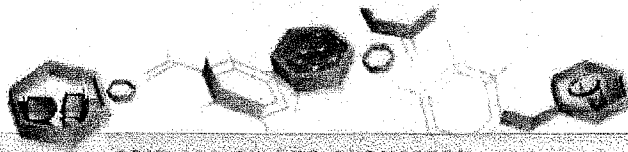
Sample Summary (continued)

SEI-Columbia, SC

Job No: F52021

Hwy 11 Grocery; Salem, SC
Project No: 302043

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F52021-14	08/21/07	11:10 HP	08/23/07	AQ	Ground Water	MW-11
F52021-15	08/21/07	12:30 HP	08/23/07	AQ	Ground Water	CK-1



IT'S ALL IN THE CHEMISTRY

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	08/20/07
Lab Sample ID:	F52021-1	Date Received:	08/23/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0021122.D	1	08/28/07	MM	n/a	n/a	VN897
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	56.4	1.0	0.20	ug/l	
108-88-3	Toluene	6.6	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	20.0	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID: MW-3	Date Sampled: 08/20/07
Lab Sample ID: F52021-2	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0021123.D	1	08/28/07	MM	n/a	n/a	VN897
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-4	Date Sampled:	08/20/07
Lab Sample ID:	F52021-3	Date Received:	08/23/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0021148.D	1	08/29/07	MM	n/a	n/a	VN898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.43	1.0	0.20	ug/l	J
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	2.8	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	52.4	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

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

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

Report of Analysis

Client Sample ID: MW-5	Date Sampled: 08/20/07
Lab Sample ID: F52021-4	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0021124.D	1	08/28/07	MM	n/a	n/a	VN897
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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

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

Report of Analysis

Client Sample ID: MW-6	Date Sampled: 08/20/07
Lab Sample ID: F52021-5	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0021166.D	5	08/29/07	MM	n/a	n/a	VN898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	167	5.0	1.0	ug/l	
108-88-3	Toluene	416	5.0	1.4	ug/l	
100-41-4	Ethylbenzene	6.8	5.0	1.0	ug/l	
1330-20-7	Xylene (total)	227	15	2.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	213	5.0	1.3	ug/l	
91-20-3	Naphthalene	ND	10	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-7	Date Sampled: 08/20/07
Lab Sample ID: F52021-6	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021956.D	2	08/29/07	MM	n/a	n/a	VM899
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	179	2.0	0.40	ug/l	
108-88-3	Toluene	163	2.0	0.54	ug/l	
100-41-4	Ethylbenzene	8.0	2.0	0.40	ug/l	
1330-20-7	Xylene (total)	178	6.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.5	2.0	0.50	ug/l	
91-20-3	Naphthalene	ND	4.0	0.88	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID: MW-9	Date Sampled: 08/21/07
Lab Sample ID: F52021-12	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021947.D	1	08/29/07	MM	n/a	n/a	VM899
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-10	Date Sampled:	08/20/07
Lab Sample ID:	F52021-7	Date Received:	08/23/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021930.D	100	08/28/07	MM	n/a	n/a	VM898
Run #2	M0021949.D	250	08/29/07	MM	n/a	n/a	VM899
Run #3	N0021178.D	500	08/30/07	MM	n/a	n/a	VN899

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9730	100	20	ug/l	
108-88-3	Toluene	31500 ^a	500	140	ug/l	
100-41-4	Ethylbenzene	2880	100	20	ug/l	
1330-20-7	Xylene (total)	13900	300	56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13100 ^b	250	63	ug/l	
91-20-3	Naphthalene	317	200	44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	103%	102%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	102%	99%	76-127%
2037-26-5	Toluene-D8	99%	100%	101%	86-112%
460-00-4	4-Bromofluorobenzene	100%	98%	92%	84-120%

(a) Result is from Run# 3

(b) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID: MW-11	
Lab Sample ID: F52021-14	Date Sampled: 08/21/07
Matrix: AQ - Ground Water	Date Received: 08/23/07
Method: SW846 8260B	Percent Solids: n/a
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021925.D	1	08/28/07	MM	n/a	n/a	VM898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2.2	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	9.2	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.8	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-12	Date Sampled:	08/21/07
Lab Sample ID:	F52021-13	Date Received:	08/23/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021924.D	1	08/28/07	MM	n/a	n/a	VM898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	DMW-1	Date Sampled:	08/20/07
Lab Sample ID:	F52021-9	Date Received:	08/23/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021920.D	1	08/28/07	MM	n/a	n/a	VM898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	28.5	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID: DMW-2	Date Sampled: 08/21/07
Lab Sample ID: F52021-10	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021921.D	1	08/28/07	MM	n/a	n/a	VM898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26	1.0	0.25	ug/l	J
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	CK-1	Date Sampled:	08/21/07
Lab Sample ID:	F52021-15	Date Received:	08/23/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021926.D	1	08/28/07	MM	n/a	n/a	VM898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	40.4	1.0	0.20	ug/l	
108-88-3	Toluene	62.8	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	19.3	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	108	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	53.3	1.0	0.25	ug/l	
91-20-3	Naphthalene	3.2	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Client Sample ID: CK-2	Date Sampled: 08/21/07
Lab Sample ID: F52021-11	Date Received: 08/23/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0021922.D	1	08/28/07	MM	n/a	n/a	VM898
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-8700 • FAX: 407-425-0707

ACCUTEST JOB #:
ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION						MATRIX CODES	
NAME: SET Environmental ADDRESS: 5100 Research Dr. Suite 5 CITY: Charlotte, N.C. 28206 STATE: ZIP: SEND REPORT TO: PHONE #: 704-596-9524			PROJECT NAME: Hwy 11 Grocery LOCATION: 13527 S.C. Hwy 11 Salem, S.C. PROJECT NO.: 302-043 FAX #: 704-596-8605				[Blank Analytical Information Columns]						MATRIX CODES: DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION						LAB USE ONLY			
		DATE	TIME	SAMPLED BY:	SEALER	TOP CAPTURE	ICE	IMPACT	SHAKE	STIR		OTHER		
1	MW-2	8/20/07	16:20	HP		GW	3	3						
2	MW-3	8/20/07	16:30											
3	MW-4	8/20/07	16:35											
4	MW-5	8/20/07	16:25											
5	MW-6	8/20/07	16:45											
6	MW-7	8/20/07	17:15											
7	MW-10	8/20/07	16:50											
8	DMW-4	8/20/07	17:00											
9	DMW-1	8/20/07	17:10											
10	DMW-2	8/21/07	10:00											
11	CX-2	8/21/07	10:15											

DATA TURNAROUND INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER <small>EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED</small>		APPROVED BY: _____ _____		DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____		COMMENTS/REMARKS _____ _____	
--	--	------------------------------------	--	---	--	---	--

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: _____ DATE TIME: 8/20/07 8:00 RECEIVED BY: 1. FX DATE TIME: _____	RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: 2. FX DATE TIME: 8/23/07 09:30	RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: 3. _____ DATE TIME: _____	RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: 4. _____ DATE TIME: _____
RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: 5. _____ DATE TIME: _____	SEAL # _____ PRESERVE WHEN APPLICABLE <input type="checkbox"/> ON ICE <input checked="" type="checkbox"/> TEMPERATURE 3.0 C		

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F52021 CLIENT: SET PROJECT: Hwy 11 Grassy
DATE/TIME RECEIVED: 8/23/07 09:30 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.0°C
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
AIRBILL NUMBERS: 8336 3067 9494

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
NUMBER OF 5035 FIELD KITS ? 0
NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: _____

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DOES NOT MATCH LABEL(S)
- ID'S ON COC DOES NOT MATCH LABEL(S)
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT
(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE J.O. 8/23/07 TECHNICIAN SIGNATURE/DATE J. B-23-07 ASBD 10/03/06

APPENDIX E
AFVR Data and Disposal Manifest

**SEI Environmental, Inc.
Enhanced Fluid Recovery (EFR) Field Log**

Project Name: Hwy 11 GROC
 Site Address: Hwy 11
 City, State: SALEM, SC
 Facility ID:
 Project Number: 8/21/07
 Date:
 Event Number:

Time	Extraction Wells	Vacuum (in/Hg) Extraction Well	Unit	Unit TEMP. F Wet	Unit TEMP. F Dry	STACK TEMP. F	PPM _{in} OVA Conc.	Flow FT/MIN	Flow FT/SEC	Magnehelic reading	
										Inches Water Upper Scale	Flow Lower Scale
0	MW-1	MW-1	75	79	79	134	3441	2500			
0.25			160	124	124	132	2032	2800			
0.5			166	132	132	132	2685	2600			
0.75			166	138	138	138	24635	2500			
1			168	138	138	138	24315	2500			
1.25			167	138	138	138	21109	2500			
1.5			167	138	138	138	22272	2500			
1.75			167	139	139	139	37091	2500			
2			167	139	139	139	29767	2500			
2.5			168	140	140	140	30184	2500			
3			168	140	140	140	24301	2500			
3.5			168	141	141	141	28177	2500			
4			168	141	141	141	37293	2500			
4.5	MW-8		173	143	143	143	47934	3500			
5			172	143	143	143	35534	3000			
5.5			172	145	145	145	37910	3000			
6			173	148	148	148	75008	3000			
6.5			175	150	150	150	31288	3000			
7			175	151	151	151	25672	3000			
7.5			175	151	151	151	20954	3000			
8			176	152	152	152	22375	3000			
8.5			176	151	151	151	26103	3000			
9			176	152	152	152	27412	3000			

Well #	Observation Wells Before Event		Observation Wells After Event		Change in GW Level	Field Comments:
	DTW	Prod. (ft)	DTW	Prod. (ft)		
MW-1	27.05					
MW-8	26.61	22.10	4.51			
						Personnel:
						Pump type (wet or dry):
						Coolant (oil, water, etc):
						Stack Diameter ID (in):
						Stack Diameter ID (ft):
						Stack Discharge Area (ft ²):
						Total Hours of This Event:
						Calibration Gas (FID):
						Total Gal. of Water:
						Cum. Gal. of Water:
						Methane



HAZ-MAT

TRANSPORTATION AND DISPOSAL
P.O. BOX 37392 • CHARLOTTE, N.C. 28237
(704) 332-5600
FAX (704) 375-7183

Manifest No. 28067
P.O. No. _____
Job No. _____

NON-HAZARDOUS SPECIAL WASTE

Section I. GENERATOR (Generator complete all of Section I)

GENERATOR LOCATION
NAME May 11 Grocery
ORIGINATING ADDRESS 17527 S.C. Hwy 11
MAILING ADDRESS _____
CITY Salem STATE SC. ZIP _____
PHONE NO. 704-516-5224
CONTACT NAME Scott Lucas
DATE OF WASTE: Petroleum Contact Water

WORK CONTRACTED BY
Bill To (If different from information at left)
NAME SEI Environmental
ADDRESS 500 Ransom Dr. Suite 5
CITY Charlotte STATE NC. ZIP 28205
PHONE NO. 704-516-5224
CONTACT NAME Scott Lucas

No.	Type	Units	Quantity

Section II. INVOICE INFORMATION **GALLONS DRUMS**

DESCRIPTION	QUANTITY	LINE TOTAL
1. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR AFVR	2500 gal	
2. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
3. SOLUBLE OILS OR COOLANTS PUMPED FROM STORAGE		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUM REMOVED - SOLID OR EMPTY		
6. 55-GALLON DRUM REMOVED - LIQUID		
7. _____		
10. ARRIVAL TIME: _____ DEPARTURE TIME: _____		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name Scott Lucas Signature Scott Lucas Shipment Date 08/22/07

Section III. TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

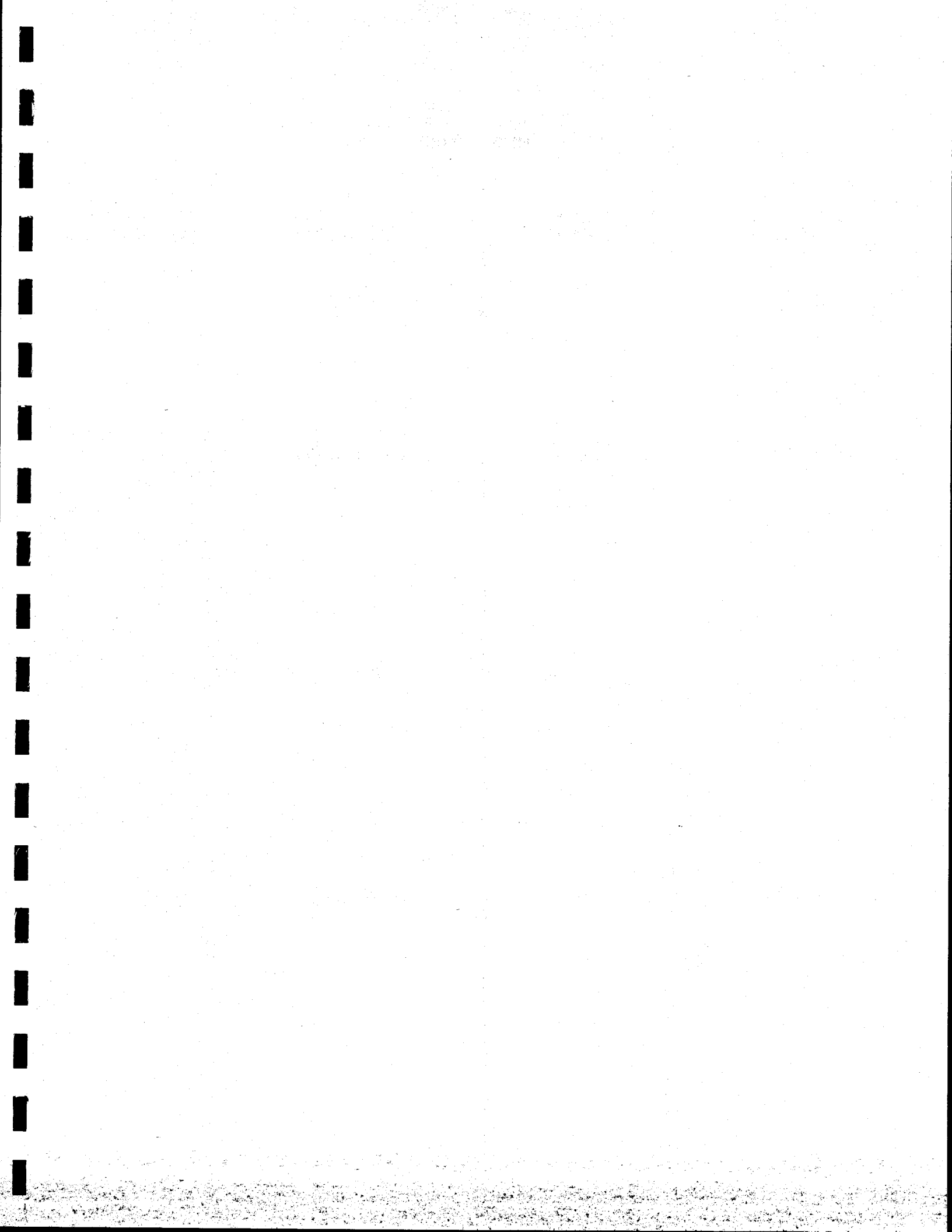
HAZ-MAT
TRANSPORTATION AND DISPOSAL
P.O. BOX 37392 • CHARLOTTE, N.C. 28237
a. Driver Name/Title _____
b. Phone No. _____ c. Truck No. _____
Hazardous Waste Transporter Permits
EPA NCR 000003186
EPA NCD048461370
Driver Signature _____ Shipment Date _____

TRANSPORTER II
e. Name SEI Environmental
f. Address 500 Ransom Dr. Suite 5
g. Driver Name/Title Scott Lucas
h. Phone No. 704-516-5224 i. Truck No. 302
j. Transporter II Permit Nos. _____
Driver Signature _____ Shipment Date 08/22/07

Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Haz-Mat Transportation & Disposal, Inc. a. Phone No. 704-332-5600
Physical Address: 210 Dalton Avenue b. Mailing Address: P.O. Box 37392
Charlotte, N.C. 28206 Charlotte, N.C. 28237

Discrepancy Indication Space _____
This is to certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners; (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation; (3) into the CMUO separation tower system under permit NJP#5011; (4) Sludges from treatment systems are hauled to EPA approved facilities for proper disposal. Manifest and certificate of disposal are on file.



RECEIVED

Joel
NOV 29 2007

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #03439

UNDERGROUND STORAGE
TANK PROGRAM

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, Steven Smith, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize SCDHEC, or a contractor selected by SCDHEC, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. The contractor(s) will be designated as my contractor for only the required site rehabilitation activities. Compensation to the contractor(s) will be from the SUPERB Account and I will have no obligation to pay the contractor(s). I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Bureau of Underground Storage Tank Management in writing.

Name of Facility Hwy 11 Grocery Phone # 864 944-0494

Street Address of Facility 13527 N Hwy 11

Town, City, District, Suburb Salem SC 29676

Name of nearest intersecting street, road, highway, alley
SC Hwy 11 / 130

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines Steven Smith
phone number 944-0494

Were underground storage tanks previously removed from the ground at this facility? (yes or no) NO

If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation _____
Phone number _____

Is the property currently leased or rented to someone? (yes or no) NO. If yes, please provide their name _____ and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of UST/property owner (Please Print): Steven Smith

Phone Number (home) _____ (work) 864 944 0494

Signature of UST/property Owner: Steven M Smith

Witness: Clairne C Lee

Date: 11 Month 28 Day 2007 Year

UST PROGRAM DOCKETING # 4



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received November 7, 2007
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The Program notes that the AFVR events conducted on monitoring wells MW-1 and MW-8 were effective in removing free-phase product based upon reported off-gas measurements. However, as product persists in MW-8 and has emerged in MW-14, continued AFVR events are warranted. Please have your contractor focus AFVR events on MW-8 and, in particular, MW-14 as this well is adjacent to the creek. Also, please include creek sample CK-3 in the sampling protocol since this location is downstream from MW-14.

Based upon the current data, the Program calculates a -1.42% reduction in total concentrations of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). Please note that the calculation uses the last known concentrations for MW-1, which was not sampled during the August 2007 monitoring event. The low reduction is a result of the emergence of free-phase product in MW-14.

The next CASE report documenting the December monitoring event and quarterly AFVR events is due on or before **February 1, 2008**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhcc.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

UST PROGRAM
DOCKETING # 5

JPP/jpp
03439.15

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite #108,
Raleigh, NC 27603 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)



2025 Progress Court
Raleigh, North Carolina 27608
800.474.7049
919.832.2535
Fax 832.5914

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FEB 11 2008

UNDERGROUND STORAGE
TANK PROGRAM

February 5, 2008

Mr. Joel P. Padgett, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Assessment & Corrective Action Section, Underground Storage Tank Program
2600 Bull Street
Columbia, South Carolina 29201

**RE: Corrective Action System Evaluation Report
Highway 11 Grocery
13527 North SC Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Dear Mr. Padgett:

Please find enclosed the quarterly Corrective Action System Evaluation (C.A.S.E) Report for the December 12, 2007 groundwater sampling event at the above referenced site. If you have any questions or comments, please contact me at (919) 832-2535.

Sincerely,
SEI Environmental, Inc.

A handwritten signature in black ink, appearing to read "Chris L. Boggs".

Chris L. Boggs, P.G.
Project Manager

cc: Mr. John Smith, Highway 11 Grocery

UST PROGRAM
LETING #

A handwritten signature in blue ink, appearing to be a stylized "L" or similar character.

CORRECTIVE ACTION SYSTEM EVALUATION REPORT
September 2007 through December 2007

Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina
Oconee County
UST Permit Number: 03439
SEI Project Number: 302169

PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina 29676-9801

PREPARED BY:

SEI ENVIRONMENTAL, INC.
130 Penmarc Drive, Suite 108
Raleigh, North Carolina
UST Site Rehabilitation Contractor No. 354

February 5, 2008

CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Submittal Date: February 5, 2008
For Period Covering: August 21, 2007
Facility Name: Highway 11 Grocery
UST Permit Number: 03439
County: Oconee
Latitude: N 35°54'26.02"

Monitoring Report Number: _____
to December 12, 2007
Street Address: 13527 North SC Highway 11
City: Salem, South Carolina
Zip Code: 27603
Longitude: W 82°58'31.29"
:

Submitted by UST Owner/Operator: _____

Prepared by Consultant/Contractor: _____

Name: Steve Smith
Company: Highway 11 Grocery
Address: 13527 North Highway 11
City: Salem State: SC
Zip Code: 29676-9801
Telephone: (864) 944-0494
SEI Project Number: 302169

Name: Chris L. Boggs
Company: SEI Environmental, Inc.
Address: 2025 Progress Place
City: Raleigh State: NC
Zip Code: 27608
Telephone: (919) 832-2535
UST Site Rehabilitation Contractor No. 354

Registered Professional Engineer or Professional Geologist Certification

I hereby certify that I have directed and supervised the fieldwork and preparation of this Plan, in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Chris L. Boggs
SC Reg. No. 2101
Signature: _____
Date: _____



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LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

This report has been prepared under the guidance of a Licensed Geologist registered in South Carolina to meet the requirements of the South Carolina Department of Health and Environmental Control. The information and conclusions expressed in this report are based upon normal standards of the profession and limited to information available at this time. Chemical analyses of the samples associated with this report were performed by a subcontracted, independent, and certified laboratory. All data have been reviewed for accuracy and, excepting obvious errors, have been accepted as correct. SEI Environmental, Inc. reserves the right to revise estimates of performances as required by changes in the data supplied by Accutest Laboratories.

1.0 INTRODUCTION

The Highway 11 Grocery is a convenience and retail fuel store located at 13527 North SC Highway 11 in Salem, Oconee County, South Carolina. Figure 1 in Appendix A is a portion of the United States Geological Survey (USGS) 7.5-minute topographical quadrangle map identifying the location of the site.

The following is a brief summary of recent events occurring at the site:

- December 18, 2003 – Groundwater Sampling Event
- March 31, 2004 – Groundwater Sampling Event
- September 29, 2004 – Groundwater Sampling Event
- January 11, 2005 – EFR performed on MW-8
- March 17, 2005 – EFR performed on MW-8
- March 17, 2005 – Groundwater Sampling Event
- August 9, 2005 – Groundwater Sampling Event
- November 1, 2005 – Groundwater Sampling Event
- March 22, 2006 – Groundwater Sampling Event
- August 28, 2006 – Groundwater Sampling Event
- November 5, 2006 – Groundwater Sampling Event
- February 7, 2007 – Groundwater Sampling Event
- May 3, 2007 - Groundwater Sampling Event
- August 21, 2007 – Groundwater Sampling Event
- December 12, 2007- Groundwater Sampling Event

On December 12, 2007, in accordance with the requirements of the PFP contract, samples were collected from sixteen groundwater monitoring wells and two surface locations. This report provides details of the groundwater sampling event.

2.0 FIELD MEASUREMENTS AND SAMPLING

2.1 Groundwater Sampling

On December 12, 2007, groundwater samples were collected from sixteen groundwater monitoring wells. Prior to sampling, groundwater depth was gauged in the monitoring wells utilizing an oil-water interface probe to measure depth to groundwater, and to detect any phase separated hydrocarbons (PSH) present. The depth to groundwater measurement is used to calculate the groundwater elevation used in determining the current groundwater potentiometric surface, along with hydraulic gradient, and groundwater flow direction.

Figure 3 in Appendix A presents a groundwater potentiometric map for the current sampling event. The latest groundwater data indicate that groundwater flow at the site is to the northeast with a hydraulic gradient of 0.032 feet per foot between monitoring wells MW-3 and MW-12. This flow direction is consistent with previous determinations of groundwater movement. Table 1 in Appendix B summarizes groundwater measurement data. Appendix C includes field observation data.

Representative groundwater samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

2.2 Surface Water Sampling

On December 12, 2007, two (CK-1 and CK-3) surface water samples were collected from adjacent creek. CK-2 location is no longer sampled per the March 17, 2005, sampling event report. CK-3 replaced CK-2 to monitor for potential contamination from monitoring well MW-14. Representative samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The

groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Analytical Results

SSTLs have been designated for fourteen (MW-1 through MW-8, MW-10, MW-11, MW-14, DMW-1, DMW-2, and DMW-4). Sixteen wells were sampled on December 12, 2007 and CoCs were detected in three (MW-7, MW-10, MW-11) monitoring wells at concentrations above their respective Site Specific Target Level (SSTL). Figure 4 in Appendix A is a site map presenting monitoring well location and their CoC concentrations. Table 2 in Appendix B summarizes historical groundwater analytical results. A copy of the laboratory report and completed chain-of-custody form is included in Appendix C.

3.2 Surface Water Analytical Results

Benzene was detected in surface water sample CK-1 at a concentration of 13.2 µg/L. MTBE was detected in surface water sample CK-3 at a concentration of 50.2 µg/L.

4.0 REMEDIATION SYSTEM EFFECTIVENESS

In awarding the Pay-For-Performance (PFP) site remediation contract, the South Carolina Department of Health and Environmental Control (SCDHEC) set remediation goals for this site via site specific target levels (SSTLs). The monitoring wells have individual target concentrations for five (benzene, toluene, ethylbenzene, xylenes, MTBE and naphthalene) identified chemicals of concern (CoC).

Remediation system effectiveness can be calculated comparing the initial May 7, 2002, CoC concentrations that exceeded the SSTLs with the current CoC concentrations that exceeded the SSTLs. For monitoring wells MW-1 and MW-8, the standard values for free product (benzene, 226,000 µg/L; toluene, 301,000 µg/L; ethylbenzene, 280,000 µg/L; xylenes, 278,000 µg/L; MTBE, 5,110,000 µg/L; and naphthalene 2,000 µg/L) were used in the percent reduction calculation. The formula is as follows:

$$\left[\frac{[08/29/96 \text{ Sample Concentration Above SSTL}] - [\text{Current Sample Concentration Above SSTL}]}{[08/29/96 \text{ Sample Concentration Above SSTL}]} \right] * 100 = \% \text{ Reduction}$$

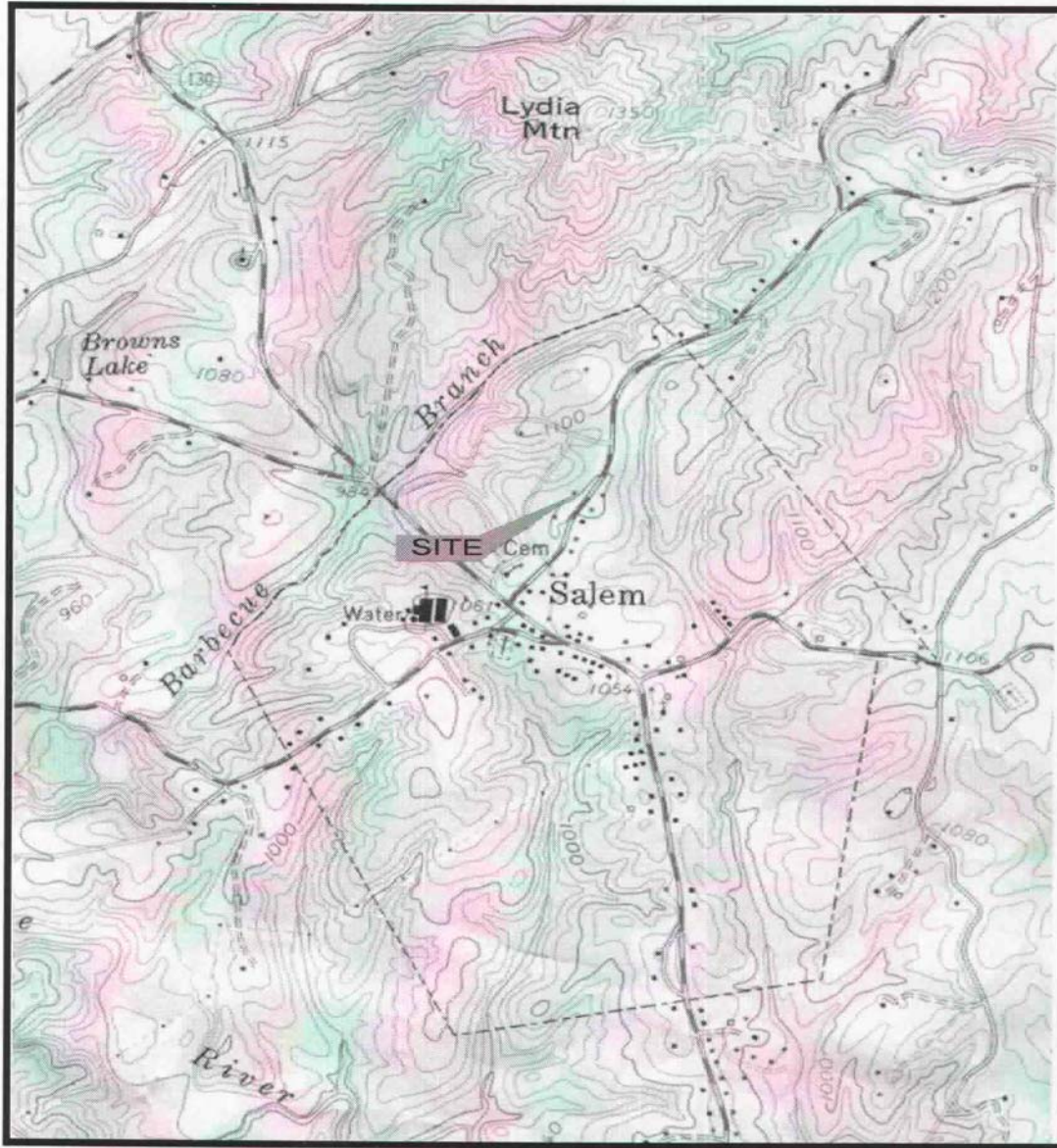
Using the current analytical results, the percent concentration reduction is 99.81%. Table 2 in Appendix B presents concentration reduction calculations.

5.0 CONCLUSIONS

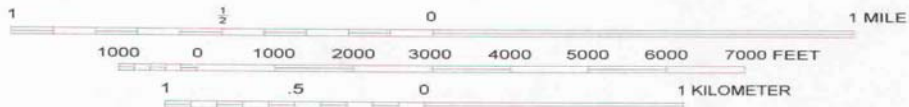
The groundwater flow direction at the time of the December 12, 2007 sampling event was towards the northeast with a hydraulic gradient of 0.032 feet per foot. Free product was present in monitoring wells MW-1, MW-8, and MW-14. CoCs were detected in three monitoring wells above their respective SSTLs. Benzene and MTBE were detected in CK-1 and CK-3 surface water samples at a concentration above the RBSL, respectively. The percent concentration reduction was calculated at 99.81%.

SEI Environmental, Inc recommends continuing the quarterly monitoring to evaluate the continued reduction of chemicals of concern in the monitoring wells on site. In addition SEI recommends continuing AFVR events at monitoring wells MW-1 and MW-8 in conjunction with groundwater sample collection.

APPENDIX A
Figures



SCALE 1:24000



SALEM QUADRANGLE
 SOUTH CAROLINA-OCONEE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)
 BY U.S. GEOLOGICAL SURVEY

SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCER
 13527 Highway 11, Salem, SC
 FACILITY I.D. #03439

WO # 302169
 DWG # Hw 11_topo_sitemap

DATE: 9/16/05
 DRAWN BY: HWH

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)



- LEGEND:
- POWER POLE
 - TELE. PED.
 - ⊕ TYPE II MONITORING WELL
 - ▲ TYPE III MONITORING WELL
 - SIGN
 - WATER SAMPLE LOCATION

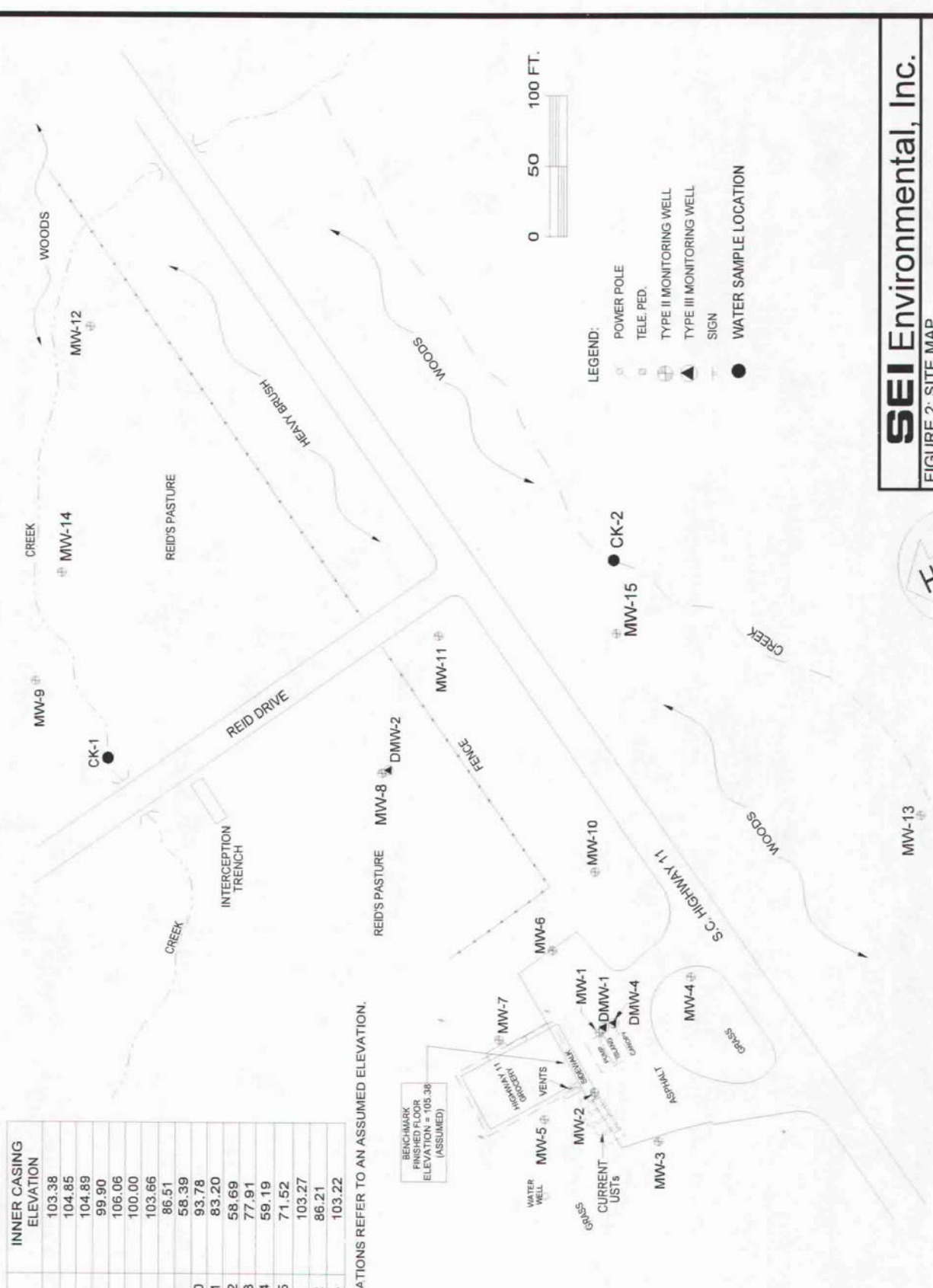


SEI Environmental, Inc.

FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #302-043
 DWG #HI01692G

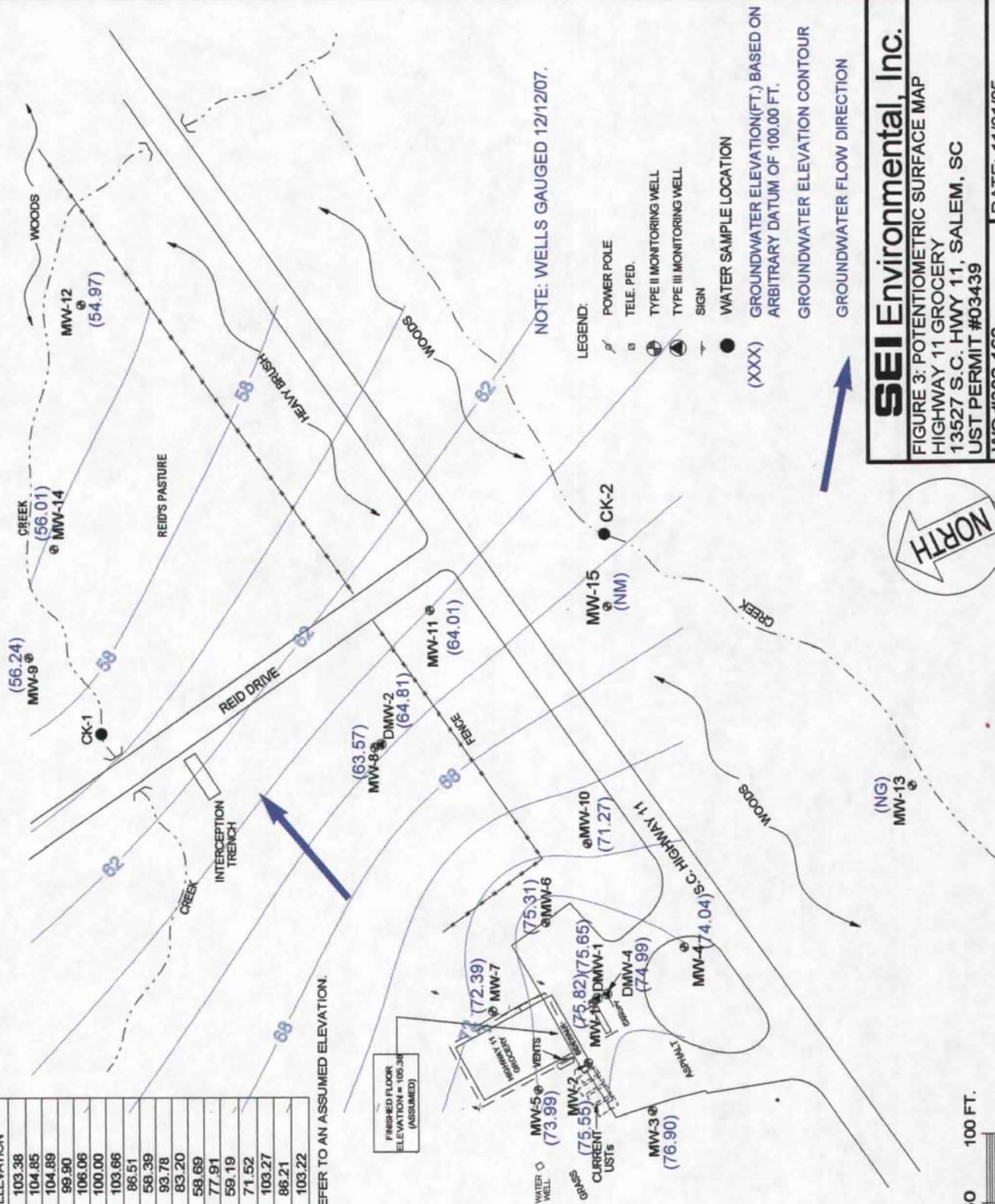
DATE: 3/17/05
 DRAWN BY: JCJ



WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.88
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

FINISHED FLOOR ELEVATION = 105.38 (ASSUMED)



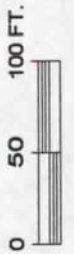
NOTE: WELLS GAUGED 12/12/07.

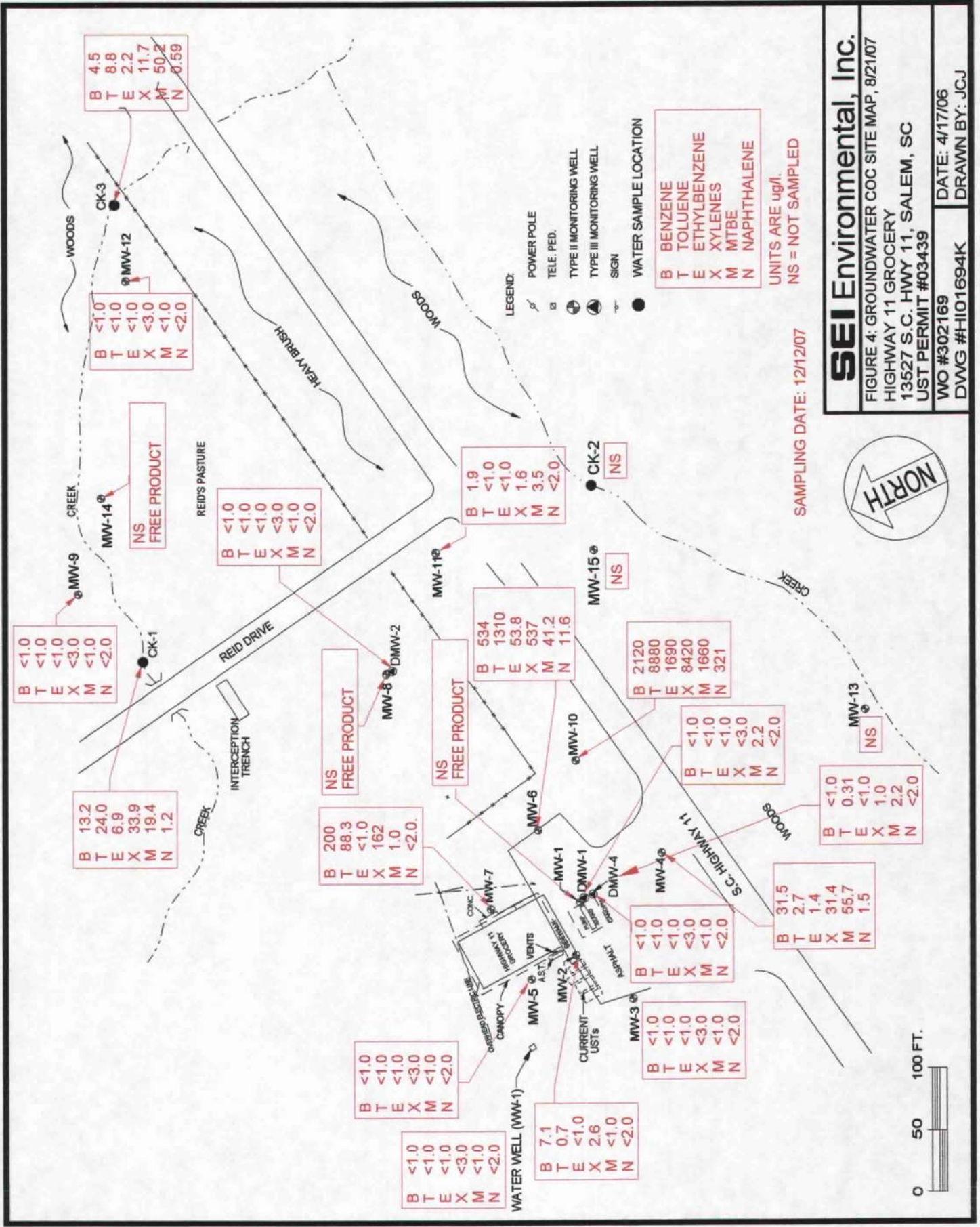
LEGEND:

- POWER POLE
- TELE. PED.
- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- SIGN
- WATER SAMPLE LOCATION
- (XXX)
- GROUNDWATER ELEVATION (FT.) BASED ON ARBITRARY DATUM OF 100.00 FT.
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

SEI Environmental, Inc.
 FIGURE 3: POTENTIOMETRIC SURFACE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-169
 DWG #HI01693L

DATE: 11/01/05
 DRAWN BY: JCJ





APPENDIX B
Tables

APPENDIX B
Tables

Table 1

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-1	05/08/02	24.67	24.71	0.04	103.38	78.74
	07/01/03	23.28	23.52	0.24		80.29
	07/30/03	22.89	22.97	0.08		80.55
	09/15/03	23.78	23.82	0.04		79.63
	10/02/03	24.32	24.45	0.13		79.16
	10/23/03	24.72	24.93	0.21		78.82
	12/18/03	24.06				79.32
	03/31/04	24.61				78.77
	09/29/04	24.20				79.18
	01/11/05	23.77				79.61
	03/17/05	23.97				79.41
	08/09/05	22.86				80.52
	11/01/05	25.20	25.13	0.07		78.23
	03/22/06	23.91				79.47
	08/28/06	27.17	26.64	0.53		76.62
	11/05/06	26.08	25.55	0.53		77.71
	02/07/07	24.30	24.14	0.16		79.20
05/03/07	25.23			78.15		
08/21/07	27.05			76.33		
12/12/07	28.18	27.38	0.80	75.82		
MW-2	05/08/02	26.08			104.85	78.77
	07/01/03	24.08				80.77
	07/30/03	23.78				81.07
	09/15/03	24.73				80.12
	10/02/03	25.56				79.29
	10/23/03	25.71				79.14
	12/18/03	25.38				79.47
	03/31/04	25.85				79.00
	09/29/04	25.55				79.30
	01/11/05	24.74				80.11
	03/17/05	25.10				79.75
	08/09/05	23.70				81.15
	11/01/05	26.29				78.56
	03/22/06	25.94				78.91
	08/28/06	28.33				76.52
	11/05/06	27.39				77.46
	02/07/07	25.47				79.38
05/03/07	26.34			78.51		
08/21/07	28.49			76.36		
12/12/07	29.30			75.55		
MW-3	05/08/02	24.78			104.86	80.08
	07/01/03	22.51				82.35
	07/30/03	22.21				82.65
	09/15/03	23.23				81.63
	10/02/03	23.87				80.99
	10/23/03	24.23				80.63
	12/18/03	23.93				80.93
	03/31/04	24.44				80.42
	09/29/04	24.20				80.66
	01/11/05	23.36				81.50
	03/17/05	23.65				81.21
	08/09/05	22.11				82.75
	11/01/05	24.85				80.01
	03/22/06	24.57				80.29
	08/28/06	26.95				77.91
	11/05/06	26.05				78.81
	02/07/07	24.15				80.71
05/03/07	25.03			79.83		
08/21/07	27.26			77.60		
12/12/07	27.96			76.90		
MW-4	05/08/02	23.38			99.90	76.52
	07/01/03	22.10				77.80
	07/30/03	22.09				77.81
	09/15/03	22.90				77.00
	10/02/03	23.32				76.58
	10/23/03	23.69				76.21
	12/18/03	22.95				76.95
	03/31/04	23.49				76.41
	09/29/04	23.14				76.76
	01/11/05	22.70				77.20
	03/17/05	22.84				77.06
	08/09/05	26.40				73.50
	11/01/05	27.27				72.63
	03/22/06	23.42				76.48
	08/28/06	25.39				74.51
	11/05/06	24.11				75.79
	02/07/07	22.96				76.94
05/03/07	23.88			76.02		
08/21/07	25.66			74.24		
12/12/07	25.86			74.04		

Historical Groundwater Elevation And Product Thickness Data

Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-5	05/08/02	28.82			106.06	77.24
	07/01/03	26.82				79.24
	07/30/03	26.53				79.53
	09/15/03	27.40				78.66
	10/02/03	27.92				78.14
	10/23/03	28.40				77.66
	12/18/03	28.40				77.66
	03/31/04	28.56				77.50
	09/29/04	28.46				77.60
	01/11/05	27.41				78.65
	03/17/05	27.86				78.20
	08/09/05	20.02				86.04
	11/01/05	28.91				77.15
	03/22/06	28.59				77.47
	08/28/06	31.06				75.00
	11/05/06	30.40				75.66
	02/07/07	28.30				77.76
05/03/07	28.90			77.16		
08/21/07	31.12			74.94		
12/12/07	32.07			73.99		
MW-6	05/08/02	21.66			100.00	78.34
	07/01/03	19.77				80.23
	07/30/03	19.88				80.12
	09/15/03	20.63				79.37
	10/02/03	21.34				78.66
	10/23/03	21.74				78.26
	12/18/03	21.00				79.00
	03/31/04	21.71				78.29
	09/29/04	21.33				78.67
	01/11/05	20.81				79.19
	03/17/05	20.10				79.90
	08/09/05	26.18				73.82
	11/01/05	22.41				77.59
	03/22/06	21.77				78.23
	08/28/06	23.86				76.14
	11/05/06	22.71				77.29
	02/07/07	21.13				78.87
05/03/07	22.23			77.77		
08/21/07	24.17			75.83		
12/12/07	24.69			75.31		
MW-7	05/08/02	28.12			103.66	75.54
	07/01/03	26.55				77.11
	07/30/03	26.22				77.44
	09/15/03	26.83				76.83
	10/02/03	27.69				75.97
	10/23/03	28.10				75.56
	12/18/03	27.71				75.95
	03/31/04	28.00				75.66
	09/29/04	27.60				76.06
	01/11/05	26.88				76.78
	03/17/05	27.83				75.83
	08/09/05	20.27				83.39
	11/01/05	28.63				75.03
	03/22/06	N/L				N/L
	08/28/06	30.43				73.23
	11/05/06	29.56				74.10
	02/07/07	27.41				76.25
05/03/07	28.35			75.31		
08/21/07	29.49			74.17		
12/12/07	31.27			72.39		
MW-8	05/08/02	21.00			86.51	65.51
	07/01/03	20.96				65.55
	07/30/03	20.46				66.05
	09/15/03	21.17				65.34
	10/02/03	20.44				66.07
	10/23/03	21.54				64.97
	12/18/03	20.82				65.69
	03/31/04	21.35				65.16
	09/29/04	21.10				65.41
	01/11/05	21.04				65.47
	03/17/05	20.95				65.56
	08/09/05	22.16				64.35
	11/01/05	23.31				63.20
	03/22/06	22.00	21.23	0.77		65.11
	08/28/06	24.46	22.05	2.41		63.93
	11/05/06	NM				
	02/07/07	NM				
05/03/07	NM					
08/21/07	26.61	22.10	4.51	63.42		
12/12/07	23.24	22.85	0.39	63.57		

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-9	05/08/02	2.47			58.39	55.92
	07/01/03	2.30				56.09
	07/30/03	2.26				56.13
	09/15/03	2.42				55.97
	10/02/03	2.16				56.23
	10/23/03	2.42				55.97
	12/18/03	2.20				56.19
	03/31/04	2.56				55.83
	09/29/04	1.90				56.49
	01/11/05	2.23				56.16
	03/17/05	2.11				56.28
	08/09/05	2.04				56.35
	11/01/05	2.33				56.06
	03/22/06	2.23				56.16
	08/28/06	2.50				55.89
	11/05/06	2.38				56.01
	02/07/07	2.36				56.03
05/03/07	2.50			55.89		
08/21/07	2.61			55.78		
12/12/07	2.15			56.24		
MW-10	05/08/02	20.04			93.78	73.74
	07/01/03	16.20				77.58
	07/30/03	18.95				74.83
	09/15/03	16.53				77.25
	10/02/03	20.19				73.59
	10/23/03	20.51				73.27
	12/18/03	19.83				73.95
	03/31/04	18.85				74.93
	09/29/04	20.02				73.76
	01/11/05	19.47				74.31
	03/17/05	18.84				74.94
	08/09/05	18.94				74.84
	11/01/05	21.07				72.71
	03/22/06	20.16				73.62
	08/28/06	22.16				71.62
	11/05/06	20.94				72.84
	02/07/07	19.65				74.13
05/03/07	20.57			73.21		
08/21/07	22.38			71.40		
12/12/07	22.51			71.27		
MW-11	05/08/02	16.22			83.20	66.98
	07/01/03	16.53				66.67
	07/30/03	16.70				66.50
	09/15/03	17.35				65.85
	10/02/03	16.40				66.80
	10/23/03	17.83				65.37
	12/18/03	17.58				65.62
	03/31/04	16.21				66.99
	09/29/04	15.92				67.28
	01/11/05	15.93				67.27
	03/17/05	16.86				66.34
	08/09/05	15.80				67.40
	11/01/05	18.22				64.98
	03/22/06	17.28				65.92
	08/28/06	19.09				64.11
	11/05/06	17.79				65.41
	02/07/07	16.44				66.76
05/03/07	17.67			65.53		
08/21/07	19.12			64.08		
12/12/07	19.19			64.01		
MW-12	05/08/02	2.80			58.69	55.89
	07/01/03	3.16				55.53
	07/30/03	2.55				56.14
	09/15/03	3.26				55.43
	10/02/03	2.60				56.09
	10/23/03	3.50				55.19
	12/18/03	2.97				55.72
	03/31/04	3.19				55.50
	09/29/04	3.02				55.67
	01/11/05	3.10				55.59
	03/17/05	3.12				55.57
	08/09/05	2.72				55.97
	11/01/05	3.63				55.06
	03/22/06	3.23				55.46
	08/28/06	3.84				54.85
	11/05/06	3.48				55.21
	02/07/07	3.15				55.54
05/03/07	3.69			55.00		
08/21/07	4.14			54.55		
12/12/07	3.72			54.97		

Historical: Groundwater Elevation And Product Thickness Data

Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-13	05/08/02	6.29			77.72	71.43
	07/01/03	6.44				71.28
	07/30/03	N/L				N/L
	09/15/03	6.36				71.36
	10/02/03	6.24				71.48
	10/23/03	6.78				70.94
	12/18/03	7.51				70.21
	03/31/04	6.62				71.10
	09/29/04	6.28				71.44
	01/11/05	6.44				71.28
	03/17/05	6.52				71.20
	08/09/05	10.52				67.20
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	N/L				N/L
	08/28/06	N/L				N/L
02/07/07	N/L			N/L		
05/03/07	N/L			N/L		
08/21/07	N/L			N/L		
12/12/07	N/L			N/L		
MW-14	05/08/02	2.00			59.19	57.19
	07/01/03	2.28				56.91
	07/30/03	2.03				57.16
	09/15/03	2.42				56.77
	10/02/03	1.98				57.21
	10/23/03	2.67				56.52
	12/18/03	1.58				57.61
	03/31/04	2.03				57.16
	09/29/04	1.77				57.42
	01/11/05	1.92				57.27
	03/17/05	2.14				57.05
	08/09/05	1.75				57.44
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	3.36				55.83
	11/05/06	N/L				N/L
02/07/07	N/L			N/L		
05/03/07	2.94			56.25		
08/21/07	3.85	3.82	0.03	55.36		
12/12/07	3.41	3.12	0.29	56.01		
MW-15	05/08/02	10.82			71.52	60.70
	07/01/03	10.76				60.76
	07/30/03	10.11				61.41
	09/15/03	11.00				60.52
	10/02/03	10.20				61.32
	10/23/03	11.07				60.45
	12/18/03	11.88				59.64
	03/31/04	11.02				60.50
	09/29/04	10.67				60.85
	01/11/05	10.83				60.69
	03/17/05	10.61				60.91
	08/09/05	10.58				60.84
	11/01/05	11.32				60.20
	03/22/06	NG				NG
	08/28/06	11.62				59.90
	11/05/06	NM				NM
02/07/07	NM			NM		
05/03/07	NM			NM		
08/21/07	DRY			DRY		

Historical Groundwater Elevation And Product Thickness Data

Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
DMW-1	05/08/02	23.88			103.27	79.39
	07/01/03	23.61				79.66
	07/30/03	24.24				79.03
	09/15/03	24.60				78.67
	10/02/03	24.00				79.27
	10/23/03	24.50				78.77
	12/18/03	24.11				79.16
	03/31/04	23.61				79.66
	09/29/04	22.72				80.55
	01/11/05	22.97				80.30
	03/17/05	24.68				78.59
	08/09/05	22.66				80.61
	11/01/05	25.11				78.16
	03/22/06	24.71				78.56
	08/28/06	26.95				76.32
	11/05/06	25.85				77.42
	02/07/07	24.59				78.68
05/03/07	24.93			78.34		
08/21/07	26.89			76.38		
12/12/07	27.62			75.65		
DMW-2	05/08/02	17.83			86.21	68.38
	07/01/03	16.67				69.54
	07/30/03	17.20				69.01
	09/15/03	17.31				68.90
	10/02/03	16.80				69.41
	10/23/03	17.63				68.58
	12/18/03	17.11				69.10
	03/31/04	15.75				70.46
	09/29/04	16.49				69.72
	01/11/05	16.44				69.77
	03/17/05	17.22				68.99
	08/09/05	16.71				69.50
	11/01/05	18.08				68.13
	03/22/06	17.40				68.81
	08/28/06	18.72				67.49
	11/05/06	18.00				68.21
	11/05/06	18.93				67.28
05/03/07	18.81			67.40		
08/21/07	19.15			67.06		
12/12/07	21.40			64.81		
DMW-4	05/08/02	24.30			103.22	78.92
	07/01/03	23.93				79.29
	07/30/03	24.75				78.47
	09/15/03	24.95				78.27
	10/02/03	24.45				78.77
	10/23/03	24.95				78.27
	12/18/03	24.39				78.83
	03/31/04	23.88				79.34
	09/29/04	23.18				80.04
	01/11/05	23.32				79.90
	03/17/05	25.08				78.14
	08/09/05	22.96				80.26
	11/01/05	26.51				76.71
	03/22/06	25.00				78.22
	08/28/06	27.33				75.89
	11/05/06	26.39				76.83
	02/07/07	24.59				78.63
05/03/07	25.48			77.74		
08/21/07	25.48			77.74		
12/12/07	28.23			74.99		

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-1	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
	07/01/03	10,000	34,000	4,400	23,000	34,000	1,200			106,600.00
	07/30/03	7,600	28,000	6,300	32,000	25,000.0	2,500			101,400.00
	12/18/03	2,200	6,200	910	5,800	16,000	2,500			33,610.00
	03/31/04	3,400	9,300	1,100	6,200	20,000	1,200			41,200.00
	09/29/04	3,200	7,300	<1,000	4,500	12,000	<5,000			27,000.00
	03/17/05	5,600	9,550	1,570	7,610	19,300	325			43,955.00
	08/09/05	16,900	42,600	3,520	19,000	115,000	705			197,725.00
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/22/06	20,700	41,100	3,100	11,700	103,000	<4,000			179,600.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.16		906,310.00
	05/03/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00
	08/21/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00
	12/12/07	NS	NS	NS	NS	NS	NS	0.81		0.00
	SSTL	22	4,497	3,148	44,969	180	112			
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-2	05/07/02	13	8.0	1.0	5.0	5.0	5.0			37.00
	07/01/03	4.7	5.0	1.0	3.0	1.0	5.0			19.70
	07/30/03	5.8	5.0	1.0	5.3	1.0	5.0			23.10
	12/18/03	2.2	5.0	1.0	3.0	1.0	5.0			17.20
	03/31/04	2.6	5.0	1.0	3.0	1.0	5.0			17.60
	09/29/04	14	<25	<5.0	<15	<5.0	<25			14.00
	03/17/05	13	5	<1.0	5	<1.0	<2.0			22.40
	08/09/05	39.7	14.5	1.2	27.5	<1.0	<2.0			82.90
	11/01/05	3.8	1.6	<1.0	<3.0	<1.0	<2.0			5.40
	03/22/06	11.8	4.2	<1.0	3.4	<1.0	<2.0			19.40
	08/28/06	32.0	3.1	<1.0	4.5	<1.0	<2.0			39.60
	08/28/06	8.2	<1.0	<1.0	<3	<1.0	<2.0			8.20
	02/07/07	6.9	2.1	<1.0	3.4	<1.0	<2.0			12.40
	05/03/07	15.0	3.5	<1.0	5.4	<1.0	<2.0			23.90
	08/21/07	56.4	6.6	<1.0	20.0	<1.0	<2.0			83.00
	12/12/07	7.1	0.7	<1.0	2.6	<1.0	<2.0			10.42
	SSTL	13	8.0	1.0	5.0	5.0	5.0			
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-3	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.4	<1.0	<3.0	<1.0	<2.0			1.40
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	0	<1.0	1	<1.0	<2.0			1.74
	SSTL	1.0	1.0	1.0	1.0	5.0	5.0			
> SSTL	0.0	0.4	0.0	0.0	0.0	0.0				
MW-4	05/07/02	1,500	5,320	620	3,360	810	500			12,110.00
	07/01/03	4,800	14,000	2,300	12,000	12,000	2,600			47,700.00
	07/30/03	4,000	14,000	2,700	13,000	2,100	500			36,300.00
	12/18/03	1,100	2,400	230	1,900	1,200	250			7,080.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	53	<25	7.1	70	210	<25			340.10
	03/17/05	<1.0	<1.0	<1.0	<3.0	17	<2.0			16.80
	08/09/05	<1.0	<1.0	<1.0	<3.0	5.9	<2.0			5.90
	11/01/05	3,720	3,660	745	4,170	4,540	<200			16,835.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.2	<2.0			1.20
	08/28/06	43	7	4	88	153.0	3.6			298.70
	11/05/06	195	24	19	164	225.0	11.6			638.90
	02/07/07	25	59	13	67	47.1	<2.0			
	05/03/07	95	120	39	199	56.3	8.1			517.30
	08/21/07	0	<1.0	<1.0	3	52.4	<2.0			55.63
	12/12/07	32	3	1	31	55.7	1.5			124.20
	SSTL	1,500	5,320	620	3,360	810	500.0			
> SSTL	0	0.0	0	0	0	0.0				

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-5	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	4.2	17.0	3.6	18.0	2.2	<5.0			45.00
	12/18/03	2.3	<5.0	<1.0	3.2	1.3	<5.0			6.80
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-6	05/07/02	1,780	4,950	490	2,880	6,350	500.0			16,950.00
	07/01/03	2,200	6,600	820	4,400	12,000	2,500			28,520.00
	07/30/03	4,200	13,000	1,600	8,900	21,000	400			49,100.00
	12/18/03	5,100	14,000	1,700	11,000	19,000	2,500			53,300.00
	03/31/04	280	840	100	2,200	900	250			4,570.00
	09/29/04	2,400	<5,000	<1,000	<3,000	17,000	<5,000			19,400.00
	03/17/05	3,490	7,500	952	5,380	15,500	262			33,084.00
	08/09/05	1,370	4,630	295	2,220	7,640	<400			16,155.00
	11/01/05	978	2,220	282	1,810	9,410	<200			14,701.00
	03/22/06	1,280	3,480	399	2,880	8,600	<200			16,639.00
	08/28/06	99	76	<2.0	243	22	<4.0			439.60
	11/05/06	34.0	60.9	<2.0	194	355	<20			643.90
	02/07/07	4,970.0	18,100.0	2,070	12,000	30,500	<500			67,640.00
	05/03/07	1,800.0	5,430.0	672	4,060	11,000	<1000			22,762.00
	08/21/07	167.0	416.0	7	227	213	<10			1,029.80
	12/12/07	534.0	1,310.0	54	537	41	11.8			2,487.60
SSTL	1,780	4,950	490	2,880	6,350	500.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-7	05/07/02	34	20	<1.0	8.0	7.0	<5.0			69.00
	07/01/03	37	36	1.7	20	9.2	<5.0			103.90
	07/30/03	18	18	<1.0	10	<1.0	<5.0			45.70
	12/18/03	41	20	<1.0	<3.0	<1.0	<5.0			61.00
	03/31/04	30	34	<1.0	16	<1.0	<5.0			80.00
	09/29/04	370	500	<100	<300	<100	<500			870.00
	03/17/05	505	590	34	280	65	<2.0			1,473.40
	08/09/05	52	56	2.6	34	9.2	<2.0			154.00
	11/01/05	27	42	3.7	24	<1.0	<2.0			96.10
	03/22/06	Not Sampled								
	08/28/06	99	95	3.6	127	7	<2.0			331.90
	11/05/06	50	44.5	<1.0	23.5	1.9	<2.0			119.90
	02/07/07	182	261.0	12.8	202.0	18.7	<2.0			676.50
	05/03/07	132	104.0	8.2	104.0	8.5	<10.0			356.70
	08/21/07	179	163.0	8.0	178.0	10.5	<4.0			538.50
	12/12/07	200	88.3	<1.0	162.0	<1.0	<2.0			450.30
SSTL	22	20	1.0	8.0	7.0	5.0				
> SSTL	178.0	68.3	0.0	154.0	0.0	0.0				
MW-8	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
	07/01/03	12,000	51,000	7,800	40,000	11,000	2,500			124,300.00
	07/30/03	12,000	40,000	3,600	18,000	15,000	660			89,260.00
	12/18/03	10,000	27,000	3,300	18,000	14,000	2,500			74,800.00
	03/31/04	17,000	140,000	32,000	180,000	8,600	<25,000			377,600.00
	09/29/04	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/17/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	08/09/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/22/06	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	2.41		906,310.00
	11/05/06	44,390	26,540	3,700	21,680	173,000	637,000	NM		906,310.00
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.89		906,310.00
	05/03/07	44,390	26,540	3,700	21,680	173,000	637,000	NM		906,310.00
	08/21/07	226,000	301,000	280,000	278,000	5,110,000	2,000	4.51		6,197,000.00
	12/12/07	NS	NS	NS	NS	NS	NS	0.39		0.00
SSTL	204	40,888	28,622	278,000	1,362	1,021				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-9	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	1.2	8.8	<1.0	<5.0			10.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.5	<1.0	<3.0	<1.0	<2.0			1.50
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
MW-10	05/07/02	115	185	68.0	328	86	9.0			791.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	170	420	43	240	540	6.5			1,419.50
	12/18/03	89	280	74	480	91	25.0			1,039.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	1.7	4.4	<1.0	<3.0	18	<2.0			24.00
	11/01/05	10,000	23,500	1,410	7,510	21,600	<1,000			64,020.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	79	98	16	69	169	<2.0			430.90
	11/05/06	203	412	67	226	137	4.7			1,049.90
	02/07/07	376	1,080	454	2,440	507	82.8			4,939.80
	05/03/07	1,990	4,990	846	4,420	1,770	136.0			14,152.00
	08/21/07	9,730	31,500	2,880	13,900	13,100	317.0			71,427.00
12/12/07	2,120	8,880	1,890	8,420	1,660	321.0			23,091.00	
SSTL	115	185	68	328	86	9.0				
> SSTL	2,005.0	8,695.0	1,622.0	8,092.0	1,574.0	312.0				
MW-11	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	42.2	<1.0	<1.0	93.6	4.5	3.8			144.10
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.9	<2.0			1.90
	08/28/06	6.4	<1	<1	82.6	4.4	2.5			95.90
	11/05/06	2.8	<1	<1	8.9	4.7	<2.0			16.40
	02/07/07	<1	<1	<1	8.9	1.1	<2.0			10.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	2	<1.0	<1.0	9	6	<2.0			17.00
12/12/07	2	<1.0	<1.0	2	4	<2.0			7.00	
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.9	0.0	0.0	0.0	0.0	0.0				
MW-12	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	1.5	24.8	10.1	58.8	<1.0	11.3			106.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL	5.0	1,000	700	10,000	40	25				

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-13	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	NS	NS	NS	NS	NS	NS			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
08/21/07	NS	NS	NS	NS	NS	NS			0.00	
12/12/07	NS	NS	NS	NS	NS	NS			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
MW-14	05/07/02	3,780	13,800	27,000	14,700	7,010	500			66,790.00
	07/01/03	3,500	10,000	1,900	10,000	5,300	500			31,200.00
	07/30/03	3,100	9,700	1,800	9,300	4,300	500			28,700.00
	12/18/03	3,300	11,000	2,000	11,000	4,100	500			31,900.00
	03/31/04	5,500	17,000	2,600	13,000	7,100	570			45,770.00
	09/29/04	3,200	12,000	1,600	9,100	3,200	<5,000			29,100.00
	03/17/05	5,140	13,000	1,710	10,900	4,970	339			36,059.00
	08/09/05	3,290	10,600	1,820	11,000	4,950	<400			31,660.00
	11/01/05	NL	NL	NL	NL	NL	NL			0.00
	03/22/06	NL	1/L	NL	NL	NL	NL			0.00
	08/28/06	2,010.0	4,080.0	1,160.0	6,320.0	3,320.0	261.0			17,151.00
	11/05/06	NL	NL	NL	NL	NL	NL			0.00
	02/07/07	NL	NL	NL	NL	NL	NL			0.00
	05/03/07	3,640.0	11,700.0	1,950.0	10,600.0	5,340.0	527.0			33,757.00
	08/21/07	226,000	301,000	280,000	278,000	5,110,000	2,000	0		6,197,000.00
	12/12/07	NS	NS	NS	NS	NS	NS	0		0.00
	SSTL	5.0	1,000	700	10,000	40	25			
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-15	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	NS	NS	NS	NS	NS	NS			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
08/21/07	NS	NS	NS	NS	NS	NS			0.00	
12/12/07	NS	NS	NS	NS	NS	NS			0.00	
RBSL	5.0	1,000	700	10,000	40	25				
DMW-1	05/07/02	215	430	50	50	1,780	250			2,775.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	4.2	<5.0			4.20
	12/18/03	1.5	<5.0	<1.0	<3.0	<1.0	<5.0			1.50
	03/31/04	<1.0	<15.0	<1.0	<3.0	3.9	<5.0			3.90
	09/29/04	8.4	<25	<5.0	<15	130	<25			138.40
	03/17/05	<1.0	1.2	<1.0	<3.0	8.1	<2.0			9.30
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<5.0	<5.0	<5.0	<15	<5.0	<10			0.00
	03/22/06	3.0	33.1	16	92.2	21.9	13.1			181.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	20.3	<2.0			20.30
	11/05/06	<1.0	<1.0	<1.0	<3.0	90.8	<2.0			90.80
	02/07/07	9.2	2.5	<1.0	9.7	164.0	<4.0			185.40
	05/03/07	<1.0	<1.0	<1.0	<3.0	5.2	<2.0			5.20
	08/21/07	<1.0	<1.0	<1.0	<3.0	28.5	<2.0			28.50
	12/12/07	<1.0	<1.0	<1.0	<3.0	2.2	<2.0			2.20
	SSTL	215	430	50	50	1,780	250			
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
DMW-2	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	6.4	<5.0			6.40
	07/30/03	<1.0	8.4	6.8	30.0	<1.0	6.7			51.90
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	0.3	<2.0			0.26
	12/12/07	<1.0	<1.0	<1.0	<3.0	0.3	<2.0			0.26
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
DMW-4	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	0.3	<1.0	<3.0	<1.0	<2.0			0.31
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
CK-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	2.6	<5.0	<1.0	4.8	4.5	<5.0			11.90
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	11	18	4.1	20.0	9.0	<5.0			62.10
	09/29/04	16	30	6.1	32.0	22.0	<5.0			106.10
	03/17/05	10.4	17.5	4.1	20.8	12.3	<2.0			65.10
	08/09/05	7.6	17.6	2.9	15.8	6.9	<2.0			50.80
	11/01/05	20.3	38.2	8.8	48.8	27.3	<2.0			143.40
	03/22/06	6.6	12.9	3.2	15.2	7.8	<2.0			45.70
	08/28/06	13.1	29.0	6.7	27.8	16.7	<2.0			93.30
	11/05/06	13.9	22.3	6.7	34.3	17.8	<2.0			95.00
	02/07/07	7.9	16.4	4.0	21.1	9.8	<2.0			59.20
	05/03/07	10.8	20.4	5.2	28.2	13.2	<2.0			77.80
	08/21/07	40.4	62.8	19.3	108.0	53.2	3.2			286.90
	12/12/07	13.2	24.0	6.9	33.9	19.4	1.2			98.60
	RBSL	5.0	1,000	700	10,000	40	25			
CK-2	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	NS	NS	NS	NS	NS	NS			0.00
RBSL	5.0	1,000	700	10,000	40	25				

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
CK-3	08/09/05	14.4	33.3	7.1	41.1	25.8	<2.0			121.70
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	23.3	49.7	10.1	48.2	33.8	<2.0			165.10
	11/05/06	25.2	49.1	11.4	63.8	49.3	<2.0			198.80
	02/07/07	21.7	57.5	10.3	57.9	30.8	<2.0			178.20
	05/03/07	23.1	55.6	9.8	52.7	38.0	<2.0			179.20
	08/21/07	NS	NS	NS	NS	NS	NS			0.00
	12/12/07	4.5	8.8	2.2	11.7	50.2	0.6			77.99
RBSL	5.0	1,000	700	10,000	40	25				
WW-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	NS	NS	NS	NS	NS	NS			0.00
	12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
RBSL	5.0	1,000	700	10,000	40	25				
TOTAL MASS										932,034
TOTAL SSSL MASS		3,881	57,303	33,705	339,605	10,645	2,452			447,591
INITIAL MASS ABOVE SSSL										12,046,007
CURRENT MASS ABOVE SSSL										22,702
PERCENT TOTAL MASS REDUCTION ABOVE SSSL										99.81

Reported in parts per billion (µg/l)
 ND: Compound not detected
 BD: Below analytical Detection Limits
 SSSL: Site Specific Treatment Level

APPENDIX C
Field Data Information Sheets for Groundwater Sampling

SEI Environmental SC Monitoring Well Gauging Data Sheet

Site Name: Harvy 11 Grocery WO# 302043

Date 12/12/07

Well ID	Total Depth (feet)	Well Dia. (in.)	Depth to Product (feet)	Product Thickness (feet)	Depth to Water (feet)	Notes
✓ DMW-4		2			28.23	
✓ DMW-1		2			27.62	
✓ MW-2		2			29.30	
✓ MW-5		2			32.07	
✓ MW-3		2			27.96	
✓ MW-4		2			25.86	
✓ MW-10		2			22.51	
✓ MW-6		2			24.69	
✓ MW-7		2	27.38		31.27	
✓ MW-1		2	27.38		28.19	
✓ MW-9		2			2.15	
✓ MW-12		2			3.72	
✓ MW-14		2	3.12		3.41	
✓ MW-11		2			19.19	
✓ DMW-2		2			21.40	
✓ MW-8		2	22.85		23.24	
Purging is only necessary if water table is not across the screening interval. (Usually DMW-1 only)						

Analysis: EPA Method 8260B for BTEX, MTBE, and Naphthalene

2-inch diameter well: Well Volume = (water column) x (0.163 gallon/foot)

4-inch diameter well: Well Volume = (water column) x (0.652 gallon/foot)

Purge amount = Well Volume x 3

APPENDIX D
Laboratory Analytical Results and Chain-of-Custody



Technical Report for

SEI-Charlotte, NC

Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC
302043

Accutest Job Number: F54614

Sampling Date: 12/12/07

Report to:

SEI Environmental-Raleigh

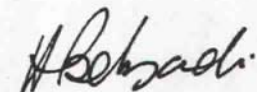
cboggs@sei-environmental.com

ATTN: Chris Boggs

Total number of pages in report: 25



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


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

SEI-Charlotte, NC

Job No: F54614

Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC
 Project No: 302043

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F54614-1	12/12/07	15:12 HPZS	12/14/07	AQ	Ground Water	MW-5
F54614-2	12/12/07	15:14 HPZS	12/14/07	AQ	Ground Water	MW-2
F54614-3	12/12/07	15:20 HPZS	12/14/07	AQ	Ground Water	MW-3
F54614-4	12/12/07	15:25 HPZS	12/14/07	AQ	Ground Water	MW-4
F54614-5	12/12/07	15:29 HPZS	12/14/07	AQ	Ground Water	MW-10
F54614-6	12/12/07	15:34 HPZS	12/14/07	AQ	Ground Water	MW-6
F54614-7	12/12/07	15:38 HPZS	12/14/07	AQ	Ground Water	MW-7
F54614-8	12/12/07	15:45 HPZS	12/14/07	AQ	Ground Water	DMW-4
F54614-9	12/12/07	15:50 HPZS	12/14/07	AQ	Ground Water	DMW-1
F54614-10	12/12/07	15:56 HPZS	12/14/07	AQ	Ground Water	WW-1
F54614-11	12/12/07	16:15 HPZS	12/14/07	AQ	Ground Water	MW-12
F54614-12	12/12/07	16:19 HPZS	12/14/07	AQ	Ground Water	CK-3
F54614-13	12/12/07	16:29 HPZS	12/14/07	AQ	Ground Water	CK-1



Sample Summary (continued)

SEI-Charlotte, NC

Job No: F54614

Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC
Project No: 302043

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F54614-14	12/12/07	16:30	HPZS 12/14/07	AQ	Ground Water	MW-9
F54614-15	12/12/07	16:52	HPZS 12/14/07	AQ	Ground Water	DMW-2
F54614-16	12/12/07	16:58	HPZS 12/14/07	AQ	Ground Water	MW-11



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-5	Date Sampled:	12/12/07
Lab Sample ID:	F54614-1	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052776.D	1	12/19/07	LD	n/a	n/a	VC2134
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-2	Date Sampled:	12/12/07
Lab Sample ID:	F54614-2	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052746.D	1	12/18/07	LD	n/a	n/a	VC2133
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7.1	1.0	0.20	ug/l	
108-88-3	Toluene	0.72	1.0	0.27	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	2.6	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	12/12/07
Lab Sample ID:	F54614-3	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052747.D	1	12/18/07	LD	n/a	n/a	VC2133
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	0.44	1.0	0.27	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	1.3	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-4	Date Sampled:	12/12/07
Lab Sample ID:	F54614-4	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052777.D	1	12/19/07	LD	n/a	n/a	VC2134
Run #2	C0052740.D	5	12/18/07	LD	n/a	n/a	VC2133

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	31.5	1.0	0.20	ug/l	
108-88-3	Toluene	2.7	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	1.4	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	31.4	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	55.7	1.0	0.25	ug/l	
91-20-3	Naphthalene	1.5	2.0	0.44	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	111%	76-127%
2037-26-5	Toluene-D8	102%	102%	86-112%
460-00-4	4-Bromofluorobenzene	98%	101%	84-120%

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

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

Report of Analysis

Client Sample ID:	MW-10	Date Sampled:	12/12/07
Lab Sample ID:	F54614-5	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052743.D	2	12/18/07	LD	n/a	n/a	VC2133
Run #2	C0052769.D	50	12/19/07	LD	n/a	n/a	VC2134
Run #3	C0052821.D	200	12/21/07	LD	n/a	n/a	VC2136

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2120 ^a	50	10	ug/l	
108-88-3	Toluene	8880 ^b	200	54	ug/l	
100-41-4	Ethylbenzene	1690 ^a	50	10	ug/l	
1330-20-7	Xylene (total)	8420 ^a	150	28	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1660 ^a	50	13	ug/l	
91-20-3	Naphthalene	321 ^a	100	22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	94%	99%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	104%	100%	99%	76-127%
2037-26-5	Toluene-D8	98%	100%	98%	86-112%
460-00-4	4-Bromofluorobenzene	103%	97%	93%	84-120%

(a) Result is from Run# 2

(b) Result is from Run# 3

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

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

Report of Analysis

Client Sample ID:	MW-6	Date Sampled:	12/12/07
Lab Sample ID:	F54614-6	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052744.D	2	12/18/07	LD	n/a	n/a	VC2133
Run #2	C0052773.D	20	12/19/07	LD	n/a	n/a	VC2134

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	534 ^a	20	4.0	ug/l	
108-88-3	Toluene	1310 ^a	20	5.4	ug/l	
100-41-4	Ethylbenzene	53.8	2.0	0.40	ug/l	
1330-20-7	Xylene (total)	537 ^a	60	11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	41.2	2.0	0.50	ug/l	
91-20-3	Naphthalene	11.6	4.0	0.88	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	112%	100%	76-127%
2037-26-5	Toluene-D8	101%	100%	86-112%
460-00-4	4-Bromofluorobenzene	103%	101%	84-120%

(a) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID:	MW-7	Date Sampled:	12/12/07
Lab Sample ID:	F54614-7	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052748.D	1	12/18/07	LD	n/a	n/a	VC2133
Run #2	C0052774.D	5	12/19/07	LD	n/a	n/a	VC2134

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	200 ^a	5.0	1.0	ug/l	
108-88-3	Toluene	88.3	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	162	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	110%	100%	76-127%
2037-26-5	Toluene-D8	100%	101%	86-112%
460-00-4	4-Bromofluorobenzene	99%	103%	84-120%

(a) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID:	DMW-4	Date Sampled:	12/12/07
Lab Sample ID:	F54614-8	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052749.D	1	12/18/07	LD	n/a	n/a	VC2133
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	0.31	1.0	0.27	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	1.0	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	DMW-1	Date Sampled:	12/12/07
Lab Sample ID:	F54614-9	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052750.D	1	12/18/07	LD	n/a	n/a	VC2133
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.2	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Client Sample ID:	WW-1	Date Sampled:	12/12/07
Lab Sample ID:	F54614-10	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0052775.D	1	12/19/07	LD	n/a	n/a	VC2134
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-12	Date Sampled:	12/12/07
Lab Sample ID:	F54614-11	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0023321.D	1	12/18/07	MM	n/a	n/a	VN995
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	117%		84-120%

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

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

Report of Analysis

Client Sample ID:	CK-3	Date Sampled:	12/12/07
Lab Sample ID:	F54614-12	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0023322.D	1	12/19/07	MM	n/a	n/a	VN995
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.5	1.0	0.20	ug/l	
108-88-3	Toluene	8.8	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	2.2	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	11.7	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	50.2	1.0	0.25	ug/l	
91-20-3	Naphthalene	0.59	2.0	0.44	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	113%		84-120%

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

Report of Analysis

Client Sample ID:	CK-1	Date Sampled:	12/12/07
Lab Sample ID:	F54614-13	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0023323.D	1	12/19/07	MM	n/a	n/a	VN995
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	13.2	1.0	0.20	ug/l	
108-88-3	Toluene	24.0	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	6.9	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	33.9	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	19.4	1.0	0.25	ug/l	
91-20-3	Naphthalene	1.2	2.0	0.44	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-9	Date Sampled:	12/12/07
Lab Sample ID:	F54614-14	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0023324.D	1	12/19/07	MM	n/a	n/a	VN995
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	116%		84-120%

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

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

Report of Analysis

Client Sample ID:	DMW-2	Date Sampled:	12/12/07
Lab Sample ID:	F54614-15	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0024178.D	1	12/19/07	MM	n/a	n/a	VM994
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-11	Date Sampled:	12/12/07
Lab Sample ID:	F54614-16	Date Received:	12/14/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Highway 11 Grocery; 13527 SC Hwy 11, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0024179.D	1	12/19/07	MM	n/a	n/a	VM994
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	1.6	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: **F54614**
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES	
NAME: SEI ENVIRONMENTAL INC ADDRESS: 5100 REAGAN DR. CITY, STATE, ZIP: CHARLOTTE NC 28206 SEND REPORT TO: SEI PHONE #: 704-596-8624		PROJECT NAME: HWY 11 GROCERY LOCATION: 13527 SC HWY 11 SALEM, SC PROJECT NO.: 302-043 FAX #: 704-596-8605				82608 FOR BTEX MTBE, NAPTH.				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		MATRIX	# OF BOTTLES						PRESERVATION				LAB USE ONLY
		DATE	TIME	SAMPLED BY:		HC	NHCH	HMCH	HS04	NONE	
1	MW-5	12/12/07	1512	HR, ZSGW	3	X					
2	MW-2		1514								
3	MW-3		1520								
4	MW-4		1525								
5	MW-10		1529								
6	MW-6		1534								
7	MW-7		1538								
8	DMW-4		1545								
9	DMW-1		1550								
10	WW-1		1556								
11	MW-12		1615								
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION				COMMENTS/REMARKS					
<input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY: SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:						
1. HR	12/13/07 1700	1. FX	2. FX		2. FM	12-14-07	0900				
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:						
3.		3.	4.		4.						
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE				
5.		5.				<input type="checkbox"/>	1.0 C				

3.1
3

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: **F54614**
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES	
SEI ENVIRONMENTAL INC NAME 5100 REAGAN DR ADDRESS CHARLOTTE NC 28206 CITY, STATE ZIP SEI SEND REPORT TO PHONE # 704-596-8624		HWY 11 GROCERY PROJECT/NAME 13527 SC HWY 11 LOCATION SALEM SC PROJECT NO. 302043 FAX # 704-596-8605				82608 FOR BTX MTBE, NAPTH				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		MATRIX	# OF BOTTLES					PRESERVATION				LAB USE ONLY
		DATE	TIME	SAMPLED BY:		HIS	NONH	H2O2	H2SO4	NONE	
12	CK-3	12/12/07	1619	WZS	3	X					X
13	CK-1		1629								
14	MW-9		1630								
15	DMW-2		1652								
16	MW-11		1658								
DATA TURNAROUND INFORMATION <input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		DATA DELIVERABLE INFORMATION <input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:						
1. <i>RF</i>	12/13/07 1700	1. FX	2. FX		2. FM 12-14-07 0900						
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:						
3.		3.	4.		4.						
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE				
5.		5.				<input type="checkbox"/>	1.0 C				

3.1
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F54614: Chain of Custody

Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F54614 CLIENT: SEI PROJECT: HWY 11 GOREARY
 DATE/TIME RECEIVED: 12-14-07 0900 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.0
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 861918267360

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE FM 12-14-07 TECHNICIAN SIGNATURE/DATE JE 12-14-07 ASBD 10/03/06

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DOES NOT MATCH LABEL(S)
- ID'S ON COC DOES NOT MATCH LABEL(S)
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT
 (APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

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C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

FEB 19 2008

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received February 11, 2008
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The report indicates the free phase product has reemerged in monitoring well MW-1, and persists in monitoring wells MW-6 and MW-14. Further, benzene and MtBE concentrations in creek samples CK-1 and CK-3 exceed risk-based screening levels. As the free-phase continues to negatively impact the creek, the Program requests that your contractor take immediate steps to remove it.

Based upon the current data, the Program calculates a **-51.08%** reduction in total concentrations of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets).

The next CASE report documenting the December monitoring event and quarterly AFVR events is due on or before **May 1, 2008**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettjp@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.16

UST PROGRAM
DOCKETING # 7Kecr



Environmental, Inc.

2025 Progress Court
Raleigh, North Carolina 27608
800.474.7049
919.832.2535
Fax 832.5914

March 5, 2008

Mr. Joel P. Padgett, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Assessment & Corrective Action Section, Underground Storage Tank Program
2600 Bull Street
Columbia, South Carolina 29201

**RE: Corrective Action System Evaluation Report
Highway 11 Grocery
13527 North SC Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

RECEIVED

MAR 13 2008

UNDERGROUND STORAGE
TANK PROGRAM

Dear Mr. Padgett:

Please find enclosed the quarterly Corrective Action System Evaluation (C.A.S.E) Report for the February 14, 2008 groundwater sampling event at the above referenced site. If you have any questions or comments, please contact me at (919) 832-2535.

Sincerely,
SEI Environmental, Inc.

Laura Dell'Olio
Staff Scientist

cc: Mr. John Smith, Highway 11 Grocery

CORRECTIVE ACTION SYSTEM EVALUATION REPORT
December 2007 through February 2008

Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina
Oconee County
UST Permit Number: 03439
SEI Project Number: 302169

PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina 29676-9801

RECEIVED

MAR 13 2008

PREPARED BY:

SEI ENVIRONMENTAL, INC.
2025 Progress Court
Raleigh, NC, 27608
UST Site Rehabilitation Contractor No. 354

**UNDERGROUND STORAGE
TANK PROGRAM**

March 5, 2008

**UST PROGRAM
DOCKETING #**

97

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CORRECTIVE ACTION SYSTEM EVALUATION REPORT

Submittal Date: March 5, 2008
For Period Covering: December 12, 2007
Facility Name: Highway 11 Grocery
UST Permit Number: 03439
County: Oconee
Latitude: N 35°54'26.02"

Monitoring Report Number: _____
to February 14, 2008
Street Address: 13527 North SC Highway 11
City: Salem, South Carolina
Zip Code: 27603
Longitude: W 82°58'31.29"
:

Submitted by UST Owner/Operator:

Prepared by Consultant/Contractor:

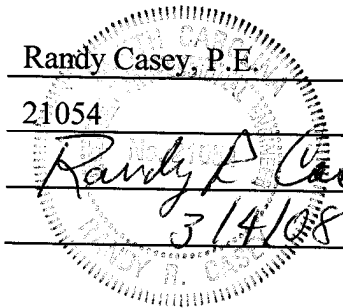
Name: Steve Smith
Company: Highway 11 Grocery
Address: 13527 North Highway 11
City: Salem State: SC
Zip Code: 29676-9801
Telephone: (864) 944-0494
SEI Project Number: 302169

Name: Randy Casey
Company: SEI Environmental, Inc.
Address: 2025 Progress Place
City: Raleigh State: NC
Zip Code: 27608
Telephone: (919) 832-2535
UST Site Rehabilitation Contractor No. 354

Registered Professional Engineer or Professional Geologist Certification

I hereby certify that I have directed and supervised the fieldwork and preparation of this Plan, in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Randy Casey, P.E.
SC Reg. No. 21054
Signature: *Randy P. Casey*
Date: 3/4/08



LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

This report has been prepared under the guidance of a Licensed Geologist registered in South Carolina to meet the requirements of the South Carolina Department of Health and Environmental Control. The information and conclusions expressed in this report are based upon normal standards of the profession and limited to information available at this time. Chemical analyses of the samples associated with this report were performed by a subcontracted, independent, and certified laboratory. All data have been reviewed for accuracy and, excepting obvious errors, have been accepted as correct. SEI Environmental, Inc. reserves the right to revise estimates of performances as required by changes in the data supplied by Accutest Laboratories.

1.0 INTRODUCTION

The Highway 11 Grocery is a convenience and retail fuel store located at 13527 North SC Highway 11 in Salem, Oconee County, South Carolina. Figure 1 in Appendix A is a portion of the United States Geological Survey (USGS) 7.5-minute topographical quadrangle map identifying the location of the site.

The following is a brief summary of recent events occurring at the site:

- December 18, 2003 – Groundwater Sampling Event
- March 31, 2004 – Groundwater Sampling Event
- September 29, 2004 – Groundwater Sampling Event
- January 11, 2005 – EFR performed on MW-8
- March 17, 2005 – EFR performed on MW-8
- March 17, 2005 – Groundwater Sampling Event
- August 9, 2005 – Groundwater Sampling Event
- November 1, 2005 – Groundwater Sampling Event
- March 22, 2006 – Groundwater Sampling Event
- August 28, 2006 – Groundwater Sampling Event
- November 5, 2006 – Groundwater Sampling Event
- February 7, 2007 – Groundwater Sampling Event
- May 3, 2007 - Groundwater Sampling Event
- August 21, 2007 – Groundwater Sampling Event
- December 12, 2007- Groundwater Sampling Event
- February 14, 2008 – Groundwater Sampling Event

On February 14, 2008, in accordance with the requirements of the PFP contract, samples were collected from sixteen groundwater monitoring wells and two surface locations. This report provides details of the groundwater sampling event. An AFVR event will be performed before May 1, 2008.

2.0 FIELD MEASUREMENTS AND SAMPLING

2.1 Groundwater Sampling

On February 14, 2008, groundwater samples were collected from sixteen groundwater monitoring wells. Prior to sampling, groundwater depth was gauged in the monitoring wells utilizing an oil-water interface probe to measure depth to groundwater, and to detect any phase separated hydrocarbons (PSH) present. The depth to groundwater measurement is used to calculate the groundwater elevation used in determining the current groundwater potentiometric surface, along with hydraulic gradient, and groundwater flow direction.

Figure 3 in Appendix A presents a groundwater potentiometric map for the current sampling event. The latest groundwater data indicate that groundwater flow at the site is to the northeast with a hydraulic gradient of 0.032 feet per foot between monitoring wells MW-3 and MW-12. This flow direction is consistent with previous determinations of groundwater movement. Table 1 in Appendix B summarizes groundwater measurement data. Appendix C includes field observation data.

Representative groundwater samples were collected utilizing new, disposable bailers. Samples were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

2.2 Surface Water Sampling

On February 14, 2008, two (CK-1 and CK-3) surface water samples were collected from adjacent creek. CK-2 location is no longer sampled per the March 17, 2005, sampling event report. CK-3 replaced CK-2 to monitor for potential contamination from monitoring well MW-14. Representative samples were collected utilizing new, disposable bailers. Samples

were placed in laboratory supplied containers, maintained at 4° Celsius, and shipped via FedEx under chain-of-custody to AccuTest, Inc. Laboratories in Orlando, Florida. The groundwater samples were analyzed by EPA Method 8260B for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Analytical Results

SSTLs have been designated for fourteen (MW-1 through MW-8, MW-10, MW-11, MW-14, DMW-1, DMW-2, and DMW-4). Sixteen wells were sampled on February 14, 2008 and CoCs were detected in four (MW-7, MW-10, MW-11, and MW-14) monitoring wells at concentrations above their respective Site Specific Target Level (SSTL). Free products was observed in monitoring wells MW-1 and MW-8. Figure 4 in Appendix A is a site map presenting monitoring well location and their CoC concentrations. Table 2 in Appendix B summarizes historical groundwater analytical results. A copy of the laboratory report and completed chain-of-custody form is included in Appendix C.

3.2 Surface Water Analytical Results

Benzene was detected in surface water sample CK-1 at a concentration of 8.7 µg/L.

4.0 REMEDIATION SYSTEM EFFECTIVENESS

In awarding the Pay-For-Performance (PFP) site remediation contract, the South Carolina Department of Health and Environmental Control (SCDHEC) set remediation goals for this site via site specific target levels (SSTLs). The monitoring wells have individual target concentrations for five (benzene, toluene, ethylbenzene, xylenes, MTBE and naphthalene) identified chemicals of concern (CoC).

Remediation system effectiveness can be calculated comparing the initial May 7, 2002, CoC concentrations that exceeded the SSTLs with the current CoC concentrations that exceeded the SSTLs. For monitoring wells MW-1 and MW-8, the standard values for

free product (benzene, 226,000 µg/L; toluene, 301,000 µg/L; ethylbenzene, 280,000 µg/L; xylenes, 278,000 µg/L; MTBE, 5,110,000 µg/L; and naphthalene 2,000 µg/L) were used in the percent reduction calculation. The formula is as follows:

$$\left[\frac{[08/29/96 \text{ Sample Concentration Above SSTL}] - [\text{Current Sample Concentration Above SSTL}]}{[08/29/96 \text{ Sample Concentration Above SSTL}]} \right] * 100 = \% \text{ Reduction}$$

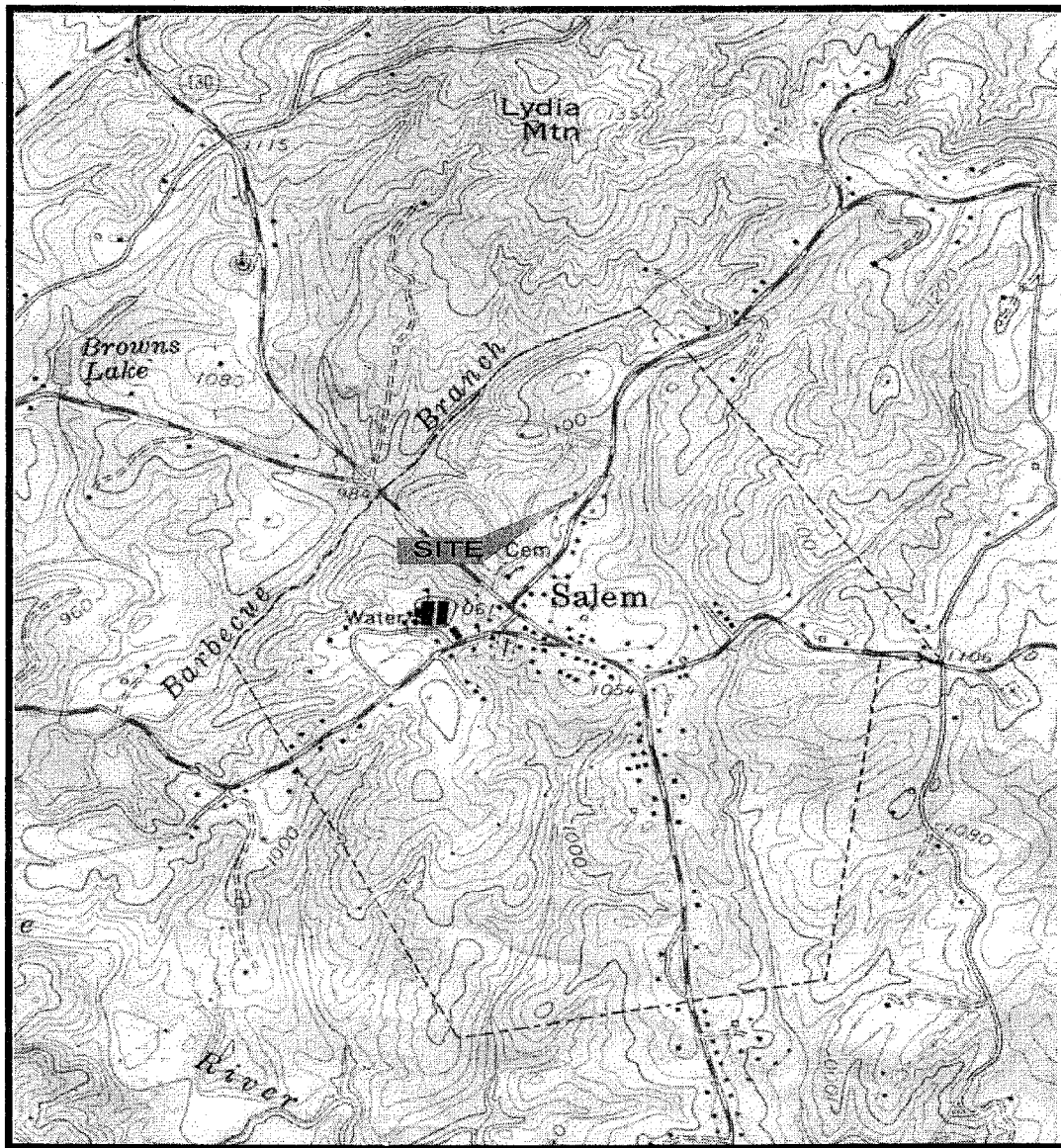
Using the current analytical results, the percent concentration reduction is 99.75%. Table 2 in Appendix B presents concentration reduction calculations.

5.0 CONCLUSIONS

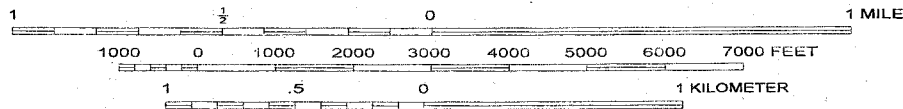
The groundwater flow direction at the time of the February 14, 2008 sampling event was towards the northeast with a hydraulic gradient of 0.032 feet per foot. Free product was present in monitoring wells MW-1 and MW-8. CoCs were detected in four monitoring wells above their respective SSTLs. Benzene was detected in CK-1 surface water samples at a concentration above the RBSL. The percent concentration reduction was calculated at 99.75%.

SEI Environmental, Inc recommends continuing the quarterly monitoring to evaluate the continued reduction of chemicals of concern in the monitoring wells on site. In addition SEI will perform an AFVR event before May 1, 2008 on monitoring wells MW-1, MW-6, and MW-14 as directed in the letter from DHEC dated Feb 19, 2008.

APPENDIX A
Figures



SCALE 1:24000



SALEM QUADRANGLE
 SOUTH CAROLINA-OCONEE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)
 BY U.S. GEOLOGICAL SURVEY

SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCER
 13527 Highway 11, Salem, SC
 FACILITY I.D. #03439

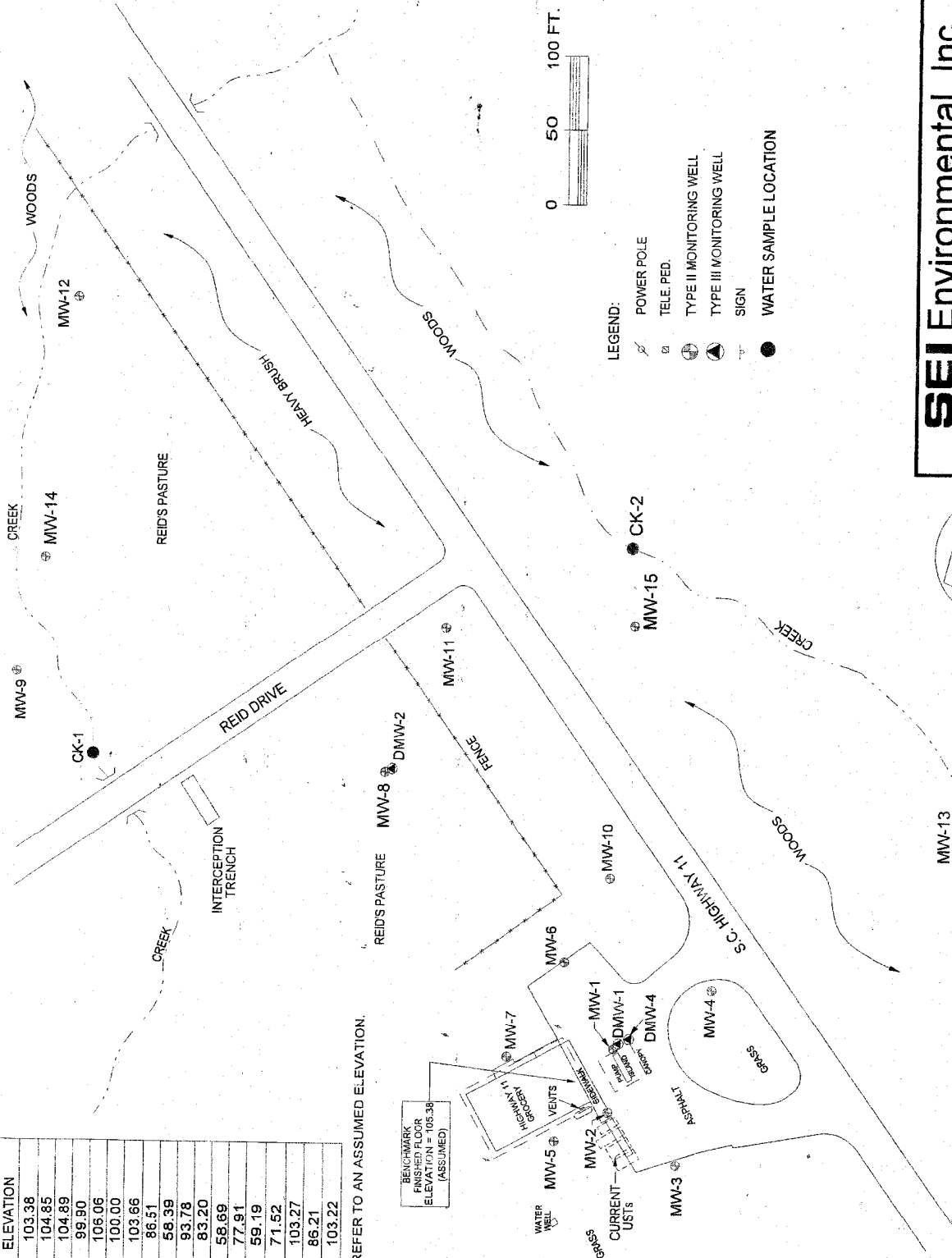
WO # 302169
 DWG # Hw 11_topo_sitemap

DATE: 9/16/05
 DRAWN BY: HWH

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

REID'S GROCERY
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043
 DATE: 3/17/05
 DWG #H101692G
 DRAWN BY: JCJ



WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

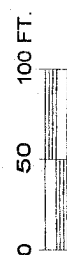
FINISHED FLOOR ELEVATION = 105.38 (ASSUMED)

WATER WELL
 MW-5 (73.99)
 MW-2 (75.55)
 CURRENT USTs
 MW-1 (75.82)
 DMW-1 (74.99)
 DMW-4 (74.99)
 MW-3 (76.90)

MW-7 (72.39)
 MW-6 (75.31)
 MW-10 (71.27)
 MW-4 (74.04)
 MW-11 (64.01)
 MW-8 (63.57)
 DMW-2 (64.81)
 MW-15 (64.01)
 CK-2 (NM)
 MW-12 (54.97)
 MW-9 (56.24)
 MW-14 (56.01)
 CK-1

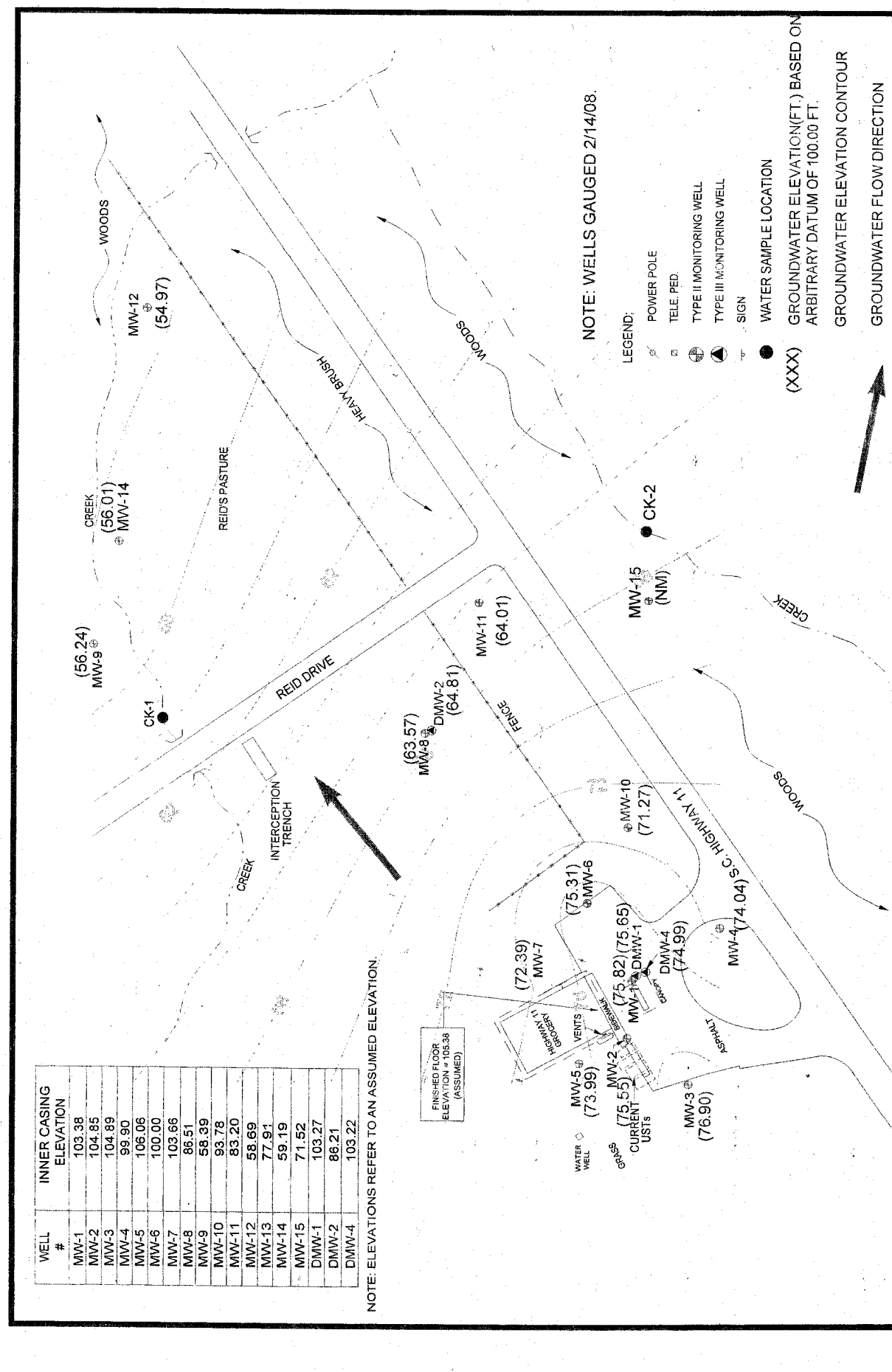
NOTE: WELLS GAUGED 2/14/08.

LEGEND:
 POWER POLE
 TELE. PED.
 TYPE II MONITORING WELL
 TYPE III MONITORING WELL
 SIGN
 WATER SAMPLE LOCATION
 (XXX)
 GROUNDWATER ELEVATION (FT.) BASED ON ARBITRARY DATUM OF 100.00 FT.
 GROUNDWATER ELEVATION CONTOUR
 GROUNDWATER FLOW DIRECTION



SEI Environmental, Inc.
 FIGURE 3: POTENTIOMETRIC SURFACE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-169
 DWG #HI01693L

DATE: 11/01/05
 DRAWN BY: JCJ



B	21.0
T	54.5
E	10.5
X	62.4
M	39.7
N	4.4

B	21
T	54.5
E	10.5
X	62
M	40
N	4.4

B	3640
T	14500
E	2700
X	14300
M	5500
N	439

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

B	<1.0
T	1.8
E	1.4
X	7.3
M	1.9
N	1.0

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

B	8.7
T	16.8
E	4.9
X	23.9
M	11.9
N	1.2

B	59
T	59.8
E	3
X	40.9
M	2.0
N	<2.0

B	162
T	750
E	26
X	575
M	11
N	11.8

B	401
T	129
E	167
X	721
M	296
N	45.7

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	11.9
N	<2.0

B	<1.0
T	0.3
E	<1.0
X	<2.0
M	<1.0
N	<2.0

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<2.0
N	<1.0

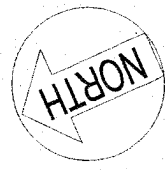
B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

B	<1.0
T	<1.0
E	<1.0
X	<3.0
M	<1.0
N	<2.0

B	3.6
T	<1.0
E	<1.0
X	<1.0
M	<1.0
N	<2.0

SEI Environmental, Inc.
 FIGURE 4: GROUNDWATER COC SITE MAP, 8/21/07
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302169 DATE: 4/17/06
 DWG #HI01694K DRAWN BY: JCJ

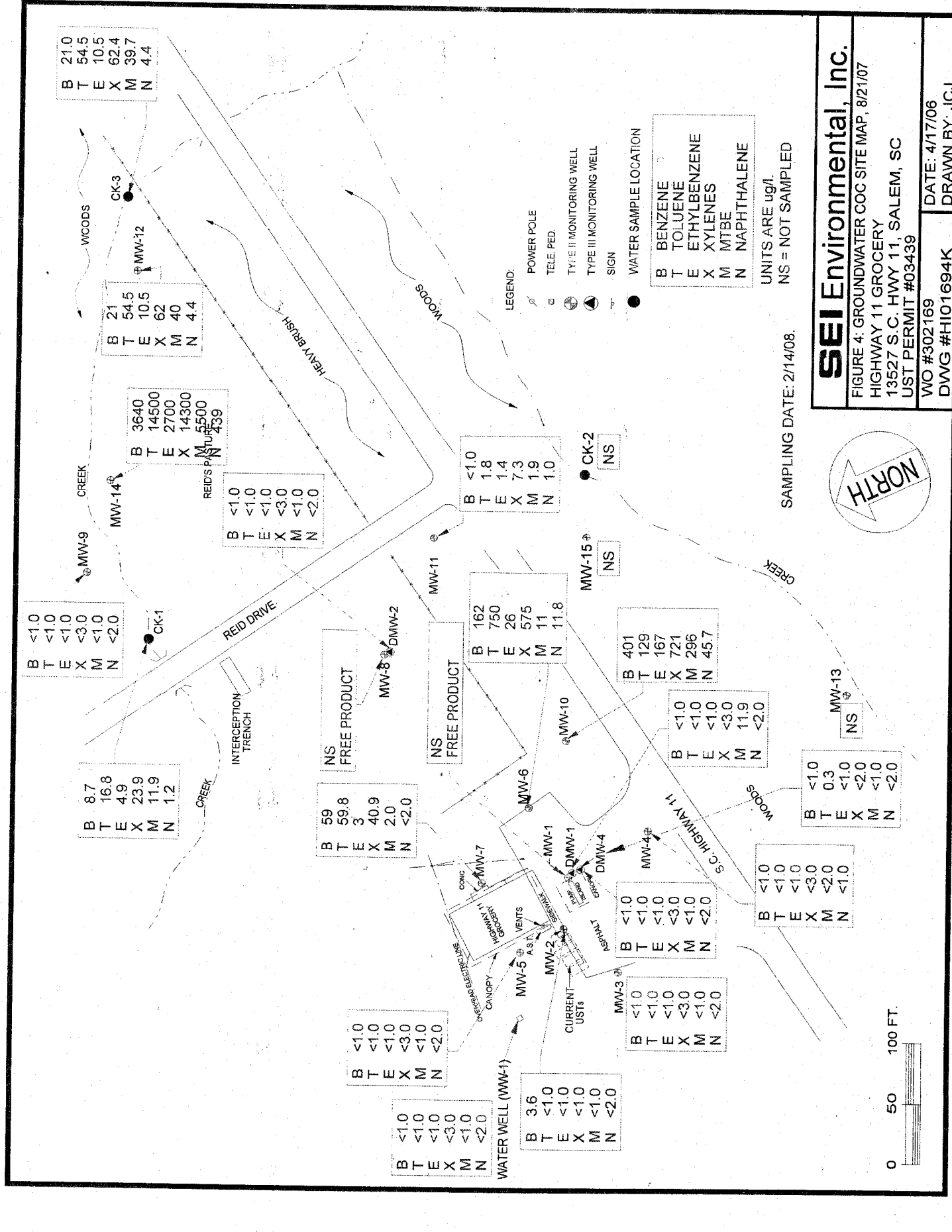


SAMPLING DATE: 2/14/08.

UNITS ARE ug/l.
 NS = NOT SAMPLED



- LEGEND:
- POWER POLE
 - TELE. PED.
 - TYPE II MONITORING WELL
 - TYPE III MONITORING WELL
 - SIGN
 - WATER SAMPLE LOCATION
- | | |
|---|--------------|
| B | BENZENE |
| T | TOLUENE |
| E | ETHYLBENZENE |
| X | XYLENES |
| M | MTBE |
| N | NAPHTHALENE |



APPENDIX B
Tables

Table 1

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-1	05/08/02	24.67	24.71	0.04	103.38	78.74
	07/01/03	23.28	23.52	0.24		80.29
	07/30/03	22.89	22.97	0.08		80.55
	09/15/03	23.78	23.82	0.04		79.63
	10/02/03	24.32	24.45	0.13		79.16
	10/23/03	24.72	24.93	0.21		78.82
	12/18/03	24.06				79.32
	03/31/04	24.61				78.77
	09/29/04	24.20				79.18
	01/11/05	23.77				79.61
	03/17/05	23.97				79.41
	08/09/05	22.86				80.52
	11/01/05	25.20	25.13	0.07		78.23
	03/22/06	23.91				79.47
	08/28/06	27.17	26.64	0.53		76.62
	11/05/06	26.08	25.55	0.53		77.71
	02/07/07	24.30	24.14	0.16		79.20
	05/03/07	25.23				78.15
	08/21/07	27.05				76.33
	12/12/07	28.18	27.38	0.80		75.82
02/14/08	25.72	25.69	0.03	77.68		
MW-2	05/08/02	26.08			104.85	78.77
	07/01/03	24.08				80.77
	07/30/03	23.78				81.07
	09/15/03	24.73				80.12
	10/02/03	25.56				79.29
	10/23/03	25.71				79.14
	12/18/03	25.38				79.47
	03/31/04	25.85				79.00
	09/29/04	25.55				79.30
	01/11/05	24.74				80.11
	03/17/05	25.10				79.75
	08/09/05	23.70				81.15
	11/01/05	26.29				78.56
	03/22/06	25.94				78.91
	08/28/06	28.33				76.52
	11/05/06	27.39				77.46
	02/07/07	25.47				79.38
	05/03/07	26.34				78.51
	08/21/07	28.49				76.36
	12/12/07	29.30				75.55
02/14/08	27.53			77.32		
MW-3	05/08/02	24.78			104.86	80.08
	07/01/03	22.51				82.35
	07/30/03	22.21				82.65
	09/15/03	23.23				81.63
	10/02/03	23.87				80.99
	10/23/03	24.23				80.63
	12/18/03	23.93				80.93
	03/31/04	24.44				80.42
	09/29/04	24.20				80.66
	01/11/05	23.36				81.50
	03/17/05	23.65				81.21
	08/09/05	22.11				82.75
	11/01/05	24.85				80.01
	03/22/06	24.57				80.29
	08/28/06	26.95				77.91
	11/05/06	26.05				78.81
	02/07/07	24.15				80.71
	05/03/07	25.03				79.83
	08/21/07	27.26				77.60
	12/12/07	27.96				76.90
02/14/08	26.21			78.65		

Historical Groundwater Elevation And Product Thickness Data

Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-4	05/08/02	23.38			99.90	76.52
	07/01/03	22.10				77.80
	07/30/03	22.09				77.81
	09/15/03	22.90				77.00
	10/02/03	23.32				76.58
	10/23/03	23.69				76.21
	12/18/03	22.95				76.95
	03/31/04	23.49				76.41
	09/29/04	23.14				76.76
	01/11/05	22.70				77.20
	03/17/05	22.84				77.06
	08/09/05	26.40				73.50
	11/01/05	27.27				72.63
	03/22/06	23.42				76.48
	08/28/06	25.39				74.51
	11/05/06	24.11				75.79
	02/07/07	22.96				76.94
	05/03/07	23.88				76.02
	08/21/07	25.66				74.24
	12/12/07	25.86				74.04
02/14/08	26.44			73.46		
MW-5	05/08/02	28.82			106.06	77.24
	07/01/03	26.82				79.24
	07/30/03	26.53				79.53
	09/15/03	27.40				78.66
	10/02/03	27.92				78.14
	10/23/03	28.40				77.66
	12/18/03	28.40				77.66
	03/31/04	28.56				77.50
	09/29/04	28.46				77.60
	01/11/05	27.41				78.65
	03/17/05	27.86				78.20
	08/09/05	20.02				86.04
	11/01/05	28.91				77.15
	03/22/06	28.59				77.47
	08/28/06	31.06				75.00
	11/05/06	30.40				75.66
	02/07/07	28.30				77.76
	05/03/07	28.90				77.16
	08/21/07	31.12				74.94
	12/12/07	32.07				73.99
02/14/08	30.60			75.46		
MW-6	05/08/02	21.66			100.00	78.34
	07/01/03	19.77				80.23
	07/30/03	19.88				80.12
	09/15/03	20.63				79.37
	10/02/03	21.34				78.66
	10/23/03	21.74				78.26
	12/18/03	21.00				79.00
	03/31/04	21.71				78.29
	09/29/04	21.33				78.67
	01/11/05	20.81				79.19
	03/17/05	20.10				79.90
	08/09/05	26.18				73.82
	11/01/05	22.41				77.59
	03/22/06	21.77				78.23
	08/28/06	23.86				76.14
	11/05/06	22.71				77.29
	02/07/07	21.13				78.87
	05/03/07	22.23				77.77
	08/21/07	24.17				75.83
	12/12/07	24.69				75.31
02/14/08	22.77			77.23		

Historical Groundwater Elevation And Product Thickness Data

Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-7	05/08/02	28.12			103.66	75.54
	07/01/03	26.55				77.11
	07/30/03	26.22				77.44
	09/15/03	26.83				76.83
	10/02/03	27.69				75.97
	10/23/03	28.10				75.56
	12/18/03	27.71				75.95
	03/31/04	28.00				75.66
	09/29/04	27.60				76.06
	01/11/05	26.88				76.78
	03/17/05	27.83				75.83
	08/09/05	20.27				83.39
	11/01/05	28.63				75.03
	03/22/06	N/L				N/L
	08/28/06	30.43				73.23
	11/05/06	29.56				74.10
	02/07/07	27.41				76.25
	05/03/07	28.35				75.31
	08/21/07	29.49				74.17
	12/12/07	31.27				72.39
	02/14/08	29.64				74.02
MW-8	05/08/02	21.00			86.51	65.51
	07/01/03	20.96				65.55
	07/30/03	20.46				66.05
	09/15/03	21.17				65.34
	10/02/03	20.44				66.07
	10/23/03	21.54				64.97
	12/18/03	20.82				65.69
	03/31/04	21.35				65.16
	09/29/04	21.10				65.41
	01/11/05	21.04				65.47
	03/17/05	20.95				65.56
	08/09/05	22.16				64.35
	11/01/05	23.31				63.20
	03/22/06	22.00	21.23	0.77		65.11
	08/28/06	24.46	22.05	2.41		63.93
	11/05/06	NM				
	02/07/07	NM				
	05/03/07	NM				
	08/21/07	26.61	22.10	4.51		63.42
	12/12/07	23.24	22.85	0.39		63.57
	02/14/08	23.54	21.61	1.93		64.48
MW-9	05/08/02	2.47			58.39	55.92
	07/01/03	2.30				56.09
	07/30/03	2.26				56.13
	09/15/03	2.42				55.97
	10/02/03	2.16				56.23
	10/23/03	2.42				55.97
	12/18/03	2.20				56.19
	03/31/04	2.56				55.83
	09/29/04	-1.90				56.49
	01/11/05	2.23				56.16
	03/17/05	2.11				56.28
	08/09/05	2.04				56.35
	11/01/05	2.33				56.06
	03/22/06	2.23				56.16
	08/28/06	2.50				55.89
	11/05/06	2.38				56.01
	02/07/07	2.36				56.03
	05/03/07	2.50				55.89
	08/21/07	2.61				55.78
	12/12/07	2.15				56.24
	02/14/08	2.22				56.17

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-10	05/08/02	20.04			93.78	73.74
	07/01/03	16.20				77.58
	07/30/03	18.95				74.83
	09/15/03	16.53				77.25
	10/02/03	20.19				73.59
	10/23/03	20.51				73.27
	12/18/03	19.83				73.95
	03/31/04	18.85				74.93
	09/29/04	20.02				73.76
	01/11/05	19.47				74.31
	03/17/05	18.84				74.94
	08/09/05	18.94				74.84
	11/01/05	21.07				72.71
	03/22/06	20.16				73.62
	08/28/06	22.16				71.62
	11/05/06	20.94				72.84
	02/07/07	19.65				74.13
	05/03/07	20.57				73.21
	08/21/07	22.38				71.40
	12/12/07	22.51				71.27
02/14/08	20.72			73.06		
MW-11	05/08/02	16.22			83.20	66.98
	07/01/03	16.53				66.67
	07/30/03	16.70				66.50
	09/15/03	17.35				65.85
	10/02/03	16.40				66.80
	10/23/03	17.83				65.37
	12/18/03	17.58				65.62
	03/31/04	16.21				66.99
	09/29/04	15.92				67.28
	01/11/05	15.93				67.27
	03/17/05	16.86				66.34
	08/09/05	15.80				67.40
	11/01/05	18.22				64.98
	03/22/06	17.28				65.92
	08/28/06	19.09				64.11
	11/05/06	17.79				65.41
	02/07/07	16.44				66.76
	05/03/07	17.67				65.53
	08/21/07	19.12				64.08
	12/12/07	19.19				64.01
02/14/08	16.90			66.30		
MW-12	05/08/02	2.80			58.69	55.89
	07/01/03	3.16				55.53
	07/30/03	2.55				56.14
	09/15/03	3.26				55.43
	10/02/03	2.60				56.09
	10/23/03	3.50				55.19
	12/18/03	2.97				55.72
	03/31/04	3.19				55.50
	09/29/04	3.02				55.67
	01/11/05	3.10				55.59
	03/17/05	3.12				55.57
	08/09/05	2.72				55.97
	11/01/05	3.63				55.06
	03/22/06	3.23				55.46
	08/28/06	3.84				54.85
	11/05/06	3.48				55.21
	02/07/07	3.15				55.54
	05/03/07	3.69				55.00
	08/21/07	4.14				54.55
	12/12/07	3.72				54.97
02/14/08	3.15			55.54		

Historical Groundwater Elevation And Product Thickness Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
MW-13	05/08/02	6.29			77.72	71.43
	07/01/03	6.44				71.28
	07/30/03	N/L				N/L
	09/15/03	6.36				71.36
	10/02/03	6.24				71.48
	10/23/03	6.78				70.94
	12/18/03	7.51				70.21
	03/31/04	6.62				71.10
	09/29/04	6.28				71.44
	01/11/05	6.44				71.28
	03/17/05	6.52				71.20
	08/09/05	10.52				67.20
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	N/L				N/L
	08/28/06	N/L				N/L
	02/07/07	N/L				N/L
	05/03/07	N/L				N/L
	08/21/07	N/L				N/L
	12/12/07	N/L				N/L
02/14/08	N/L			N/L		
MW-14	05/08/02	2.00			59.19	57.19
	07/01/03	2.28				56.91
	07/30/03	2.03				57.16
	09/15/03	2.42				56.77
	10/02/03	1.98				57.21
	10/23/03	2.67				56.52
	12/18/03	1.58				57.61
	03/31/04	2.03				57.16
	09/29/04	1.77				57.42
	01/11/05	1.92				57.27
	03/17/05	2.14				57.05
	08/09/05	1.75				57.44
	11/01/05	N/L				N/L
	03/22/06	N/L				N/L
	08/28/06	3.36				55.83
	11/05/06	N/L				N/L
	02/07/07	N/L				N/L
	05/03/07	2.94				56.25
	08/21/07	3.85	3.82	0.03		55.36
	12/12/07	3.41	3.12	0.29		56.01
02/14/08	2.09			57.10		
MW-15	05/08/02	10.82			71.52	60.70
	07/01/03	10.76				60.76
	07/30/03	10.11				61.41
	09/15/03	11.00				60.52
	10/02/03	10.20				61.32
	10/23/03	11.07				60.45
	12/18/03	11.88				59.64
	03/31/04	11.02				60.50
	09/29/04	10.67				60.85
	01/11/05	10.83				60.69
	03/17/05	10.61				60.91
	08/09/05	10.68				60.84
	11/01/05	11.32				60.20
	03/22/06	NG				NG
	08/28/06	11.62				59.90
	11/05/06	NM				NM
	02/07/07	NM				NM
	05/03/07	NM				NM
	08/21/07	DRY				DRY
	02/14/08	NM				DRY

Historical Groundwater Elevation And Product Thickness Data

Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Location	Date	Depth To Water	Depth To Product	Product Thickness	Well Head Elevation	Groundwater Elevation
DMW-1	05/08/02	23.88			103.27	79.39
	07/01/03	23.61				79.66
	07/30/03	24.24				79.03
	09/15/03	24.60				78.67
	10/02/03	24.00				79.27
	10/23/03	24.50				78.77
	12/18/03	24.11				79.16
	03/31/04	23.61				79.66
	09/29/04	22.72				80.55
	01/11/05	22.97				80.30
	03/17/05	24.68				78.59
	08/09/05	22.66				80.61
	11/01/05	25.11				78.16
	03/22/06	24.71				78.56
	08/28/06	26.95				76.32
	11/05/06	25.85				77.42
	02/07/07	24.59				78.68
	05/03/07	24.93				78.34
08/21/07	26.89			76.38		
12/12/07	27.62			75.65		
02/14/08	26.18			77.09		
DMW-2	05/08/02	17.83			86.21	68.38
	07/01/03	16.67				69.54
	07/30/03	17.20				69.01
	09/15/03	17.31				68.90
	10/02/03	16.80				69.41
	10/23/03	17.63				68.58
	12/18/03	17.11				69.10
	03/31/04	15.75				70.46
	09/29/04	16.49				69.72
	01/11/05	16.44				69.77
	03/17/05	17.22				68.99
	08/09/05	16.71				69.50
	11/01/05	18.08				68.13
	03/22/06	17.40				68.81
	08/28/06	18.72				67.49
	11/05/06	18.00				68.21
	11/05/06	18.93				67.28
	05/03/07	18.81				67.40
08/21/07	19.15			67.06		
12/12/07	21.40			64.81		
02/14/08	20.86			65.35		
DMW-4	05/08/02	24.30			103.22	78.92
	07/01/03	23.93				79.29
	07/30/03	24.75				78.47
	09/15/03	24.95				78.27
	10/02/03	24.45				78.77
	10/23/03	24.95				78.27
	12/18/03	24.39				78.83
	03/31/04	23.88				79.34
	09/29/04	23.18				80.04
	01/11/05	23.32				79.90
	03/17/05	25.08				78.14
	08/09/05	22.96				80.26
	11/01/05	26.51				76.71
	03/22/06	25.00				78.22
	08/28/06	27.33				75.89
	11/05/06	26.39				76.83
	02/07/07	24.59				78.63
	05/03/07	25.48				77.74
08/21/07	25.48			77.74		
12/12/07	28.23			74.99		
02/14/08	26.44			76.76		

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-1	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
	07/01/03	10,000	34,000	4,400	23,000	34,000	1,200			106,600.00
	07/30/03	7,600	28,000	6,300	32,000	25,000.0	2,500			101,400.00
	12/18/03	2,200	6,200	910	5,800	16,000	2,500			33,610.00
	03/31/04	3,400	9,300	1,100	6,200	20,000	1,200			41,200.00
	09/29/04	3,200	7,300	<1,000	4,500	12,000	<5,000			27,000.00
	03/17/05	5,600	9,550	1,570	7,610	19,300	325			43,955.00
	08/09/05	16,900	42,600	3,520	19,000	115,000	705			197,725.00
	11/01/05	44,390	26,540	3,700	21,680	173,000	637,000			906,310.00
	03/22/06	20,760	41,100	3,100	11,700	103,000	<4,000			179,600.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	08/28/06	44,390	26,540	3,700	21,680	173,000	637,000	0.53		906,310.00
	02/07/07	44,390	26,540	3,700	21,680	173,000	637,000	0.16		906,310.00
	05/03/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00
	08/21/07	11,800	27,800	2,650	13,300	74,600	<4000			130,150.00
	12/12/07	226,000	301,000	280,000	278,000	5,110,000	2,000	0.81		6,197,000.00
	02/14/08	NS	NS	NS	NS	NS	NS	0.03		0.00
SSTL	22	4,497	3,148	44,969	180	112				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-2	05/07/02	13	8.0	1.0	5.0	5.0	5.0			37.00
	07/01/03	4.7	5.0	1.0	3.0	1.0	5.0			19.70
	07/30/03	5.8	5.0	1.0	5.3	1.0	5.0			23.10
	12/18/03	2.2	5.0	1.0	3.0	1.0	5.0			17.20
	03/31/04	2.6	5.0	1.0	3.0	1.0	5.0			17.60
	09/29/04	14	<25	<5.0	<15	<5.0	<25			14.00
	03/17/05	13	5	<1.0	5	<1.0	<2.0			22.40
	08/09/05	39.7	14.5	1.2	27.5	<1.0	<2.0			82.90
	11/01/05	3.8	1.6	<1.0	<3.0	<1.0	<2.0			5.40
	03/22/06	11.8	4.2	<1.0	3.4	<1.0	<2.0			19.40
	08/28/06	32.0	3.1	<1.0	4.5	<1.0	<2.0			39.60
	08/28/06	8.2	<1.0	<1.0	<3	<1.0	<2.0			3.20
	02/07/07	6.9	2.1	<1.0	4.3	<1.0	<2.0			12.40
	05/03/07	15.0	3.5	<1.0	5.4	<1.0	<2.0			23.90
	08/21/07	56.4	6.6	<1.0	20.0	<1.0	<2.0			83.00
	12/12/07	7.1	0.7	<1.0	2.6	<1.0	<2.0			10.42
	02/14/08	3.6	<1.0	<1.0	1.0	<1.0	<2.0			4.59
SSTL	13	8.0	1.0	5.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-3	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	1.4	<1.0	<3.0	<1.0	<2.0			1.40
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	0.4	<1.0	1.3	<1.0	<2.0			1.74
	02/14/08	<1.0	<1.0	<1.0	0.7	<1.0	<2.0			0.65
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.4	0.0	0.0	0.0	0.0				

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Sаем, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-4	05/07/02	1,500	5,320	620	3,360	810	500			12,110.00
	07/01/03	4,800	14,000	2,300	12,000	12,000	2,600			47,700.00
	07/30/03	4,000	14,000	2,700	13,000	2,100	500			36,300.00
	12/18/03	1,100	2,400	230	1,900	1,200	250			7,080.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	53	<25	7.1	70	210	<25			340.10
	03/17/05	<1.0	<1.0	<1.0	<3.0	17	<2.0			16.80
	08/09/05	<1.0	<1.0	<1.0	<3.0	5.9	<2.0			5.90
	11/01/05	3,720	3,660	745	4,170	4,540	<200			16,835.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.2	<2.0			1.20
	08/28/06	43	7	4	88	153.0	3.6			298.70
	11/05/06	195	24	19	164	225.0	11.6			638.90
	02/07/07	25	-59	13	67	47.1	<2.0			
	05/03/07	95	120	39	199	56.3	8.1			517.30
	08/21/07	0	<1.0	<1.0	3	52.4	<2.0			55.63
	12/12/07	32	3	1	31	55.7	1.5			124.20
	02/14/08	<1.0	<1.0	<1.0	<3.0	0.8	<2.0			0.83
SSTL	1,500	5,320	620	3,360	810	500.0				
> SSTL	0	0	0	0	0	0				
MW-5	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	4.2	17.0	3.6	18.0	2.2	<5.0			45.00
	12/18/03	2.3	<5.0	<1.0	3.2	1.3	<5.0			6.80
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/14/08	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
MW-6	05/07/02	1,780	4,950	490	2,880	6,350	500.0			16,950.00
	07/01/03	2,200	6,600	820	4,400	12,000	2,500			28,520.00
	07/30/03	4,200	13,000	1,600	8,900	21,000	400			49,100.00
	12/18/03	5,100	14,000	1,700	11,000	19,000	2,500			53,300.00
	03/31/04	280	940	100	2,200	900	250			4,570.00
	09/29/04	2,400	<5,000	<1,000	<3,000	17,000	<5,000			19,400.00
	03/17/05	3,490	7,500	952	5,380	16,500	282			33,084.00
	08/09/05	1,370	4,630	295	2,220	7,640	<400			16,155.00
	11/01/05	979	2,220	282	1,810	9,410	<200			14,701.00
	03/22/06	1,280	3,480	399	2,880	8,600	<200			16,639.00
	08/28/06	99	76	<2.0	243	22	<4.0			439.60
	11/05/06	34.0	60.9	<2.0	194	355	<20			643.90
	02/07/07	4,970.0	18,100.0	2,070	12,000	30,500	<500			67,640.00
	05/03/07	1,600.0	5,430.0	672	4,060	11,000	<1000			22,762.00
	08/21/07	167.0	416.0	7	227	213	<10			1,029.80
	12/12/07	534.0	1,310.0	54	537	41	11.6			2,487.60
	02/14/08	162.0	750.0	26	575	11	11.8			1,535.40
SSTL	1,780	4,950	490	2,880	6,350	500.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	PP	Initial Mass	Current Mass	
MW-7	05/07/02	34	20	<1.0	8.0	7.0	<5.0			69.00	
	07/01/03	37	36	1.7	20	9.2	<5.0			103.90	
	07/30/03	18	18	<1.0	10	<1.0	<5.0			45.70	
	12/18/03	41	20	<1.0	<3.0	<1.0	<5.0			61.00	
	03/31/04	30	34	<1.0	16	<1.0	<5.0			80.00	
	09/29/04	370	500	<100	<300	<100	<500			870.00	
	03/17/05	505	590	34	280	65	<2.0			1,473.40	
	08/09/05	52	56	2.6	34	9.2	<2.0			154.00	
	11/01/05	27	42	3.7	24	<1.0	<2.0			96.10	
	03/22/06	Not Sampled									
	08/28/06	99	95	3.6	127	7	<2.0			331.90	
	11/05/06	50	44.5	<1.0	23.5	1.9	<2.0			119.90	
	02/07/07	182	261.0	12.8	202.0	18.7	<2.0			676.50	
	05/03/07	132	104.0	8.2	104.0	8.5	<10.0			356.70	
	08/21/07	179	163.0	8.0	178.0	10.5	<4.0			538.50	
	12/12/07	200	88.3	<1.0	162.0	<1.0	<2.0			450.30	
	02/14/08	59	59.8	3.0	46.9	2.0	<2.0			164.50	
	SSTL	22	20	1.0	8.0	7.0	5.0				
	> SSTL	36.8	39.6	2.0	32.9	0.0	0.0				
	MW-8	05/07/02	226,000	301,000	280,000	278,000	5,110,000	2,000			6,197,000.00
07/01/03		12,000	51,000	7,800	40,000	11,000	2,500			124,300.00	
07/30/03		12,000	40,000	3,600	18,000	15,000	660			89,260.00	
12/18/03		10,000	27,000	3,300	18,000	14,000	2,500			74,800.00	
03/31/04		17,000	140,000	32,000	180,000	8,600	<25,000			377,600.00	
09/29/04		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
03/17/05		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
08/09/05		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
11/01/05		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
03/22/06		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
08/28/06		44,390	26,540	3,700	21,680	173,000	637,000	2.41		906,310.00	
11/05/06		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
02/07/07		44,390	26,540	3,700	21,680	173,000	637,000	0.89		906,310.00	
05/03/07		44,390	26,540	3,700	21,680	173,000	637,000			906,310.00	
08/21/07		226,000	301,000	280,000	278,000	5,110,000	2,000	4.51		6,197,000.00	
12/12/07		226,000	301,000	280,000	278,000	5,110,000	2,000	0.39		6,197,000.00	
02/14/08		NS	NS	NS	NS	NS	NS	1.93		0.00	
SSTL		204	40,888	28,622	278,000	1,362	1,021				
> SSTL		0.0	0.0	0.0	0.0	0.0	0.0				
MW-9		05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00	
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	03/31/04	<1.0	<5.0	1.2	8.8	<1.0	<5.0			10.00	
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	03/22/06	<1.0	1.5	<1.0	<3.0	<1.0	<2.0			1.50	
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	02/14/08	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL	5.0	1,000	700	10,000	40	25					

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
MW-10	08/07/02	115	185	68.0	328	86	9.0			791.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	170	420	43	240	540	6.5			1,419.50
	12/18/03	89	280	74	480	91	25.0			1,039.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	1.7	4.4	<1.0	<3.0	18	<2.0			24.00
	11/01/05	10,000	23,500	1,410	7,510	21,600	<1,000			64,020.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	79	98	16	69	169	<2.0			430.90
	11/05/06	203	412	67	226	137	4.7			1,049.90
	02/07/07	376	1,080	454	2,440	507	82.8			4,939.80
	05/03/07	1,990	4,990	846	4,420	1,770	136.0			14,152.00
	08/21/07	9,730	31,500	2,880	13,900	13,100	317.0			71,427.00
	12/12/07	2,120	8,880	1,690	8,420	1,660	321.0			23,091.00
	02/14/08	401	129	167	721	296	45.7			1,759.70
SSTL		115	185	68	328	86	9.0			
> SSTL		266.0	0.0	99.0	393.0	210.0	36.7			
MW-11	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	42.2	<1.0	<1.0	93.6	4.5	3.8			144.10
	03/22/06	<1.0	<1.0	<1.0	<3.0	1.9	<2.0			1.90
	08/28/06	6.4	<1	<1	82.6	4.4	2.5			95.90
	11/05/06	2.8	<1	<1	8.9	4.7	<2.0			16.40
	02/07/07	<1	<1	<1	8.9	1.1	<2.0			10.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	2.0	<1.0	<1.0	9.2	5.8	<2.0			17.00
	12/12/07	1.9	<1.0	<1.0	1.6	3.5	<2.0			7.00
	02/14/08	<1.0	1.8	1.4	7.3	1.9	1.0			13.40
SSTL		1.0	1.0	1.0	1.0	5.0	5.0			
> SSTL		0.0	0.8	0.4	6.3	0.0	0.0			
MW-12	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	1.5	24.8	10.1	58.6	<1.0	11.3			106.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/14/08	21	54.5	10.5	62	40	4.4			192.50
RBSL		5.0	1,000	700	10,000	40	25			

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass	
MW-13	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00	
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00	
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
	08/09/05	NS	NS	NS	NS	NS	NS			0.00	
	11/01/05	NS	NS	NS	NS	NS	NS			0.00	
	03/22/06	NS	NS	NS	NS	NS	NS			0.00	
	08/28/06	NS	NS	NS	NS	NS	NS			0.00	
	11/05/06	NS	NS	NS	NS	NS	NS			0.00	
	02/07/07	NS	NS	NS	NS	NS	NS			0.00	
	05/03/07	NS	NS	NS	NS	NS	NS			0.00	
	08/21/07	NS	NS	NS	NS	NS	NS			0.00	
12/12/07	NS	NS	NS	NS	NS	NS			0.00		
02/14/08	NS	NS	NS	NS	NS	NS			0.00		
RBSL	5.0	1,000	700	10,000	40	25				0.00	
MW-14	05/07/02	3,780	13,800	27,000	14,700	7,010	500			66,790.00	
	07/01/03	3,500	10,000	1,900	10,000	5,300	500			31,200.00	
	07/30/03	3,100	9,700	1,800	9,300	4,300	500			28,700.00	
	12/18/03	3,300	11,000	2,000	11,000	4,100	500			31,900.00	
	03/31/04	5,500	17,000	2,600	13,000	7,100	570			45,770.00	
	09/29/04	3,200	12,000	1,600	9,100	3,200	<5,000			29,100.00	
	03/17/05	5,140	13,000	1,710	10,900	4,970	339			36,059.00	
	08/09/05	3,290	10,600	1,820	11,000	4,950	<400			31,660.00	
	11/01/05	NL	NL	NL	NL	NL	NL			0.00	
	03/22/06	NL	NL	NL	NL	NL	NL			0.00	
	08/28/06	2,010.0	4,080.0	1,160.0	6,320.0	3,320.0	261.0			17,151.00	
	11/05/06	NL	NL	NL	NL	NL	NL			0.00	
	02/07/07	NL	NL	NL	NL	NL	NL			0.00	
	05/03/07	3,640.0	11,700.0	1,950.0	10,600.0	5,340.0	527.0			33,757.00	
	08/21/07	226,000	301,000	280,000	278,000	5,110,000	2,000	0		6,197,000.00	
	12/12/07	226,000	301,000	280,000	278,000	5,110,000	2,000	0		6,197,000.00	
	02/14/08	3,640	14,500	2,700	14,300	5,500	439	0		41,079.00	
	SSTL	5.0	1,000	700	10,000	40	25				11,770.00
	> SSTL	3,635.0	13,500.0	2,000.0	4,300.0	5,460.0	414.0				
	MW-15	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
07/01/03		<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
07/30/03		N/A	N/A	N/A	N/A	N/A	N/A			0.00	
12/18/03		<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
03/31/04		<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
09/29/04		<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00	
03/17/05		<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
08/09/05		NS	NS	NS	NS	NS	NS			0.00	
11/01/05		NS	NS	NS	NS	NS	NS			0.00	
03/22/06		NS	NS	NS	NS	NS	NS			0.00	
08/28/06		NS	NS	NS	NS	NS	NS			0.00	
11/05/06		NS	NS	NS	NS	NS	NS			0.00	
02/07/07		NS	NS	NS	NS	NS	NS			0.00	
05/03/07		NS	NS	NS	NS	NS	NS			0.00	
08/21/07		NS	NS	NS	NS	NS	NS			0.00	
12/12/07	NS	NS	NS	NS	NS	NS			0.00		
02/14/08	NS	NS	NS	NS	NS	NS			0.00		
RBSL	5.0	1,000	700	10,000	40	25				0.00	

Table 2

Historical Groundwater Analytical Results
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, Oconee County, South Carolina
 UST Permit Number: 03439
 SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
DMW-1	05/07/02	215	430	50	50	1,780	250			2,775.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	4.2	<5.0			4.20
	12/18/03	1.5	<5.0	<1.0	<3.0	<1.0	<5.0			1.50
	03/31/04	<1.0	<15.0	<1.0	<3.0	3.9	<5.0			3.90
	09/29/04	8.4	<25	<5.0	<15	130	<25			138.40
	03/17/05	<1.0	1.2	<1.0	<3.0	8.1	<2.0			9.30
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<5.0	<5.0	<5.0	<15	<5.0	<10			0.00
	03/22/06	3.0	35.1	16	92.2	21.9	13.1			181.30
	08/28/06	<1.0	<1.0	<1.0	<3.0	20.3	<2.0			20.30
	11/05/06	<1.0	<1.0	<1.0	<3.0	90.8	<2.0			90.80
	02/07/07	9.2	2.5	<1.0	9.7	164.0	4.0			185.40
	05/03/07	<1.0	<1.0	<1.0	<3.0	5.2	<2.0			5.20
	08/21/07	<1.0	<1.0	<1.0	<3.0	28.5	<2.0			28.50
	12/12/07	<1.0	<1.0	<1.0	<3.0	2.2	<2.0			2.20
	02/14/08	<1.0	<1.0	<1.0	<3.0	11.9	<2.0			11.90
SSTL	215	430	50	50	1,780	250				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
DMW-2	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	6.4	<5.0			6.40
	07/30/03	<1.0	8.4	6.8	30.0	<1.0	6.7			51.90
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	0.3	<2.0			0.26
	12/12/07	<1.0	<1.0	<1.0	<3.0	0.3	<2.0			0.26
	02/14/08	<1.0	0.4	<1.0	<3.0	0.3	<2.0			0.65
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				
DMW-4	05/07/02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	12/12/07	<1.0	0.3	<1.0	<3.0	<1.0	<2.0			0.31
	02/14/08	<1.0	0.3	<1.0	<3.0	<1.0	<2.0			0.31
SSTL	1.0	1.0	1.0	1.0	5.0	5.0				
> SSTL	0.0	0.0	0.0	0.0	0.0	0.0				

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalene	FP	Initial Mass	Current Mass
CK-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	2.6	<5.0	<1.0	4.8	4.5	<5.0			11.90
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	11	18	4.1	20.0	9.0	<5.0			62.10
	09/29/04	16	30	6.1	32.0	22.0	<5.0			106.10
	03/17/05	10.4	17.5	4.1	20.8	12.3	<2.0			65.10
	08/09/05	7.6	17.6	2.9	15.8	6.9	<2.0			50.80
	11/01/05	20.3	38.2	8.8	48.8	27.3	<2.0			143.40
	03/22/06	6.6	12.9	3.2	15.2	7.8	<2.0			45.70
	08/28/06	13.1	29.0	6.7	27.8	16.7	<2.0			93.30
	11/05/06	13.9	22.3	6.7	34.3	17.8	<2.0			95.00
	02/07/07	7.9	16.4	4.0	21.1	9.8	<2.0			59.20
	05/03/07	10.8	20.4	5.2	28.2	13.2	<2.0			77.80
	08/21/07	40.4	62.8	19.3	108.0	53.2	3.2			286.90
	12/12/07	13.2	24.0	6.9	33.9	19.4	1.2			98.60
02/14/08	8.7	16.8	4.9	23.9	11.9	1.2			67.40	
RBSL		5.0	1,000	700	10,000	40	25			
CK-2	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	NS	NS	NS	NS	NS	NS			0.00
	11/01/05	NS	NS	NS	NS	NS	NS			0.00
	03/22/06	NS	NS	NS	NS	NS	NS			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	NS	NS	NS	NS	NS	NS			0.00
	02/07/07	NS	NS	NS	NS	NS	NS			0.00
	05/03/07	NS	NS	NS	NS	NS	NS			0.00
	08/21/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
12/12/07	NS	NS	NS	NS	NS	NS			0.00	
02/14/08	NS	NS	NS	NS	NS	NS			0.00	
RBSL		5.0	1,000	700	10,000	40	25			
CK-3	08/09/05	14.4	33.3	7.1	41.1	25.8	<2.0			121.70
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	23.3	48.7	10.1	48.2	33.8	<2.0			165.10
	11/05/06	25.2	49.1	11.4	63.8	49.3	<2.0			198.80
	02/07/07	21.7	57.5	10.3	57.9	30.8	<2.0			178.20
	05/03/07	23.1	55.6	9.8	52.7	38.0	<2.0			179.20
	08/21/07	NS	NS	NS	NS	NS	NS			0.00
	12/12/07	4.5	8.8	2.2	11.7	50.2	0.6			77.99
	02/14/08	21.0	54.5	10.5	62.4	39.7	4.4			192.50
RBSL		5.0	1,000	700	10,000	40	25			

Table 2

Historical Groundwater Analytical Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169

Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	FP	Initial Mass	Current Mass
WW-1	05/07/02	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	07/01/03	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	07/30/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	12/18/03	N/A	N/A	N/A	N/A	N/A	N/A			0.00
	03/31/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	09/29/04	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0			0.00
	03/17/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/09/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/01/05	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	03/22/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/28/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	11/05/06	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	02/07/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	05/03/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00
	08/21/07	NS	NS	NS	NS	NS	NS			0.00
12/12/07	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
02/14/08	<1.0	<1.0	<1.0	<3.0	<1.0	<2.0			0.00	
RBSL		5.0	1,000	700	10,000	40	25			
TOTAL MASS										950,716
TOTAL SSTL MASS		3,881	57,303	33,705	339,605	10,645	2,452			447,591
INITIAL MASS ABOVE SSTL									12,046,007	
CURRENT MASS ABOVE SSTL									30,453	
PERCENT TOTAL MASS REDUCTION ABOVE SSTL									99.75	

Reported in parts per billion (µg/l)
 ND: Compound not detected
 BDL: Below analytical Detection Limits
 SSTL: Site Specific Treatment Level

APPENDIX C
Field Data Information Sheets for Groundwater Sampling

SEI Environmental

SC Monitoring Well Gauging Data Sheet

Site Name: HWY 11 GROCELY WO# 302043

Date 2/14/08

Well ID	Total Depth (feet)	Well Dia. (in.)	Depth to Product (feet)	Product Thickness (feet)	Depth to Water (feet)	Notes
MW-7					29.64	
MW-6					20.77	
MW-70					20.72	
MW-4					23.89	
DMW-4					26.44	
DMW-1					26.18	
MW-2					27.53	
MW-5					30.60	
MW-3					26.21	
MW-1			25.69	0.03'	25.72	N.S
DMW-2					20.86	
MW-8			21.61	1.93'	23.54	N.S
MW-11					16.90	
MW-9					2.22	
MW-12					3.15	
MW-14					2.09	
Purging is only necessary if water table is not across the screening interval. (Usually DMW-1 only)						

Analysis: EPA Method 8260B for BTEX, MTBE, and Naphthalene

2-inch diameter well: Well Volume = (water column) x (0.163 gallon/foot)

4-inch diameter well: Well Volume = (water column) x (0.652 gallon/foot)

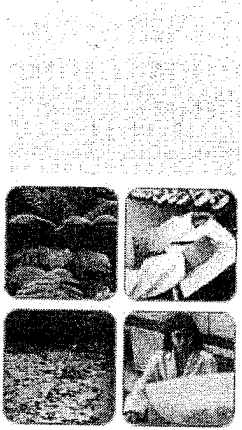
Purge amount = Well Volume x 3

APPENDIX D
Laboratory Analytical Results and Chain-of-Custody



IT'S ALL IN THE CHEMISTRY

02/21/08



Technical Report for

SEI-Columbia, SC
Hwy 11 Grocery; Salem, SC

302043

Accutest Job Number: F55712

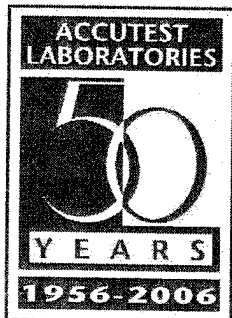
Sampling Date: 02/14/08

Report to:

darker@sei-environmental.com

ATTN: Distribution6

Total number of pages in report: 33



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

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.

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Sample Summary

SEI-Columbia, SC

Job No: F55712

Hwy 11 Grocery; Salem, SC
 Project No: 302043

Sample Number	Collected		Matrix Received	Code	Type	Client Sample ID
	Date	Time By				
F55712-1	02/14/08	13:05	HPRR 02/16/08	AQ	Ground Water	MW-7
F55712-2	02/14/08	13:11	HPRR 02/16/08	AQ	Ground Water	MW-6
F55712-3	02/14/08	13:18	HPRR 02/16/08	AQ	Ground Water	MW-10
F55712-4	02/14/08	13:24	HPRR 02/16/08	AQ	Ground Water	MW-4
F55712-5	02/14/08	13:40	HPRR 02/16/08	AQ	Ground Water	DMW-4
F55712-6	02/14/08	13:43	HPRR 02/16/08	AQ	Ground Water	DMW-1
F55712-7	02/14/08	13:56	HPRR 02/16/08	AQ	Ground Water	MW-2
F55712-8	02/14/08	14:03	HPRR 02/16/08	AQ	Ground Water	MW-5
F55712-9	02/14/08	14:08	HPRR 02/16/08	AQ	Ground Water	WSW-1
F55712-10	02/14/08	14:13	HPRR 02/16/08	AQ	Ground Water	MW-3
F55712-11	02/14/08	15:00	HPRR 02/16/08	AQ	Ground Water	DMW-2
F55712-12	02/14/08	15:15	HPRR 02/16/08	AQ	Ground Water	MW-11
F55712-13	02/14/08	15:32	HPRR 02/16/08	AQ	Ground Water	MW-9



Sample Summary (continued)

SEI-Columbia, SC

Job No: F55712

Hwy 11 Grocery, Salem, SC
Project No: 302043

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F55712-14	02/14/08	15:38	HPRR 02/16/08	AQ	Ground Water	MW-12
F55712-15	02/14/08	15:42	HPRR 02/16/08	AQ	Ground Water	CK-3
F55712-16	02/14/08	15:48	HPRR 02/16/08	AQ	Ground Water	CK-1
F55712-17	02/14/08	15:51	HPRR 02/16/08	AQ	Ground Water	MW-14



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Section 2

2

Sample Results

Report of Analysis



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Report of Analysis

Client Sample ID:	MW-7	Date Sampled:	02/14/08
Lab Sample ID:	F55712-1	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0024580.D	1	02/19/08	MM	n/a	n/a	VN1044
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	58.8	1.0	0.20	ug/l	
108-88-3	Toluene	59.8	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	3.0	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	40.9	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-6	Date Sampled:	02/14/08
Lab Sample ID:	F55712-2	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025319.D	5	02/18/08	MM	n/a	n/a	VM1045
Run #2	N0024585.D	10	02/19/08	MM	n/a	n/a	VN1044

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	162	5.0	1.0	ug/l	
108-88-3	Toluene	750 ^a	10	2.7	ug/l	
100-41-4	Ethylbenzene	25.9	5.0	1.0	ug/l	
1330-20-7	Xylene (total)	575	15	2.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.7	5.0	1.3	ug/l	
91-20-3	Naphthalene	11.8	10	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	91%	76-127%
2037-26-5	Toluene-D8	98%	95%	86-112%
460-00-4	4-Bromofluorobenzene	98%	96%	84-120%

(a) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID: MW-10	Date Sampled: 02/14/08
Lab Sample ID: F55712-3	Date Received: 02/16/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0024586.D	5	02/19/08	MM	n/a	n/a	VN1044
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	401	5.0	1.0	ug/l	
108-88-3	Toluene	129	5.0	1.4	ug/l	
100-41-4	Ethylbenzene	167	5.0	1.0	ug/l	
1330-20-7	Xylene (total)	721	15	2.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	296	5.0	1.3	ug/l	
91-20-3	Naphthalene	45.7	10	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

Report of Analysis

Client Sample ID:	MW-4	Date Sampled:	02/14/08
Lab Sample ID:	F55712-4	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025302.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.83	1.0	0.25	ug/l	J
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID: DMW-4	Date Sampled: 02/14/08
Lab Sample ID: F55712-5	Date Received: 02/16/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025303.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	DMW-1	Date Sampled:	02/14/08
Lab Sample ID:	F55712-6	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025304.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.9	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID: MW-2	Date Sampled: 02/14/08
Lab Sample ID: F55712-7	Date Received: 02/16/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025305.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.6	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	0.99	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Client Sample ID: MW-5	Date Sampled: 02/14/08
Lab Sample ID: F55712-8	Date Received: 02/16/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Hwy 11 Grocery; Salem, SC	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025306.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

Report of Analysis

Client Sample ID:	WSW-1	Date Sampled:	02/14/08
Lab Sample ID:	F55712-9	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025322.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	02/14/08
Lab Sample ID:	F55712-10	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025307.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	0.65	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	DMW-2	Date Sampled:	02/14/08
Lab Sample ID:	F55712-11	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025308.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	0.36	1.0	0.27	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.29	1.0	0.25	ug/l	J
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-11	Date Sampled:	02/14/08
Lab Sample ID:	F55712-12	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0024577.D	1	02/19/08	MM	n/a	n/a	VN1044
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	1.8	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	1.4	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	7.3	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.25	ug/l	
91-20-3	Naphthalene	1.0	2.0	0.44	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-9	Date Sampled:	02/14/08
Lab Sample ID:	F55712-13	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025310.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-12	Date Sampled:	02/14/08
Lab Sample ID:	F55712-14	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0024578.D	1	02/19/08	MM	n/a	n/a	VN1044
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

2.15
2

Client Sample ID:	CK-3	Date Sampled:	02/14/08
Lab Sample ID:	F55712-15	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025321.D	1	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	21.0	1.0	0.20	ug/l	
108-88-3	Toluene	54.5	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	10.5	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	62.4	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	39.7	1.0	0.25	ug/l	
91-20-3	Naphthalene	4.4	2.0	0.44	ug/l	B

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	CK-1	Date Sampled:	02/14/08
Lab Sample ID:	F55712-16	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0024579.D	1	02/19/08	MM	n/a	n/a	VN1044
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.7	1.0	0.20	ug/l	
108-88-3	Toluene	16.8	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	4.9	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	23.9	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.9	1.0	0.25	ug/l	
91-20-3	Naphthalene	1.2	2.0	0.44	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

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

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

Report of Analysis

Client Sample ID:	MW-14	Date Sampled:	02/14/08
Lab Sample ID:	F55712-17	Date Received:	02/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Hwy 11 Grocery; Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0025317.D	200	02/18/08	MM	n/a	n/a	VM1045
Run #2							

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3640	200	40	ug/l	
108-88-3	Toluene	14500	200	54	ug/l	
100-41-4	Ethylbenzene	2700	200	40	ug/l	
1330-20-7	Xylene (total)	14300	600	110	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5500	200	50	ug/l	
91-20-3	Naphthalene	439	400	88	ug/l	B

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody





Accutest Laboratories Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # **F55712** PAGE **2** OF **2**
Accutest Quote # _____ SKIFF# _____

Client / Reporting Information		Project Information		Analytical Information												Matrix Codes			
Company Name: SEI ENVIRONMENTAL INC		Project Name: HWY 11 GROCERY														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe			
Address: 5100 REAGAN DR. STE 5		Street: S.C. Hwy 11																	
City: CHARLOTTE NC State: NC Zip: 28206		City: SALEM State: SC																	
Project Contact: CHRIS ROEGGS		Project #: 302043																	
Phone #: 704-596-8624		Fax #: 704-596-8605																	
Sampler(s) Name(s) (Printed)		Client Purchase Order #																	
Accutest Sample #	Field ID / Point of Collection	COLLECTION		CONTAINER INFORMATION												LAB USE ONLY			
		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	GLASS	PLASTIC	OTHER	NON-TOXIC	TOXIC	HAZARDOUS	OTHER	OTHER	OTHER				
13	MW-9	2/14	1532	HR	RR	GW	3												
14	MW-12		1538																
15	CK-3		1548																
16	CK-1		1548																
17	MW-14		1551																
TURNAROUND TIME (Business Days)		Approved By: / Rush Code		Data Deliverable Information												Comments / Remarks			
<input checked="" type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER				<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> PREDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S															
Emergency or Rush T/A Data Available VIA Email or Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler: ALT	Date Time: 2/15/08 17:00	Received By: FX	Relinquished by: FX	Date Time: 2-16-08	Received By: 4 Hoge Control 09:00														
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:														
5		6	7		8														
Lab Use Only: Custody Seal in Place: Y N		Temp Blank Provided: Y N		Preserved where Applicable: Y N		Total # of Coolers:		Cooler Temperature (s) Celsius:											

8260 B for BTEX
MISE, NAPTH

F55712: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F55712 CLIENT: SEI PROJECT: HWY 11 GROCERY
 DATE/TIME RECEIVED: 2-16-08 ^{09:00} # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.8
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 86004340 3673

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OF LAB FILTERED METALS ? 0

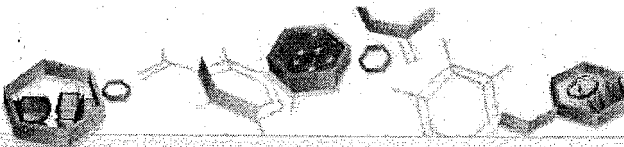
SUMMARY OF COMMENTS: _____

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
 - CORRECT NUMBER OF CONTAINERS USED
 - SAMPLE RECEIVED IMPROPERLY PRESERVED
 - INSUFFICIENT VOLUME FOR ANALYSIS
 - TIMES ON COC DOES NOT MATCH LABEL(S)
 - ID'S ON COC DOES NOT MATCH LABEL(S)
 - VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
 - BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
 - NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
 - UNCLEAR FILTERING INSTRUCTIONS
 - UNCLEAR COMPOSITING INSTRUCTIONS
 - SAMPLE CONTAINER(S) RECEIVED BROKEN
 - % SOLIDS JAR NOT RECEIVED
 - 5035 FIELD KIT NOT FROZEN WITHIN 48 HOURS
 - RESIDUAL CHLORINE PRESENT
- (APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE SP. 2-16-08 TECHNICIAN SIGNATURE/DATE E.T. D-16-08 ASBD 12/17/07

3.1
3



IT'S ALL IN THE CHEMISTRY

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F55712
 Account: SEISCC SEI-Columbia, SC
 Project: Hwy 11 Grocery; Salem, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1045-MB	M0025301.D 1		02/18/08	MM	n/a	n/a	VM1045

The QC reported here applies to the following samples:

Method: SW846 8260B

F55712-2, F55712-4, F55712-5, F55712-6, F55712-7, F55712-8, F55712-9, F55712-10, F55712-11, F55712-13, F55712-15, F55712-17

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	0.64	2.0	0.44	ug/l	J
108-88-3	Toluene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	106%	84-120%

Method Blank Summary

Job Number: F55712
 Account: SEISCC SEI-Columbia, SC
 Project: Hwy 11 Grocery; Salem, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1044-MB	N0024576.D	1	02/19/08	MM	n/a	n/a	VN1044

4.1
4

The QC reported here applies to the following samples:

Method: SW846 8260B

F55712-1, F55712-2, F55712-3, F55712-12, F55712-14, F55712-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	2.0	0.44	ug/l	
108-88-3	Toluene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	90%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Blank Spike Summary

Job Number: F55712
 Account: SEISCC SEI-Columbia, SC
 Project: Hwy 11 Grocery; Salem, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1045-BS	M0025300.D	1	02/18/08	MM	n/a	n/a	VM1045

The QC reported here applies to the following samples:

Method: SW846 8260B

F55712-2, F55712-4, F55712-5, F55712-6, F55712-7, F55712-8, F55712-9, F55712-10, F55712-11, F55712-13, F55712-15, F55712-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.2	97	83-124
100-41-4	Ethylbenzene	25	25.3	101	87-118
1634-04-4	Methyl Tert Butyl Ether	25	23.2	93	75-116
91-20-3	Naphthalene	25	22.8	91	59-125
108-88-3	Toluene	25	25.7	103	86-116
1330-20-7	Xylene (total)	75	77.3	103	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

4.2
4

Blank Spike Summary

Job Number: F55712
Account: SEISCC SEI-Columbia, SC
Project: Hwy 11 Grocery; Salem, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1044-BS	N0024575.D	1	02/19/08	MM	n/a	n/a	VN1044

The QC reported here applies to the following samples:

Method: SW846 8260B

F55712-1, F55712-2, F55712-3, F55712-12, F55712-14, F55712-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.3	105	83-124
100-41-4	Ethylbenzene	25	25.2	101	87-118
1634-04-4	Methyl Tert Butyl Ether	25	22.9	92	75-116
91-20-3	Naphthalene	25	24.5	98	59-125
108-88-3	Toluene	25	25.8	103	86-116
1330-20-7	Xylene (total)	75	74.5	99	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	87-116%
17060-07-0	1,2-Dichloroethane-D4	91%	76-127%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	98%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F55712
 Account: SEISCC SEI-Columbia, SC
 Project: Hwy 11 Grocery; Salem, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F55712-4MS	M0025311.D 1		02/18/08	MM	n/a	n/a	VM1045
F55712-4MSD	M0025312.D 1		02/18/08	MM	n/a	n/a	VM1045
F55712-4	M0025302.D 1		02/18/08	MM	n/a	n/a	VM1045

The QC reported here applies to the following samples:

Method: SW846 8260B

F55712-2, F55712-4, F55712-5, F55712-6, F55712-7, F55712-8, F55712-9, F55712-10, F55712-11, F55712-13, F55712-15, F55712-17

CAS No.	Compound	F55712-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	23.4	94	22.6	90	3	83-124/11
100-41-4	Ethylbenzene	ND		25	23.4	94	23.0	92	2	87-118/10
1634-04-4	Methyl Tert Butyl Ether	0.83	J	25	21.3	82	21.5	83	1	75-116/10
91-20-3	Naphthalene	ND		25	20.7	83	21.7	87	5	59-125/15
108-88-3	Toluene	ND		25	23.9	96	23.6	94	1	86-116/10
1330-20-7	Xylene (total)	ND		75	70.1	93	69.1	92	1	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F55712-4	Limits
1868-53-7	Dibromofluoromethane	103%	102%	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	107%	76-127%
2037-26-5	Toluene-D8	99%	99%	100%	86-112%
460-00-4	4-Bromofluorobenzene	96%	97%	103%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F55712
 Account: SEISCC SEI-Columbia, SC
 Project: Hwy 11 Grocery; Salem, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F55712-12MS	N0024587.D 1		02/19/08	MM	n/a	n/a	VN1044
F55712-12MSD	N0024588.D 1		02/19/08	MM	n/a	n/a	VN1044
F55712-12	N0024577.D 1		02/19/08	MM	n/a	n/a	VN1044

The QC reported here applies to the following samples:

Method: SW846 8260B

F55712-1, F55712-2, F55712-3, F55712-12, F55712-14, F55712-16

CAS No.	Compound	F55712-12 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	26.7	107	25.7	103	4	83-124/11
100-41-4	Ethylbenzene	1.4	25	26.5	100	26.2	99	1	87-118/10
1634-04-4	Methyl Tert Butyl Ether	1.9	25	23.1	85	23.8	88	3	75-116/10
91-20-3	Naphthalene	1.0	25	25.9	100	25.5	98	2	59-125/15
108-88-3	Toluene	1.8	25	27.9	104	27.3	102	2	86-116/10
1330-20-7	Xylene (total)	7.3	75	83.2	101	81.0	98	3	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F55712-12	Limits
1868-53-7	Dibromofluoromethane	95%	96%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	89%	89%	91%	76-127%
2037-26-5	Toluene-D8	97%	99%	97%	86-112%
460-00-4	4-Bromofluorobenzene	97%	97%	99%	84-120%



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

APR 09 2008

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: CASE report review
Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received March 13, 2008
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The report indicates the free phase product persists in monitoring wells MW-1 and MW-8. Benzene concentrations in creek samples CK-1 and CK-3 continue to exceed risk-based screening levels. Accordingly, please have your contractor take immediate and appropriate actions to remove the free-phase product and mitigate the impact to the creek. The Program notes that no AFVR events were conducted at the site during the last quarter.

Based upon the current data, the Program calculates a **0.20%** reduction in total concentrations of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). The increase in CoC reduction is due to the disappearance of measurable free-phase product from monitoring well MW-14. Please note that your contractor's calculated CoC reduction of 99.75% does not take into account the presence of free-phase product in monitoring well MW-1 and MW-8.

The next CASE report documenting the May 2008 quarterly monitoring event is due on or before **July 1, 2008**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhcc.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

UST PROGRAM
DOCKETING # 10Steel

JPP/jpp
03439.18

enc: CoC reduction calculation sheets

cc: Laura Dell'Olio, SEI Environmental, Inc., 2025 Progress Place, Raleigh, NC 27608
(w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)

03439 Highway 11 Grocery

2/8/08 sampling

Enter Initial, SSTL and subsequent

CoC Reduction: 0.2040 %

Well		Benzene	Toluene	Ethylbenzene	Xylene	MtBE	Naphthalene	EDB	Totals
MW-1	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	22	4497	3148	44969	180	112	0	52928
	Initial > SSTL	225978	296503	276852	233031	5109820	1888	0	6144072
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSTL	225978	296503	276852	233031	5109820	1888	0	6144072
MW-2	Initial	13	8	1	5	5	5	0	37
	SSTL	13	8	1	5	5	5	0	37
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	4	1	1	1	1	2	0	10
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-3	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	1	1	2	0	7
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-4	Initial	1500	5320	620	3360	810	500	0	12110
	SSTL	1500	5320	620	3360	810	500	0	12110
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-5	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-6	Initial	1780	4950	490	2880	6350	500	0	16950
	SSTL	1780	4950	490	2880	6350	500	0	16950
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	162	750	26	575	11	12	0	1536
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-7	Initial	34	20	1	8	7	5	0	75
	SSTL	22	20	1	8	7	5	0	63
	Initial > SSTL	12	0	0	0	0	0	0	12
	Subsequent	59	60	3	41	2	2	0	167
	Subsequent > SSTL	37	40	2	33	0	0	0	112
MW-8	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	204	40888	28622	278000	1362	1021	0	350097
	Initial > SSTL	225796	260112	251378	0	5108638	979	0	5846903
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSTL	225796	260112	251378	0	5108638	979	0	5846903
MW-10	Initial	115	185	68	328	86	9	0	791
	SSTL	115	185	68	328	86	9	0	791
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	401	129	167	721	296	46	0	1760
	Subsequent > SSTL	286	0	99	393	210	37	0	1025
MW-11	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	2	1	7	2	1	0	14
	Subsequent > SSTL	0	1	0	6	0	0	0	7
MW-14	Initial	3780	13800	27000	14700	7010	500	0	66790
	SSTL	5	1000	700	10000	40	25	0	11770
	Initial > SSTL	3775	12800	26300	4700	6970	475	0	55020
	Subsequent	3640	14500	2700	14300	5500	439	0	41079
	Subsequent > SSTL	3635	13500	2000	4300	5460	414	0	29309

03439 Highway 11 Grocery

<u>Total Concentration Reduction</u>	<u>Individual Constituent Reductions</u>					
Total Initial Conc. : 12493598 µg/L	CoC	Initial	Subseq.	Initial >SSTL	Subseq. > SSTL	CoC % Reduction
Total Subsequent Conc. : 12438629 µg/L	Benzene	459442	456273	455561	455732	-0.037536137
Total SSTL Conc. : 447591 µg/L	Toluene	626718	617448	569415	570156	-0.130133558
Initial > SSTL : 12046007 µg/L	Ethylbenzene	588235	562904	554530	530331	4.363875715
Subsequent > SSTL : 12021434 µg/L	Xylenes	577336	571661	237731	237769	-0.015984453
Total Reduction: 0.20399 %	MtBE	10236073	10225829	10225428	10224128	0.012713404
	Naphthalene	5794	4514	3342	3318	0.718132855
	EDB	0	0	0	0	non-SSTL CoC

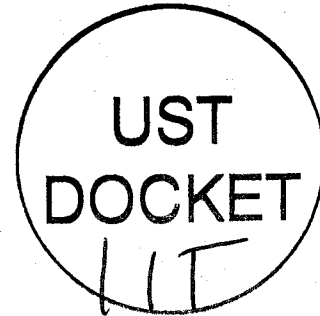


C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

NOV 16 2009

**BRYAN SHANE
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071**



Re: **Notice to Proceed-Groundwater Sampling**
Bid # IFB-33335-3/11/08-EMW; PO# 719459

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct thirteen (13) groundwater-sampling events. The packets contain all necessary information for work to begin. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order # 719459 on the appropriate invoice submitted for payment against the facility.

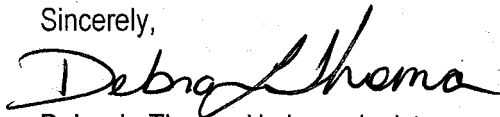
UST Permit #	Facility	County	# wells	UST Project Manager	Sampling Due Date	Parameters-Groundwater	PACE CA#	MECI CA#
04581	Donahue Grocery	Spartanburg	2	M. River	ASAP	BTEXMN-RUSH analysis	37562	37563
11756	EZ Shop 25	Orangeburg	18	R. Miner	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37673	37674
16093	Frye Enterprises	Jasper	15	J. Koon	12/18/09	BTEXMN, DCA, & EDB	37624	37625
14429	Carmichael 66	Dillon	17	S. Fulmer	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37540	37539
12030	Curgins Corner	Aiken	19	J. Koon	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37358	37359
18906	Beaton's Grocery	Jasper	33	J. Koon	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37622	37623
03439	Highway 11 Grocery	Oconee	21	J. Padgett	12/18/09	BTEXMN, DCA, EDB, Oxygenates, & total Pb	37520	37519
05981	Circle Stop & Shop	Saluda	24	R. Miner	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37500	37501
15930	Lloyd's Place	Lancaster	21	S. Fulmer	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37517	37516
10114	Jim's Variety Shop	Chesterfield	15	S. Fulmer	12/18/09	BTEXMN, DCA, EDB, & Oxygenates	37532	37531
04622	Lil Cricket 855	Greenville	12	S. Briney	12/18/09	BTEXMN, DCA, EDB, Oxygenates, & total pb	37542	37543
09160	Rock Hill Maint.	York	15	D. Thoma	12/18/09	BTEXMN & DCA	37439	37440

02233	Danny Melton	Chesterfield	22	S. Fulmer	12/18/09	BTEXMN, DCA, & EDB	37477	37476
18212	Frm Engle's Store	Charleston	42	J. Padgett	12/18/09	42-BTEXMN, DCA 1-EDB 3-Oxygenates	37481	37482
11180	Fleet Operations	Horry	23	J. Martin	12/18/09	BTEXMN, DCA, & EDB	37378	37377
06155	Food Fair 3	Richland	19	S. Fulmer	12/18/09	Sampling already completed	36705	36704

MECI will perform services at the sites on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. Contact information has been provided in the information packet. The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs. **Please note, the final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.**

Please contact me with the sampling schedule before commencing work at these facilities. If you have any questions or need further assistance, please contact me at (803) 896-6397 or thomadl@dhec.sc.gov.

Sincerely,



Debra L. Thoma, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

enc: Information Packets
Approved Cost Agreements

cc: Renee Spencer, PACE Analytical, 9800 Kinsey Ave. Ste. 100, Huntersville, NC, 28078 (w/ Approved CAs)
Technical Files (w/o. enc.)

Approved Cost Agreement 37520

Facility: 03439 HWY 11 GROCERY

PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	21.0000	23.00	483.00
		E LEAD	18.0000	10.00	180.00
		F EDB	21.0000	25.00	525.00
		P 8 OXYGENATES	21.0000	30.00	630.00
		Total Amount			1,818.00

Approved Cost Agreement 37519

Facility: 03439 HWY 11 GROCERY

PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		B PERSONNEL	2.0000	150.00	300.00
10 SAMPLE COLLECTION		A GROUND WATER	3.0000	12.00	36.00
		C WATER SUPPLY	3.0000	10.00	30.00
		D GROUNDWATER NO-PURGE	15.0000	10.00	150.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	15.0000	0.30	4.50
			Total Amount		520.50



Midlands
Environmental
Consultants, Inc.

May 17, 2010

Ms. Debra Thoma, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID Number 03439, CA # 37519
MECI Project Number 09-2563
Certified Site Rehabilitation Contractor UCC-0009



Dear Ms. Thoma,

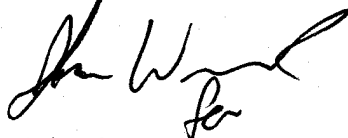
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Sampling for the referenced site.

On April 27, 2010 fourteen monitoring wells (MW-2 through MW-4, MW-6, MW-9 through MW-15, DMW-1, DMW-2, and DMW-4) and three surface waters (CK-1 through CK-3) were sampled. Three monitoring wells (DMW-1, DMW-2 and DMW-4) were purged prior to sampling. Two monitoring wells (MW-1 and MW-8) were gauged and contained free phase petroleum product. Two monitoring wells (MW-5 and MW-7) were not sampled. Groundwater samples obtained were transported to Pace Analytical Services, Inc. of Huntersville, NC for analysis.

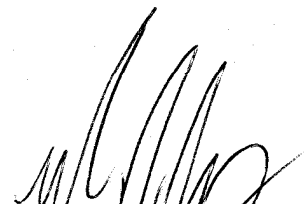
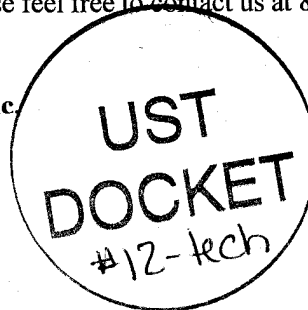
Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 54.0 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,
Midlands Environmental Consultants, Inc.

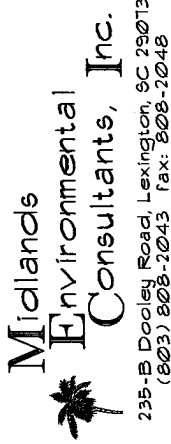


Brian Owen
Field Technician



Brendon P. Kelly
Project Scientist

Site Activity Summary



235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 Fax: 808-2048

UST Permit #: 03439
 Facility Name: Highway 11 Grocery
 County: Oconee
 Field Personnel: Alex Wolfson

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	# Gals. Purged	Comments
MW-1	N	***	***	15-30	23.90	24.45	0.55	***	0.55 ft. Free Phase Product
MW-2	Y	4/27/10	14:20	20-35	***	25.39	***	***	No Odor
MW-3	Y	4/27/10	14:00	20-30	***	24.09	***	***	No Odor
MW-4	Y	4/27/10	13:40	20-35	***	22.28	***	***	No Odor
MW-5	N	***	***	20-35	***	***	***	***	Truck parked on top of well.
MW-6	Y	4/27/10	13:20	20-35	***	21.02	***	***	Odor
MW-7	N	***	***	25-40	***	***	***	***	Truck parked on top of well.
MW-8	N	***	***	15-30	20.50	20.95	0.45	***	0.45 ft. Free Phase Product
MW-9	Y	4/27/10	17:00	2-10	***	***	***	***	No Odor
MW-10	Y	4/27/10	13:00	13-28	***	18.91	***	***	No Odor
MW-11	Y	4/27/10	12:30	8-23	***	16.04	***	***	No Odor
MW-12	Y	4/27/10	16:50	2-12	***	2.71	***	***	No Odor
MW-13	Y	4/27/10	12:00	2-12	***	6.31	***	***	No Odor; Stick-up 3.0'
MW-14	Y	4/27/10	16:40	2-10	***	2.21	***	***	Odor
MW-15	Y	4/27/10	12:15	4-9	***	10.30	***	***	No Odor; Stick-up 3.2'
								0.0	TOTAL GALLONS PURGED

South Carolina Department of Health and Environmental Control
 Bureau of Land and Waste Management Underground Storage Tank Program
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/27/2010
 Field Personnel: Alex Wolfson
 General Weather Conditions: Sunny
 Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter YSI Model 550A Conductivity Meter
 serial no. 02A0831 serial no. 02A0831
 pH=4.0 standard X
 pH=7.0 standard X
 pH=10.0 standard

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
 Site ID#: 03439 Monitoring Well # DMW-1
 Water Supply Well Public Private
 Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Free Product (DFP) _____ feet
 Depth to Ground Water (DGW) 24.12 feet
 Total Well Depth (TWD) 45 feet
 Length of the water column (LWC=TWD-DGW) 20.88 feet
 1 casing volume (CV=LWC X C)= 0.163 X 3.40 gallons
 3 casing volume (3 X CV)= 3 X 10.21 gallons

Total Volume of Water Purged Before Sampling 11 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Cumulative Volume Purged (gallons)							
Time (military)	14:30	14:33	14:36	14:40			
pH (s.u.)	6.35	6.35	6.35	6.36			
Specific Conductivity (µmhos/cm)	52.8	50.5	48.6	45.5			
Water Temperature (°C)	19.2	19.0	18.9	18.7			
Dissolved Oxygen	4.05	3.75	3.21	2.93			
PID readings, if required							

Remarks: _____ Sample Time: 14:30

South Carolina Department of Health and Environmental Control
 Bureau of Land and Waste Management Underground Storage Tank Program
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/27/2010
 Field Personnel: Alex Wolfson
 General Weather Conditions: Sunny
 Ambient Air Temperature: 28.0 °C
 Quality Assurance
 pH Meter YSI Model 550A Conductivity Meter
 serial no. 02A0831 serial no. 02A0831
 pH=4.0 X standard X
 pH=7.0 X standard _____
 pH=10.0 X standard _____
 Chain of Custody
 Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery Monitoring Well # DMW-2
 Site ID#: 03439 Water Supply Well Public Private _____
 Monitoring Well Diameter (D): 2 inches
 Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652
 * Free Product Thickness: _____ feet
 Depth to Free Product (DFP) _____ feet
 Depth to Ground Water (DGW) 24.20 feet
 Total Well Depth (TWD) 75 feet
 Length of the water column (LWC=TWD-DGW) 50.8 feet
 1 casing volume (CV=LWC X C)= 0.163 X 3 8.28 gallons
 3 casing volume (3 X CV)= 24.84 gallons
 Total Volume of Water Purged Before Sampling 25 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Cumulative Volume Purged (gallons)							
Time (military)	16:25	16:30					
pH (s.u.)	6.97	6.81					
Specific Conductivity (µmhos/cm)	62.1	59.8					
Water Temperature (°C)	18.4	18.3					
Dissolved Oxygen	4.08	3.99					
PID readings, if required							

Remarks: _____ Sample Time: 16:25 Parameters within 10%

South Carolina Department of Health and Environmental Control
 Bureau of Land and Waste Management Underground Storage Tank Program
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/27/2010
 Field Personnel: Alex Wolfson
 General Weather Conditions: Sunny
 Ambient Air Temperature: 28.0 °C
 Quality Assurance
 pH Meter YSI Model 550A Conductivity Meter
 serial no. 02A0831 serial no. 02A0831
 pH=4.0 standard X
 pH=7.0 standard
 pH=10.0 standard
 Chain of Custody
 Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

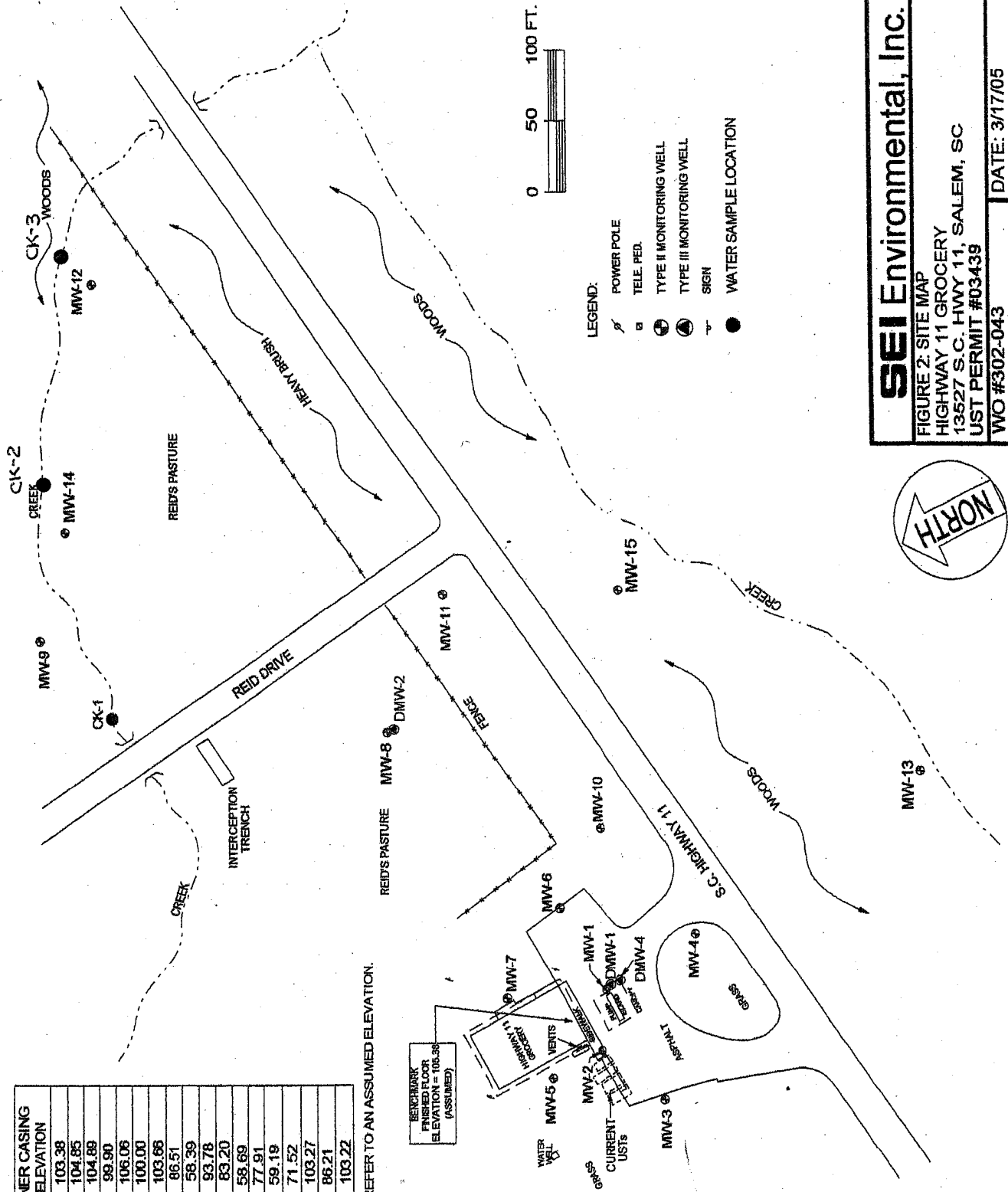
Facility Name: Highway 11 Grocery Monitoring Well # DMW-4
 Site ID#: 03439
 Water Supply Well Public Private _____
 Monitoring Well Diameter (D): 2 inches
 Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652
 * Free Product Thickness: _____ feet
 Depth to Free Product (DFP) _____ feet
 Depth to Ground Water (DGW) 24.21 feet
 Total Well Depth (TWD) 60 feet
 Length of the water column (LWC=TWD-DGW) 35.79 feet
 1 casing volume (CV=LWC X C)= 0.163 X 5.83 gallons
 3 casing volume (3 X CV)= 3 X 17.50 gallons
 Total Volume of Water Purged Before Sampling 18 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:50	14:52					
pH (s.u.)	6.26	6.13					
Specific Conductivity (µmhos/cm)	29.2	27.7					
Water Temperature (°C)	18.4	18.5					
Dissolved Oxygen	6.02	6.32					
PID readings, if required							

Remarks: _____ Sample Time: 14:50 Parameters within 10%

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.95
MW-3	104.88
MW-4	99.90
MW-5	106.08
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #D3439
 WO #302-043
 DATE: 3/17/05
 DWG #HI01692G
 DRAWN BY: JCJ



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company: SCHEC UST
Address: 6000 Bell Street
City: Columbia SC 29201
Phone: 803-624-6244
Requested Due Date/TAT: 8/27/10

Section B Required Project Information:

Report To: D. Thoma
Copy To:
Purchase Order No.: 719451
Project Name: Highway 11 Grassy

Section C Invoice Information:

Attention: Fianca (D. Thoma)
Company Name: SCHEC-UST
Address:
Regulatory Agency: NPDES, UST, RCRA
Site Location: SC

Page: 1 of 2
1357500

Table with columns: ITEM #, Matrix Codes, Section D Required Client Information, SAMPLE ID, Matrix Code, Sample Type, Collected (Start/End), Relinquished By, Time, Date, Preservatives, Analysis Test, Requested Analysis Filtered, # of Containers, OF Containers, Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2O2, Methanol, Other, Y/N, Page Project No. / Lab I.D., Temp in C, Received on, Custody, Sealed Cooler, Samples Intact.

2

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Alex Wolfson
SIGNATURE of SAMPLER: Alex Wolfson
DATE Signed (MM/DD/YY): 8-27-10

CHAIN-OF-CUSTODY / Analytical Request Document

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



Page: 2 of 2
 1357902
 REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA
 Site Location: SC
 STATE: SC

Section A
 Required Client Information:
 Company: SCMEC-UST
 Address: 2600 Bull Street
 Columbia SC 29201
 Email To: [redacted]
 Phone: (803) 974-2000
 Requested Due Date/TAT: 5/15/07

Section B
 Required Project Information:
 Report To: P. Thomas
 Copy To:
 Purchase Order No.: 719959
 Project Name: Highway 11 61001
 Project Number: 0-459/CAP 33500

Section C
 Invoice Information:
 Attention: P. Thomas (P. Thomas)
 Company Name: SCMEC-UST
 Address:
 Pace Quote Reference:
 Pace Project Manager: R. Speiser
 Pace Profile #:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test 1 Y/N	Requested Analysis Filtered (Y/N)			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB				DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME		DATE	TIME	DATE			TIME
1	1161-13	WT			11-27-03	12:00	6														1161-0001		
2	1161-14					16:40	7														1161-0001		
3	1161-15					12:15	7														1161-0001		
4	1161-1					14:11	7														1161-0001		
5	1161-2					16:21	7														1161-0001		
6	1161-4					14:51	7														1161-0001		
7	CK-1					11:00	6														1161-0001		
8	CK-2					16:10	6														1161-0001		
9	CK-3					16:20	6														1161-0001		
10																							
11																							
12																							

RELIQUISHED BY / AFFILIATION: Alex Wolfson
 DATE: 4-27-10
 ACCEPTED BY / AFFILIATION: Alex Wolfson
 DATE: 4-27-10
 ADDITIONAL COMMENTS: Request 5" tubes

2
 SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Alex Wolfson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 4-27-10



Midlands
Environmental
Consultants, Inc.

May 17, 2010

Re: Treatment of Purge Water
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID Number 03439
MECI Project Number 09-2563

To Whom It May Concern;

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

Applicability:

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

Conditions:

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

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

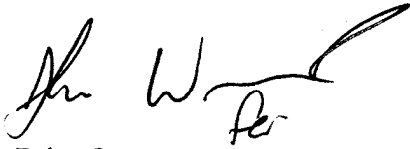
May 17, 2010

A total of 54 gallons were treated on April 27, 2010 at the referenced site.

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

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

Sincerely,
Midlands Environmental Consultants, Inc.

A handwritten signature in black ink, appearing to read "Brian Owen". The signature is stylized and cursive, with a large, sweeping flourish at the end.

Brian Owen
Field Technician

May 05, 2010

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201



RE: Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Erin L. Waters For

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 29

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CERTIFICATIONS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Charlotte Certification IDs

Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
9800 Kinsey Ave. - Ste 100 Huntersville, NC 28078
Connecticut Certification #: PH-0104

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 9903002
South Carolina Certification #: 9903001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
Florida/NELAP Certification #: E87648

REPORT OF LABORATORY ANALYSIS

Page 2 of 29

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SAMPLE SUMMARY

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9268269001	MW-2	Water	04/27/10 14:20	04/28/10 15:15
9268269002	MW-3	Water	04/27/10 14:00	04/28/10 15:15
9268269003	MW-4	Water	04/27/10 13:40	04/28/10 15:15
9268269004	MW-6	Water	04/27/10 13:20	04/28/10 15:15
9268269005	MW-9	Water	04/27/10 17:00	04/28/10 15:15
9268269006	MW-10	Water	04/27/10 13:00	04/28/10 15:15
9268269007	MW-11	Water	04/27/10 12:30	04/28/10 15:15
9268269008	MW-12	Water	04/27/10 16:50	04/28/10 15:15
9268269009	MW-13	Water	04/27/10 12:00	04/28/10 15:15
9268269010	MW-14	Water	04/27/10 16:40	04/28/10 15:15
9268269011	MW-15	Water	04/27/10 12:15	04/28/10 15:15
9268269012	DMW-1	Water	04/27/10 14:30	04/28/10 15:15
9268269013	DMW-2	Water	04/27/10 16:25	04/28/10 15:15
9268269014	DMW-4	Water	04/27/10 14:50	04/28/10 15:15
9268269015	CK-1	Water	04/27/10 16:00	04/28/10 15:15
9268269016	CK-2	Water	04/27/10 16:10	04/28/10 15:15
9268269017	CK-3	Water	04/27/10 16:20	04/28/10 15:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9268269001	MW-2	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC	21
9268269002	MW-3	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC	21
9268269003	MW-4	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC, MCK	21
9268269004	MW-6	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC, MCK	21
9268269005	MW-9	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9268269006	MW-10	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9268269007	MW-11	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC	21
9268269008	MW-12	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC	21
9268269009	MW-13	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC	21
9268269010	MW-14	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC, MCK	21
9268269011	MW-15	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9268269012	DMW-1	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	BLC	21
9268269013	DMW-2	EPA 8011	CAH	2

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SAMPLE ANALYTE COUNT

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9268269014	DMW-4	EPA 6010	JMW	1
		EPA 8260	BLC	21
		EPA 8011	CAH	2
		EPA 6010	JMW	1
9268269015	CK-1	EPA 8260	BLC	21
		EPA 8011	CAH	2
		EPA 8260	BLC	21
9268269016	CK-2	EPA 8011	CAH	2
		EPA 8260	BLC	21
		EPA 8011	CAH	2
9268269017	CK-3	EPA 8260	BLC	21
		EPA 8011	CAH	2
		EPA 8260	BLC	21

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ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439

Pace Project No.: 9268269

Sample: MW-2 Lab ID: 9268269001 Collected: 04/27/10 14:20 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:09	04/29/10 21:21	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	04/29/10 15:09	04/29/10 21:21	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 19:56	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 19:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 19:22	994-05-8	
Benzene	3.7J	ug/L	5.0	1.2	1		04/29/10 19:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 19:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 19:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 19:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 19:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 19:22	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 19:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 19:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 19:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 19:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 19:22	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/29/10 19:22	108-88-3	
Xylene (Total)	3.2J	ug/L	10.0	2.7	1		04/29/10 19:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/29/10 19:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 19:22	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/29/10 19:22	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/29/10 19:22	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/29/10 19:22	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/29/10 19:22	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-3 Lab ID: 9268269002 Collected: 04/27/10 14:00 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:09	04/29/10 21:40	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	04/29/10 15:09	04/29/10 21:40	301-79-56	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	9.1	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:03	7439-92-1	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 19:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 19:41	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 19:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 19:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 19:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 19:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 19:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 19:41	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 19:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 19:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 19:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 19:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 19:41	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/29/10 19:41	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/29/10 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/29/10 19:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 19:41	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/29/10 19:41	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/29/10 19:41	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/29/10 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/29/10 19:41	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-4 Lab ID: 9268269003 Collected: 04/27/10 13:40 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:09	04/29/10 22:18	106-93-4	
1-Chloro-2-bromopropane (S)	75 %		60-140		1	04/29/10 15:09	04/29/10 22:18	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:07	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	355	ug/L	100	62.0	1		04/29/10 19:59	75-85-4	
tert-Amylmethyl ether	14.5	ug/L	10.0	4.5	1		04/29/10 19:59	994-05-8	
Benzene	532	ug/L	50.0	12.0	10		05/01/10 15:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 19:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 19:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 19:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 19:59	107-06-2	
Diisopropyl ether	21.9	ug/L	5.0	2.7	1		04/29/10 19:59	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 19:59	64-17-5	
Ethylbenzene	179	ug/L	5.0	1.1	1		04/29/10 19:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 19:59	637-92-3	
Methyl-tert-butyl ether	381	ug/L	50.0	20.0	10		05/01/10 15:47	1634-04-4	
Naphthalene	31.3	ug/L	5.0	2.9	1		04/29/10 19:59	91-20-3	
Toluene	906	ug/L	50.0	18.0	10		05/01/10 15:47	108-88-3	
Xylene (Total)	895	ug/L	100	27.0	10		05/01/10 15:47	1330-20-7	
m&p-Xylene	597	ug/L	100	27.0	10		05/01/10 15:47	179601-23-1	
o-Xylene	298	ug/L	50.0	17.0	10		05/01/10 15:47	95-47-6	
Dibromofluoromethane (S)	104 %		70-130		1		04/29/10 19:59	1868-53-7	
Toluene-d8 (S)	97 %		70-130		1		04/29/10 19:59	2037-26-5	
4-Bromofluorobenzene (S)	100 %		70-130		1		04/29/10 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130		1		04/29/10 19:59	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-6 Lab ID: 9268269004 Collected: 04/27/10 13:20 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND ug/L		0.020	0.020	1	04/29/10 15:09	04/29/10 22:37	106-93-4	
1-Chloro-2-bromopropane (S)	102 %		60-140		1	04/29/10 15:09	04/29/10 22:37	301-79-56	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	8.1 ug/L		5.0	4.0	1	04/30/10 14:15	05/04/10 20:10	7439-92-1	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	3110 ug/L		100	62.0	1		04/29/10 20:17	75-85-4	
tert-Amylmethyl ether	914J ug/L		1000	450	100		05/01/10 16:06	994-05-8	
Benzene	5570 ug/L		500	120	100		05/01/10 16:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L		100	48.0	1		04/29/10 20:17	624-95-3	
tert-Butyl Alcohol	ND ug/L		100	27.0	1		04/29/10 20:17	75-65-0	
tert-Butyl Formate	ND ug/L		50.0	9.0	1		04/29/10 20:17	762-75-4	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		04/29/10 20:17	107-06-2	
Diisopropyl ether	536 ug/L		500	270	100		05/01/10 16:06	108-20-3	
Ethanol	ND ug/L		200	170	1		04/29/10 20:17	64-17-5	
Ethylbenzene	2260 ug/L		500	110	100		05/01/10 16:06	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		10.0	4.6	1		04/29/10 20:17	637-92-3	
Methyl-tert-butyl ether	35300 ug/L		2500	1000	500		05/04/10 16:57	1634-04-4	
Naphthalene	463J ug/L		500	290	100		05/01/10 16:06	91-20-3	
Toluene	19900 ug/L		500	180	100		05/01/10 16:06	108-88-3	
Xylene (Total)	12300 ug/L		1000	270	100		05/01/10 16:06	1330-20-7	
m&p-Xylene	8470 ug/L		1000	270	100		05/01/10 16:06	179601-23-1	
o-Xylene	3820 ug/L		500	170	100		05/01/10 16:06	95-47-6	
Dibromofluoromethane (S)	107 %		70-130		1		04/29/10 20:17	1868-53-7	
Toluene-d8 (S)	77 %		70-130		1		04/29/10 20:17	2037-26-5	
4-Bromofluorobenzene (S)	103 %		70-130		1		04/29/10 20:17	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130		1		04/29/10 20:17	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-9 Lab ID: 9268269005 Collected: 04/27/10 17:00 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND ug/L		0.020	0.020	1	04/29/10 15:09	04/29/10 22:56	106-93-4	
1-Chloro-2-bromopropane (S)	102 %		60-140		1	04/29/10 15:09	04/29/10 22:56	301-79-56	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND ug/L		5.0	4.0	1	04/30/10 14:15	05/04/10 20:14	7439-92-1	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND ug/L		100	62.0	1		05/01/10 16:43	75-85-4	
tert-Amylmethyl ether	ND ug/L		10.0	4.5	1		05/01/10 16:43	994-05-8	
Benzene	ND ug/L		5.0	1.2	1		05/01/10 16:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L		100	48.0	1		05/01/10 16:43	624-95-3	
tert-Butyl Alcohol	ND ug/L		100	27.0	1		05/01/10 16:43	75-65-0	
tert-Butyl Formate	ND ug/L		50.0	9.0	1		05/01/10 16:43	762-75-4	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		05/01/10 16:43	107-06-2	
Diisopropyl ether	ND ug/L		5.0	2.7	1		05/01/10 16:43	108-20-3	
Ethanol	ND ug/L		200	170	1		05/01/10 16:43	64-17-5	
Ethylbenzene	ND ug/L		5.0	1.1	1		05/01/10 16:43	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		10.0	4.6	1		05/01/10 16:43	637-92-3	
Methyl-tert-butyl ether	ND ug/L		5.0	2.0	1		05/01/10 16:43	1634-04-4	
Naphthalene	ND ug/L		5.0	2.9	1		05/01/10 16:43	91-20-3	
Toluene	ND ug/L		5.0	1.8	1		05/01/10 16:43	108-88-3	
Xylene (Total)	ND ug/L		10.0	2.7	1		05/01/10 16:43	1330-20-7	
m&p-Xylene	ND ug/L		10.0	2.7	1		05/01/10 16:43	179601-23-1	
o-Xylene	ND ug/L		5.0	1.7	1		05/01/10 16:43	95-47-6	
Dibromofluoromethane (S)	100 %		70-130		1		05/01/10 16:43	1868-53-7	
Toluene-d8 (S)	93 %		70-130		1		05/01/10 16:43	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130		1		05/01/10 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		70-130		1		05/01/10 16:43	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439

Pace Project No.: 9268269

Sample: MW-10 Lab ID: 9268269006 Collected: 04/27/10 13:00 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:09	04/29/10 23:14	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/29/10 15:09	04/29/10 23:14	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	4.4J	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:28	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		05/01/10 17:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		05/01/10 17:01	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		05/01/10 17:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		05/01/10 17:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		05/01/10 17:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		05/01/10 17:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		05/01/10 17:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		05/01/10 17:01	108-20-3	
Ethanol	ND	ug/L	200	170	1		05/01/10 17:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/01/10 17:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		05/01/10 17:01	637-92-3	
Methyl-tert-butyl ether	4.0J	ug/L	5.0	2.0	1		05/01/10 17:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		05/01/10 17:01	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/01/10 17:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/01/10 17:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		05/01/10 17:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		05/01/10 17:01	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		05/01/10 17:01	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/01/10 17:01	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/01/10 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/01/10 17:01	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-11 Lab ID: 9268269007 Collected: 04/27/10 12:30 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:10	04/29/10 23:33	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	04/29/10 15:10	04/29/10 23:33	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:32	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 21:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 21:13	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 21:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 21:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 21:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 21:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 21:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 21:13	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 21:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 21:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 21:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 21:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 21:13	91-20-3	
Toluene	3.2J	ug/L	5.0	1.8	1		04/29/10 21:13	108-88-3	
Xylene (Total)	4.2J	ug/L	10.0	2.7	1		04/29/10 21:13	1330-20-7	
m&p-Xylene	3.1J	ug/L	10.0	2.7	1		04/29/10 21:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 21:13	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		04/29/10 21:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/29/10 21:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		04/29/10 21:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/29/10 21:13	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-12 Lab ID: 9268269008 Collected: 04/27/10 16:50 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:10	04/29/10 23:52	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/29/10 15:10	04/29/10 23:52	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	4.3J	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:35	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 21:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 21:31	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 21:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 21:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 21:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 21:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 21:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 21:31	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 21:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 21:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 21:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 21:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 21:31	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/29/10 21:31	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/29/10 21:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/29/10 21:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 21:31	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		04/29/10 21:31	1868-53-7	
Toluene-d8 (S)	85	%	70-130		1		04/29/10 21:31	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/29/10 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/29/10 21:31	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-13 Lab ID: 9268269009 Collected: 04/27/10 12:00 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.052	ug/L	0.020	0.020	1	04/29/10 15:10	04/30/10 00:11	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/29/10 15:10	04/30/10 00:11	301-79-56	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	6.4	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:38	7439-92-1	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 21:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 21:50	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 21:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 21:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 21:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 21:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 21:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 21:50	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 21:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 21:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 21:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 21:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 21:50	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/29/10 21:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/29/10 21:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/29/10 21:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 21:50	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/29/10 21:50	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/29/10 21:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/29/10 21:50	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/29/10 21:50	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-14 Lab ID: 9268269010 Collected: 04/27/10 16:40 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:10	04/30/10 00:30	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	04/29/10 15:10	04/30/10 00:30	301-79-56	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:42	7439-92-1	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	717	ug/L	100	62.0	1		04/29/10 22:08	75-85-4	
tert-Amylmethyl ether	134	ug/L	10.0	4.5	1		04/29/10 22:08	994-05-8	
Benzene	1770	ug/L	250	60.0	50		05/01/10 16:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 22:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 22:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 22:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 22:08	107-06-2	
Diisopropyl ether	96.0	ug/L	5.0	2.7	1		04/29/10 22:08	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 22:08	64-17-5	
Ethylbenzene	1560	ug/L	250	55.0	50		05/01/10 16:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 22:08	637-92-3	
Methyl-tert-butyl ether	2020	ug/L	250	100	50		05/01/10 16:24	1634-04-4	
Naphthalene	432	ug/L	250	145	50		05/01/10 16:24	91-20-3	
Toluene	6420	ug/L	250	90.0	50		05/01/10 16:24	108-88-3	
Xylene (Total)	8850	ug/L	500	135	50		05/01/10 16:24	1330-20-7	
m&p-Xylene	6050	ug/L	500	135	50		05/01/10 16:24	179601-23-1	
o-Xylene	2800	ug/L	250	85.0	50		05/01/10 16:24	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		04/29/10 22:08	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		04/29/10 22:08	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		04/29/10 22:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/29/10 22:08	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: MW-15		Lab ID: 9268269011	Collected: 04/27/10 12:15	Received: 04/28/10 15:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND ug/L		0.020	0.020	1	04/29/10 15:10	04/30/10 00:48	106-93-4	
1-Chloro-2-bromopropane (S)	103 %		60-140		1	04/29/10 15:10	04/30/10 00:48	301-79-56	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	ND ug/L		5.0	4.0	1	04/30/10 14:15	05/04/10 20:46	7439-92-1	
8260 MSV Oxygenates		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND ug/L		100	62.0	1		05/01/10 17:20	75-85-4	
tert-Amylmethyl ether	ND ug/L		10.0	4.5	1		05/01/10 17:20	994-05-8	
Benzene	ND ug/L		5.0	1.2	1		05/01/10 17:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L		100	48.0	1		05/01/10 17:20	624-95-3	
tert-Butyl Alcohol	ND ug/L		100	27.0	1		05/01/10 17:20	75-65-0	
tert-Butyl Formate	ND ug/L		50.0	9.0	1		05/01/10 17:20	762-75-4	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		05/01/10 17:20	107-06-2	
Diisopropyl ether	ND ug/L		5.0	2.7	1		05/01/10 17:20	108-20-3	
Ethanol	ND ug/L		200	170	1		05/01/10 17:20	64-17-5	
Ethylbenzene	ND ug/L		5.0	1.1	1		05/01/10 17:20	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		10.0	4.6	1		05/01/10 17:20	637-92-3	
Methyl-tert-butyl ether	ND ug/L		5.0	2.0	1		05/01/10 17:20	1634-04-4	
Naphthalene	ND ug/L		5.0	2.9	1		05/01/10 17:20	91-20-3	
Toluene	ND ug/L		5.0	1.8	1		05/01/10 17:20	108-88-3	
Xylene (Total)	ND ug/L		10.0	2.7	1		05/01/10 17:20	1330-20-7	
m&p-Xylene	ND ug/L		10.0	2.7	1		05/01/10 17:20	179601-23-1	
o-Xylene	ND ug/L		5.0	1.7	1		05/01/10 17:20	95-47-6	
Dibromofluoromethane (S)	102 %		70-130		1		05/01/10 17:20	1868-53-7	
Toluene-d8 (S)	96 %		70-130		1		05/01/10 17:20	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-130		1		05/01/10 17:20	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130		1		05/01/10 17:20	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: DMW-1 Lab ID: 9268269012 Collected: 04/27/10 14:30 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 15:10	04/30/10 01:07	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/29/10 15:10	04/30/10 01:07	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:49	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 22:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 22:45	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 22:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 22:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 22:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 22:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 22:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 22:45	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 22:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 22:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 22:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 22:45	1634-04-4	
Naphthalene	4.0J	ug/L	5.0	2.9	1		04/29/10 22:45	91-20-3	
Toluene	2.6J	ug/L	5.0	1.8	1		04/29/10 22:45	108-88-3	
Xylene (Total)	5.1J	ug/L	10.0	2.7	1		04/29/10 22:45	1330-20-7	
m&p-Xylene	3.8J	ug/L	10.0	2.7	1		04/29/10 22:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 22:45	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		04/29/10 22:45	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		04/29/10 22:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/29/10 22:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/29/10 22:45	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: DMW-2 Lab ID: 9268269013 Collected: 04/27/10 16:25 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 14:56	04/30/10 02:41	106-93-4	
1-Chloro-2-bromopropane (S)	119	%	60-140		1	04/29/10 14:56	04/30/10 02:41	301-79-56	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:53	7439-92-1	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 23:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 23:03	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 23:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 23:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 23:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 23:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 23:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 23:03	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 23:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 23:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 23:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 23:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 23:03	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/29/10 23:03	108-88-3	
Xylene (Total)	3.3J	ug/L	10.0	2.7	1		04/29/10 23:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/29/10 23:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 23:03	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		04/29/10 23:03	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/29/10 23:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/29/10 23:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/29/10 23:03	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: **DMW-4** Lab ID: **9268269014** Collected: 04/27/10 14:50 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 14:56	04/30/10 03:00	106-93-4	
1-Chloro-2-bromopropane (S)	110	%	60-140		1	04/29/10 14:56	04/30/10 03:00	301-79-56	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	ND	ug/L	5.0	4.0	1	04/30/10 14:15	05/04/10 20:56	7439-92-1	
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 23:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 23:21	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/29/10 23:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 23:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 23:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 23:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 23:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 23:21	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 23:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/29/10 23:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 23:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/29/10 23:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 23:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/29/10 23:21	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/29/10 23:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/29/10 23:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		04/29/10 23:21	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		04/29/10 23:21	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/29/10 23:21	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/29/10 23:21	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/29/10 23:21	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: CK-1 Lab ID: 9268269015 Collected: 04/27/10 16:00 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 14:56	04/30/10 03:19	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	04/29/10 14:56	04/30/10 03:19	301-79-56	
8260 MSV Oxygenates		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 23:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 23:40	994-05-8	
Benzene	3.0J	ug/L	5.0	1.2	1		04/29/10 23:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 23:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 23:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 23:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 23:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 23:40	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 23:40	64-17-5	
Ethylbenzene	1.6J	ug/L	5.0	1.1	1		04/29/10 23:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 23:40	637-92-3	
Methyl-tert-butyl ether	5.3	ug/L	5.0	2.0	1		04/29/10 23:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 23:40	91-20-3	
Toluene	6.0	ug/L	5.0	1.8	1		04/29/10 23:40	108-88-3	
Xylene (Total)	8.3J	ug/L	10.0	2.7	1		04/29/10 23:40	1330-20-7	
m&p-Xylene	5.7J	ug/L	10.0	2.7	1		04/29/10 23:40	179601-23-1	
o-Xylene	2.6J	ug/L	5.0	1.7	1		04/29/10 23:40	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		04/29/10 23:40	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/29/10 23:40	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/29/10 23:40	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/29/10 23:40	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: CK-2 Lab ID: 9268269016 Collected: 04/27/10 16:10 Received: 04/28/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 14:56	04/30/10 03:38	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	04/29/10 14:56	04/30/10 03:38	301-79-56	
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/29/10 23:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/29/10 23:58	994-05-8	
Benzene	12.8	ug/L	5.0	1.2	1		04/29/10 23:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/29/10 23:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/29/10 23:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/29/10 23:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/29/10 23:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/29/10 23:58	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/29/10 23:58	64-17-5	
Ethylbenzene	6.0	ug/L	5.0	1.1	1		04/29/10 23:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/29/10 23:58	637-92-3	
Methyl-tert-butyl ether	17.1	ug/L	5.0	2.0	1		04/29/10 23:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/29/10 23:58	91-20-3	
Toluene	36.0	ug/L	5.0	1.8	1		04/29/10 23:58	108-88-3	
Xylene (Total)	32.1	ug/L	10.0	2.7	1		04/29/10 23:58	1330-20-7	
m&p-Xylene	22.0	ug/L	10.0	2.7	1		04/29/10 23:58	179601-23-1	
o-Xylene	10.2	ug/L	5.0	1.7	1		04/29/10 23:58	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		04/29/10 23:58	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/29/10 23:58	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/29/10 23:58	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/29/10 23:58	17060-07-0	

ANALYTICAL RESULTS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Sample: CK-3 Lab ID: 9268269017 Collected: 04/27/10 16:20 Received: 04/28/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/10 14:56	04/30/10 03:57	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	04/29/10 14:56	04/30/10 03:57	301-79-56	
8260 MSV Oxygenates		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/30/10 00:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/30/10 00:17	994-05-8	
Benzene	13.5	ug/L	5.0	1.2	1		04/30/10 00:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/30/10 00:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/30/10 00:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/30/10 00:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/30/10 00:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/30/10 00:17	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/30/10 00:17	64-17-5	
Ethylbenzene	6.7	ug/L	5.0	1.1	1		04/30/10 00:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/30/10 00:17	637-92-3	
Methyl-tert-butyl ether	19.1	ug/L	5.0	2.0	1		04/30/10 00:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/30/10 00:17	91-20-3	
Toluene	38.1	ug/L	5.0	1.8	1		04/30/10 00:17	108-88-3	
Xylene (Total)	36.7	ug/L	10.0	2.7	1		04/30/10 00:17	1330-20-7	
m&p-Xylene	24.9	ug/L	10.0	2.7	1		04/30/10 00:17	179601-23-1	
o-Xylene	11.8	ug/L	5.0	1.7	1		04/30/10 00:17	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		04/30/10 00:17	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/30/10 00:17	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/30/10 00:17	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/30/10 00:17	17060-07-0	

QUALITY CONTROL DATA

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

QC Batch: OEXT/9855 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012

METHOD BLANK: 435294 Matrix: Water
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/29/10 17:17	
1-Chloro-2-bromopropane (S)	%	103	60-140	04/29/10 17:17	

LABORATORY CONTROL SAMPLE & LCSD: 435295 435296

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.28	0.29	100	102	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				100	102	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 435297 435298

Parameter	Units	9268267001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.083	.28	.28	0.36	0.37	100	102	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						104	105	60-140			

SAMPLE DUPLICATE: 435299

Parameter	Units	9268269002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	89	105	16		

QUALITY CONTROL DATA

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

QC Batch: OEXT/9856 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9268269013, 9268269014, 9268269015, 9268269016, 9268269017

METHOD BLANK: 435306 Matrix: Water
Associated Lab Samples: 9268269013, 9268269014, 9268269015, 9268269016, 9268269017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/30/10 01:45	
1-Chloro-2-bromopropane (S)	%	115	60-140	04/30/10 01:45	

LABORATORY CONTROL SAMPLE & LCSD: 435307 435308

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.30	0.30	104	106	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				103	102	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 435309 435310

Parameter	Units	9268282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.044	.29	.29	0.33	0.34	98	104	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						95	101	60-140			

SAMPLE DUPLICATE: 435311

Parameter	Units	9268218003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	104	102	1		

QUALITY CONTROL DATA

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

QC Batch: MPRP/6242 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012, 9268269013, 9268269014

METHOD BLANK: 435843 Matrix: Water
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012, 9268269013, 9268269014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	05/04/10 19:42	

LABORATORY CONTROL SAMPLE: 435844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	516	103	80-120	

MATRIX SPIKE SAMPLE: 435845

Parameter	Units	9268267003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	489	98	75-125	

SAMPLE DUPLICATE: 435846

Parameter	Units	9268269001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

QUALITY CONTROL DATA

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

QC Batch: MSV/10794 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012, 9268269013, 9268269014, 9268269015, 9268269016, 9268269017

METHOD BLANK: 435390 Matrix: Water
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012, 9268269013, 9268269014, 9268269015, 9268269016, 9268269017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/29/10 16:18	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/29/10 16:18	
Benzene	ug/L	ND	5.0	04/29/10 16:18	
Diisopropyl ether	ug/L	ND	5.0	04/29/10 16:18	
Ethanol	ug/L	ND	200	04/29/10 16:18	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/29/10 16:18	
Ethylbenzene	ug/L	ND	5.0	04/29/10 16:18	
m&p-Xylene	ug/L	ND	10.0	04/29/10 16:18	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/29/10 16:18	
Naphthalene	ug/L	ND	5.0	04/29/10 16:18	
o-Xylene	ug/L	ND	5.0	04/29/10 16:18	
tert-Amyl Alcohol	ug/L	ND	100	04/29/10 16:18	
tert-Amylmethyl ether	ug/L	ND	10.0	04/29/10 16:18	
tert-Butyl Alcohol	ug/L	ND	100	04/29/10 16:18	
tert-Butyl Formate	ug/L	ND	50.0	04/29/10 16:18	
Toluene	ug/L	ND	5.0	04/29/10 16:18	
Xylene (Total)	ug/L	ND	10.0	04/29/10 16:18	
1,2-Dichloroethane-d4 (S)	%	100	70-130	04/29/10 16:18	
4-Bromofluorobenzene (S)	%	99	70-130	04/29/10 16:18	
Dibromofluoromethane (S)	%	102	70-130	04/29/10 16:18	
Toluene-d8 (S)	%	98	70-130	04/29/10 16:18	

METHOD BLANK: 437423 Matrix: Water
Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012, 9268269013, 9268269014, 9268269015, 9268269016, 9268269017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/01/10 14:52	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/01/10 14:52	
Benzene	ug/L	ND	5.0	05/01/10 14:52	
Diisopropyl ether	ug/L	ND	5.0	05/01/10 14:52	
Ethanol	ug/L	ND	200	05/01/10 14:52	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/01/10 14:52	
Ethylbenzene	ug/L	ND	5.0	05/01/10 14:52	
m&p-Xylene	ug/L	ND	10.0	05/01/10 14:52	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/01/10 14:52	
Naphthalene	ug/L	ND	5.0	05/01/10 14:52	

Date: 05/05/2010 03:34 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

METHOD BLANK: 437423

Matrix: Water

Associated Lab Samples: 9268269001, 9268269002, 9268269003, 9268269004, 9268269005, 9268269006, 9268269007, 9268269008, 9268269009, 9268269010, 9268269011, 9268269012, 9268269013, 9268269014, 9268269015, 9268269016, 9268269017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
o-Xylene	ug/L	ND	5.0	05/01/10 14:52	
tert-Amyl Alcohol	ug/L	ND	100	05/01/10 14:52	
tert-Amylmethyl ether	ug/L	ND	10.0	05/01/10 14:52	
tert-Butyl Alcohol	ug/L	ND	100	05/01/10 14:52	
tert-Butyl Formate	ug/L	ND	50.0	05/01/10 14:52	
Toluene	ug/L	ND	5.0	05/01/10 14:52	
Xylene (Total)	ug/L	ND	10.0	05/01/10 14:52	
1,2-Dichloroethane-d4 (S)	%	93	70-130	05/01/10 14:52	
4-Bromofluorobenzene (S)	%	96	70-130	05/01/10 14:52	
Dibromofluoromethane (S)	%	99	70-130	05/01/10 14:52	
Toluene-d8 (S)	%	96	70-130	05/01/10 14:52	

LABORATORY CONTROL SAMPLE: 435391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.1	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	903	90	70-130	
Benzene	ug/L	50	47.0	94	70-130	
Diisopropyl ether	ug/L	50	52.0	104	70-130	
Ethanol	ug/L	2000	1990	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	94.0	94	70-130	
Methyl-tert-butyl ether	ug/L	50	49.4	99	70-130	
Naphthalene	ug/L	50	50.7	101	70-130	
o-Xylene	ug/L	50	47.2	94	70-130	
tert-Amyl Alcohol	ug/L	1000	900	90	70-130	
tert-Amylmethyl ether	ug/L	100	96.5	96	70-130	
tert-Butyl Alcohol	ug/L	500	441	88	70-130	
tert-Butyl Formate	ug/L	400	353	88	70-130	
Toluene	ug/L	50	48.9	98	70-130	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 435392

435393

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		9268269017 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	ND	50	50	44.1	56.5	88	113	70-130	25	30

Date: 05/05/2010 03:34 PM

REPORT OF LABORATORY ANALYSIS

Page 27 of 29

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QUALITY CONTROL DATA

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

Parameter	Units	435392		435393		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		9268269017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	592	812	59	81	70-130	31	30	M0,R1	
Benzene	ug/L	13.5	50	50	56.3	67.3	86	108	70-130	18	30		
Diisopropyl ether	ug/L	ND	50	50	43.6	56.4	86	111	70-130	26	30		
Ethanol	ug/L	ND	2000	2000	1330	1910	67	96	70-130	36	30	M0,R1	
Ethyl-tert-butyl ether	ug/L	ND	100	100	85.7	111	86	111	70-130	26	30		
Ethylbenzene	ug/L	6.7	50	50	48.1	58.3	83	103	70-130	19	30		
m&p-Xylene	ug/L	24.9	100	100	107	127	82	102	70-130	17	30		
Methyl-tert-butyl ether	ug/L	19.1	50	50	58.9	71.3	80	104	70-130	19	30		
Naphthalene	ug/L	ND	50	50	36.4	53.0	70	103	70-130	37	30	R1	
o-Xylene	ug/L	11.8	50	50	53.0	63.5	82	103	70-130	18	30		
tert-Amyl Alcohol	ug/L	ND	1000	1000	626	867	63	87	70-130	32	30	M0,R1	
tert-Amylmethyl ether	ug/L	ND	100	100	81.1	104	81	104	70-130	25	30		
tert-Butyl Alcohol	ug/L	ND	500	500	405	551	81	110	70-130	31	30	R1	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5	
Toluene	ug/L	38.1	50	50	82.8	94.4	89	113	70-130	13	30		
1,2-Dichloroethane-d4 (S)	%						96	101	70-130				
4-Bromofluorobenzene (S)	%						100	101	70-130				
Dibromofluoromethane (S)	%						103	103	70-130				
Toluene-d8 (S)	%						98	98	70-130				

QUALIFIERS

Project: HIGHWAY 11 GROCERY 03439
Pace Project No.: 9268269

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

ANALYTE QUALIFIERS

- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
- R1 RPD value was outside control limits.

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: SWHEE DIT Report To: B. Thomas Attention: Francine (B. Thomas)
 Address: 1200 Bldg 1004 Copy To: Company Name: SWHEE-DIT
 Email To: Purchase Order No.: 911009 Address:
 Phone: Fax: Project Name: Agway in house Pace Quote Reference:
 Requested Due Date/LAT: Project Number: 911009/01-7620 Pace Profile #: 919-15

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location STATE: SC

Page: 1 of 1
1357500

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					Methanol	Other
					DATE	TIME	DATE	TIME										
1	SWHEE																	
2	SWHEE																	
3	SWHEE																	
4	SWHEE																	
5	SWHEE																	
6	SWHEE																	
7	SWHEE																	
8	SWHEE																	
9	SWHEE																	
10	SWHEE																	
11	SWHEE																	
12	SWHEE																	

ADDITIONAL COMMENTS: Relinquished by Affiliation

RELINQUISHED BY / AFFILIATION: B. Thomas DATE: 4-28-10 TIME: 9:50

ACCEPTED BY / AFFILIATION: B. Thomas - Pace DATE: 4-28-10 TIME: 9:50

SAMPLER NAME AND SIGNATURE: B. Thomas

PRINT Name of SAMPLER: B. Thomas

SIGNATURE of SAMPLER: B. Thomas

DATE Signed (MM/DD/YY): 4-28-10

Temp in °C: 15

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

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

F-ALL-Q-020(rev.07.15-May-2007)

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: PHILLIPS 66 Report To: P. Moore Attention: PHILLIPS 66
 Address: 1000 N. 2001 Copy To: PHILLIPS 66 Company Name: PHILLIPS 66
 Email To: PHILLIPS 66 Purchase Order No.: 11009 Address: PHILLIPS 66
 Phone: PHILLIPS 66 Project Name: PHILLIPS 66 Pace Quote Reference: PHILLIPS 66
 Requested Due Date/TAT: PHILLIPS 66 Project Number: PHILLIPS 66 Pace Project Manager: PHILLIPS 66
 Requested Analysis Filtered (Y/N): PHILLIPS 66 Site Location STATE: SC
 REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Page: 2 of 2
1357902

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE DW WT WW P SL OL WP AR TS OT	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START DATE	COMPOSITE END/GRAB DATE			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					Methanol	Other
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS: PHILLIPS 66

RELINQUISHED BY / AFFILIATION: PHILLIPS 66 DATE: 4-28-10 TIME: 15:15

ACCEPTED BY / AFFILIATION: PHILLIPS 66 DATE: 4-28-10 TIME: 9:50

SAMPLER NAME AND SIGNATURE: PHILLIPS 66

PRINT Name of SAMPLER: PHILLIPS 66

SIGNATURE of SAMPLER: PHILLIPS 66

DATE Signed (MM/DD/YY): 4-28-10

Temp in °C: PHILLIPS 66

Received on Ice (Y/N): PHILLIPS 66

Custody Sealed Cooler (Y/N): PHILLIPS 66

Samples Intact (Y/N): PHILLIPS 66

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
F-ALL-Q-020rev.07.15-May-2007

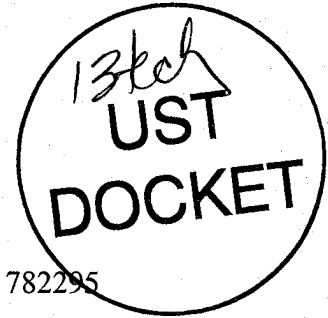


C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JUN 11 2010

BRIAN SHANE
 MIDLANDS ENVIRONMENTAL CONSULTANTS INC
 P O BOX 854
 LEXINGTON SC 29071-0854



Re: Bid # IBF-36815-8/27/09-EMW; PO # 782295
 Notice to Proceed

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct Free Product (FP) recovery using Aggressive Fluid Vapor Recovery (AFVR) or passive skimmers at several facilities. The packets contain the necessary approval for work to begin. You may commence with a site reconnaissance before the AFVR and/or passive skimmers installation. If monitoring wells do not contain measurable free phase product, contact the UST project manager for further instructions. The facilities have been assigned Cost Agreement (CA) numbers as listed below. Please reference the CA numbers and Purchase Order # 782295 on the appropriate invoices submitted for payment against the facilities. As specified in the referenced bid, the completed invoice forms and associated reports (include contract certification number) are expected on or before the designated due date (see below).

UST Permit #	Facility	County	Releases	Work Scope	Due Date*	CA #	Approved Amt.
10658	Joker Joe's Truck Stop	Jasper	1	4 AFVR	60 days	39138	4,475.00
04768	Bole's Enterprises	Greenwood	1	2 AFVR	60 days	39139	2,925.00
18131	Former Fast Fare	Greenwood	1	3AFVR	60 days	39142	3,375.00
14935	Hartzog Farm	Barnwell	1	5 AFVR	60 days	39147	5,475.00
03439	Highway 11 Grocery	Oconee	1	4 AFVR	60 days	39196	4,675.00

*From receipt of letter

Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the SUPERB Account. The site's UST owners have no obligation for payment for this scope of work. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained.

If for any reason there are changes in these cost agreements, any associated changes to this cost agreement must be pre-approved by this Department in order for Midlands Environmental Consultants to seek future cost compensation. Please contact the site's project manager for technical and/or financial approval. Any item(s) not clearly or completely addressed in the report (disposal manifest for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account.

The Department grants pre-approval for transportation of free phase product and petroleum contaminated groundwater from the referenced site to a permitted treatment facility. The free product and contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the report.

If you have any questions concerning this correspondence or need further assistance, please contact me by phone at (803) 896-6664, by fax at (803) 896-6245 or by email at milenkmp@dhec.sc.gov.

Sincerely,



Maia Milenkova, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreements (ACA)
Information Packets
cc: Technical File (w/copy of ACA)

SCDHEC/UST/06/10/10/MPM

Approved Cost Agreement 39196

Facility: 03439 HWY 11 GROCERY

PADGETJP

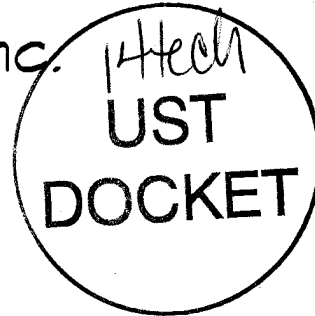
PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A EQUIPMENT	4.0000	350.00	1,400.00
17 DISPOSAL		A2 WASTEWATER - PUMPING TEST	4,000.0000	0.10	400.00
23 EFR		A 8 HOUR EVENT	4.0000	600.00	2,400.00
		C OFF GAS TREATMENT	4.0000	100.00	400.00
		D SITE RECONNAISSANCE	1.0000	75.00	75.00
			Total Amount		4,675.00

 **Midlands
Environmental
Consultants, Inc.**

September 17, 2010

Mr. Joel P. Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #39196
MECI Project Number 10-2910A
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

On August 24, 2010 MECI personnel conducted a site visit at Highway 11 Grocery to locate/gauge monitoring wells and evaluate current site conditions. MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on September 1, 2010. The event was conducted on monitoring well MW-1 to remove free phase petroleum product. Free phase petroleum product was detected in monitoring well MW-1 at a thickness of 0.36 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 18.50 pounds or approximately 3.20 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 2.31 pounds per hour. Concentrations of off gas produced during the event were recorded from 422 parts per million by volume (PPM) to 2,350 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 11.0 to 23.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on attached Figure 1.

A total of 100 gallons of liquid was removed from MW-1 during this event. Free phase petroleum product was observed in the sight tube of the knock-out tank at a thickness of 0.083 feet immediately following the event. The fluids produced were transported to TK Tank Services, Inc of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT


The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Brian Owen
Field Technician



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1A
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910A
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements						
					Concentration (PPM)	Offgas Velocity F/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs		
MW-1	09/01/10	10:30	0.50	11.0	2,350	2,920	262.80	7.41	3.71		
	09/01/10	11:00	0.50	11.0	1,539	3,070	276.30	5.10	2.55		
	09/01/10	11:30	0.50	12.0	1,069	2,640	237.60	3.05	1.52		
	09/01/10	12:00	0.50	12.0	654	2,710	243.90	1.91	0.96		
	09/01/10	12:30	0.50	14.0	486	2,430	218.70	1.28	0.64		
	09/01/10	13:00	0.50	14.0	445	2,410	216.90	1.16	0.58		
	09/01/10	13:30	0.50	16.0	448	1,960	176.40	0.95	0.47		
	09/01/10	14:00	0.50	16.0	422	2,070	186.30	0.94	0.47		
	09/01/10	14:30	0.50	18.0	997	1,650	148.50	1.78	0.89		
	09/01/10	15:00	0.50	18.0	955	1,570	141.30	1.62	0.81		
	09/01/10	15:30	0.50	19.0	1,278	1,430	128.70	1.97	0.99		
	09/01/10	16:00	0.50	20.0	1,446	1,250	112.50	1.95	0.98		
	09/01/10	16:30	0.50	21.0	1,479	980	88.20	1.57	0.78		
	09/01/10	17:00	0.50	23.0	1,889	840	75.60	1.71	0.86		
	09/01/10	17:30	0.50	23.0	1,911	780	70.20	1.61	0.80		
	09/01/10	18:00	0.50	23.0	1,651	840	75.60	1.50	0.75		
09/01/10	18:30	0.50	23.0	1,692	820	73.80	1.50	0.75			
TOTAL									18.50		
Well No.	Diameter (in)	Well Data:	Screened Interval (ft)	Depth to Product (ft)	Pre AFVR Event	Depth to Water (ft)	Product Thickness (ft)	Post AFVR Event	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)
MW-1	2"		15-30	25.89	26.25	26.92	0.36	26.92	26.92	***	0.98
Vacuum Truck Information	Well ID	Recovery / Disposal Information									
Subcontractor: MECI	MW-1	Hydro carbons Removed (vapor): 18.50 Pounds									
Truck Operator: R. Ariail		Hydro carbons Removed (liquid): 0 Gallons									
Stack I.D. (feet) 0.33 feet		Total Hydrocarbons Removed: 3.20 Equivalent Gallons									
		Molecular Weight Utilized: 75 g / mole									
		Disposal Facility: TK Tank Services, Inc.									
		Total Liquids Removed: 100 Gallons									
Corrected depth to water before AFVR event in MW-1 = 25.94											

**TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910A
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-6
Nearest Extraction Well:		MW-1	MW-1	MW-1
Approximate Distance:		40 ft	73 ft	65 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
10:30	0.0	0	0	0
11:00	0.5	0	0	0
11:30	1.0	0	0	0
12:00	1.5	0	0	0
12:30	2.0	0	0	0
13:00	2.5	0	0	0
13:30	3.0	0	0	0
14:00	3.5	0	0	0
14:30	4.0	0	0	0
15:00	4.5	0	0	0
15:30	5.0	0	0	0
16:00	5.5	0	0	0
16:30	6.0	0	0	0
17:00	6.5	0	0	0
17:30	7.0	0	0	0
18:00	7.5	0	0	0
18:30	8.0	0	0	0
Maximum Change:		0	0	0

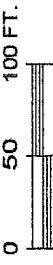
GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	MW-4	MW-6
Nearest Extraction Well:		MW-1	MW-1	MW-1
Approximate Distance:		40 ft	73 ft	65 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		27.48	24.35	23.17
14:30	4 hours	27.48	24.33	23.18
18:30	8 hours	27.51	24.35	23.27
Maximum Change:		-0.03	-0.02	-0.10

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
ELEVATION = 103.38
(ASSUMED)



- LEGEND:
- ⊗ POWER POLE
 - ⊠ TELE. PED.
 - ⊙ TYPE II MONITORING WELL
 - ⊙ TYPE III MONITORING WELL
 - ⊙ SIGN
 - WATER SAMPLE LOCATION

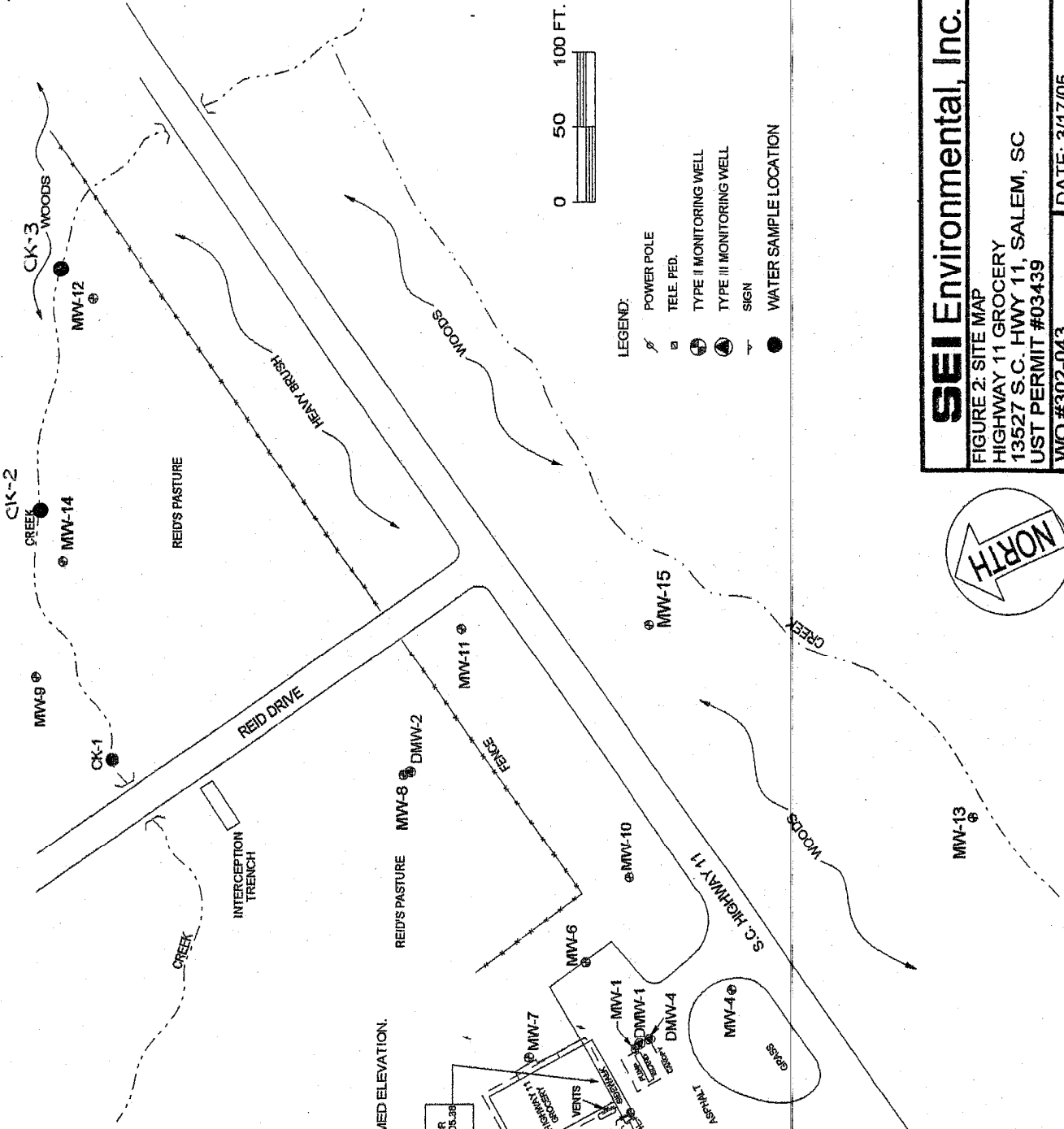


SEI Environmental, Inc.

FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

DATE: 3/17/05
 DRAWN BY: JCJ

WO #302-043
 DWG #H101692G



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

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

MIDLANDS ENVIRONMENTAL
1144 TWO NOTCH ROAD
COLUMBIA, SC

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

T K TANK SERVICES INC.

803-418-2314

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

T K TANK SERVICES, LLC
125 BOULEVARD ROAD
CURTIS, SC 29151

Facility's Phone:

803-418-2314

9. Waste Shipping Name and Description

10. Containers

No. Type

11. Total Quantity

12. Unit Wt./Vol.

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Site				
HVP Groc.			AP 3360	GAL
Phillips Best Pop.		1		
Shelton Food Store				
Best Buy				
Boles				
Midway				
Pantry 640				
John Joes				
Handy Pantry 89A				
" " HB				
Sportsman Corner				
Scot Newb.				
Handy Pantry 89				

13. Special Handling Instructions and Additional Information

MIDLANDS ENVIRONMENTAL
LEXINGTON, SC

Site
JH Cromer

UST#
14564

Gallons
60

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/Officer's Printed/Typed Name

Signature

Month Day Year

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Joseph W. Stanton

[Signature]

9/17/10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

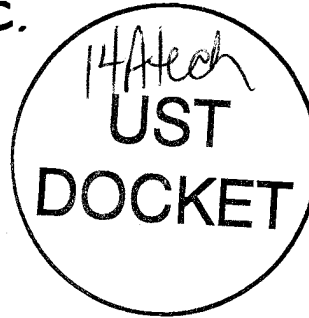
TRANSPORTER

DESIGNATED FACILITY

 **Midlands
Environmental
Consultants, Inc.**

September 17, 2010

Mr. Joel P. Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #39196
MECI Project Number 10-2910B
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on September 1, 2010. The event was conducted on monitoring well MW-8 to remove free phase petroleum product. Free phase petroleum product was detected in monitoring well MW-8 at a thickness of 1.90 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 15.36 pounds or approximately 2.65 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.92 pounds per hour. Concentrations of off gas produced during the event were recorded from 356 parts per million by volume (PPM) to 2,510 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 11.0 to 21.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 1.

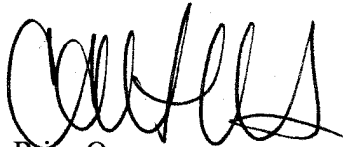
A total of 150 gallons of liquid was removed from MW-8 during this event. Free phase petroleum product was observed in the sight tube of the knock-out tank at a thickness of 0.042 feet immediately following the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Brian Owen
Field Technician

Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1B
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910B
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	
MW-8	09/01/10	19:00	0.50	11.0	955	2,840	255.60	2.93	1.46
	09/01/10	19:30	0.50	13.0	468	2,350	211.50	1.19	0.59
	09/01/10	20:00	0.50	15.0	356	2,240	201.60	0.86	0.43
	09/01/10	20:30	0.50	19.0	1,653	1,470	132.30	2.62	1.31
	09/01/10	21:00	0.50	19.0	1,644	1,500	135.00	2.66	1.33
	09/01/10	21:30	0.50	20.0	2,510	1,190	107.10	3.23	1.61
	09/01/10	22:00	0.50	20.0	2,434	1,190	107.10	3.13	1.56
	09/01/10	22:30	0.50	21.0	2,232	1,080	97.20	2.60	1.30
	09/01/10	23:00	0.50	21.0	1,922	600	54.00	1.25	0.62
	09/01/10	23:30	0.50	21.0	2,037	600	54.00	1.32	0.66
	09/01/10	0:00	0.50	21.0	2,086	590	53.10	1.33	0.66
	09/01/10	0:30	0.50	21.0	1,991	600	54.00	1.29	0.65
	09/01/10	1:00	0.50	21.0	1,984	610	54.90	1.31	0.65
	09/01/10	1:30	0.50	21.0	1,954	620	55.80	1.31	0.65
	09/01/10	2:00	0.50	21.0	1,916	630	56.70	1.30	0.65
	09/01/10	2:30	0.50	21.0	1,879	610	54.90	1.24	0.62
	09/01/10	3:00	0.50	21.0	1,820	590	53.10	1.16	0.58
									TOTAL 15.36
Well No.	Diameter (in)	Screened Interval (ft)	Pre AFVR Event	Post AFVR Event	Depth to Product Water (ft)	Product Thickness (ft)	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)
MW-8	2"	15-30	23.70	23.41	23.70	1.90	23.43	0.02	1.35
Well ID	Well ID	Stinger Depth	Recovery / Disposal Information						
MW-8	MW-8	24.00	Hydro carbons Removed (vapor): 15.36 Pounds Hydro carbons Removed (liquid): 0 Gallons Total Hydrocarbons Removed: 2.65 Equivalent Gallons Molecular Weight Utilized: 75 g / mole Disposal Facility: TK Tank Services, Inc. Total Liquids Removed: 150 Gallons						
Corrected depth to water before AFVR ever vent in MW-8 =									

**TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910B
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-6	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		169 ft	160 ft	100 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
19:00	0.0	0	0	0
19:30	0.5	0	0	0
20:00	1.0	0	0	0
20:30	1.5	0	0	0
21:00	2.0	0	0	0
21:30	2.5	0	0	0
22:00	3.0	0	0	0
22:30	3.5	0	0	0
23:00	4.0	0	0	0
23:30	4.5	0	0	0
0:00	5.0	0	0	0
0:30	5.5	0	0	0
1:00	6.0	0	0	0
1:30	6.5	0	0	0
2:00	7.0	0	0	0
2:30	7.5	0	0	0
3:00	8.0	0	0	0
Maximum Change:		0	0	0

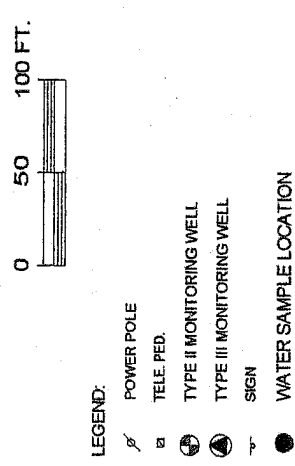
GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-6	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		169 ft	160 ft	100 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		23.22	21.01	18.12
23:00	4 hours	23.22	21.06	18.13
3:00	8 hours	23.21	21.06	18.12
Maximum Change:		0.01	-0.05	0.01

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	98.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

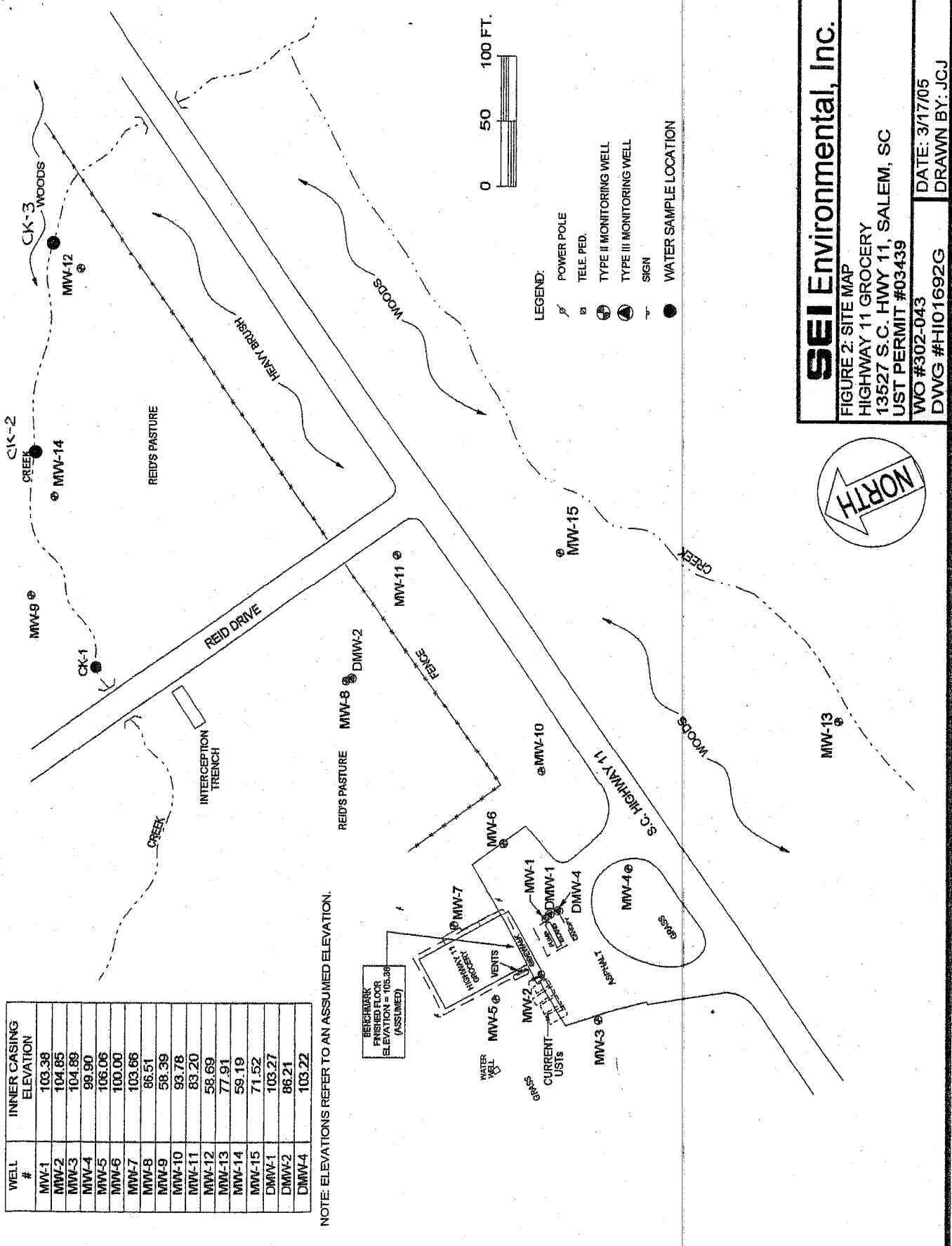
NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 103.38
(ASSUMED)



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043
 DWG #HI01692G

DATE: 3/17/05
 DRAWN BY: JCJ



* **NON-HAZARDOUS WASTE MANIFEST** 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Waste Tracking Number

5. Generator's Name and Mailing Address
 Generator's Site Address (if different than mailing address)
MIDLANDS ENVIRONMENTAL
1131 TWO NOTCH ROAD
COLUMBIA, SC

Generator's Phone:
 6. Transporter 1 Company Name **T K TANK SERVICES INC.** U.S. EPA ID Number **303-418-2311**

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address **T K TANK SERVICES, INC** U.S. EPA ID Number
125 BOULEVARD ROAD
SUMTER, SC 29153
 Facility's Phone: **803-418-2314**

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Site				
HVY Groc.				
Phillips Best. Prop.				
Shelton Food store				
Best Buy				
Boles				
Midway				
Pantry 640				
Forner Joes				
Handy Pantry 89A				
" HB				
Sportsman Corner				
Spot Newb.				
Handy Pantry 89				

13. Special Handling Instructions and Additional Information
MIDLANDS ENVIRONMENTAL
LEXINGTON, SC
 Site **JH Cromer** UST# **14564** Gallons **60**

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/Officer's Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name **Joseph W. Stanton** Signature _____ Month **9** Day **17** Year **10**
 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

17. Discrepancy
 17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number
 Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month _____ Day _____ Year _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

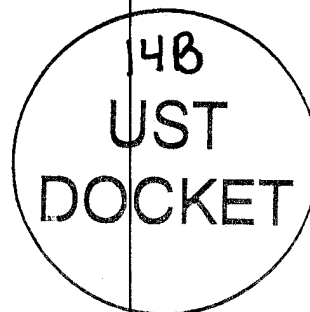


Midlands Environmental Consultants, Inc.



October 14, 2010

Mr. Joel P. Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #39196
MECI Project Number 10-2910C
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on October 4, 2010. The event was conducted on monitoring well MW-1 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring well MW-1 prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 6.12 pounds or approximately 1.06 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.77 pounds per hour. Concentrations of off gas produced during the event were recorded from 721 parts per million by volume (PPM) to 1,479 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 17.0 to 24.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1C.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2C. Monitoring well locations are depicted on attached Figure 1.

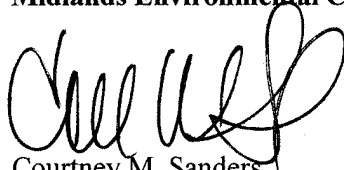
A total of 50 gallons of liquid was removed from MW-1 during this event. Free phase petroleum product was not observed in the holding tank immediately following the event. The fluids produced were transported to TK Tank Services, Inc of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

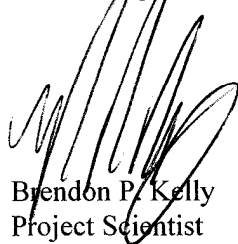
The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1C
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910C
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs		
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr			
MW-1	10/04/10	11:30	0.50	17.0	721	1,100	99.00	0.86	0.43		
	10/04/10	12:00	0.50	17.0	988	1,110	99.90	1.18	0.59		
	10/04/10	12:30	0.50	17.0	1,023	1,110	99.90	1.23	0.61		
	10/04/10	13:00	0.50	21.0	1,216	680	61.20	0.89	0.45		
	10/04/10	13:30	0.50	21.0	1,382	710	63.90	1.06	0.53		
	10/04/10	14:00	0.50	21.0	1,311	700	63.00	0.99	0.50		
	10/04/10	14:30	0.50	21.0	1,233	690	62.10	0.92	0.46		
	10/04/10	15:00	0.50	24.0	1,186	280	25.20	0.36	0.18		
	10/04/10	15:30	0.50	24.0	1,122	290	26.10	0.35	0.18		
	10/04/10	16:00	0.50	24.0	1,341	360	32.40	0.52	0.26		
	10/04/10	16:30	0.50	24.0	1,405	370	33.30	0.56	0.28		
	10/04/10	17:00	0.50	24.0	1,424	340	30.60	0.52	0.26		
	10/04/10	17:30	0.50	24.0	1,406	340	30.60	0.52	0.26		
	10/04/10	18:00	0.50	24.0	1,439	360	32.40	0.56	0.28		
	10/04/10	18:30	0.50	24.0	1,479	380	34.20	0.61	0.30		
	10/04/10	19:00	0.50	24.0	1,454	350	31.50	0.55	0.27		
	10/04/10	19:30	0.50	24.0	1,429	360	32.40	0.56	0.28		
									TOTAL 6.12		
Well Data:					Pre AFVR Event					Corrected Depth to Water	
Well No.	Diameter (in)	Screened Interval (ft)	Well ID	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Change (ft)	Change (ft)
MW-1	2"	15-30	MW-1	***	26.32	***	***	27.83	***	***	1.51
Vacuum Truck Information					Recovery / Disposal Information						
Subcontractor:	MECI							6.12			Pounds
Truck Operator:	B. Owen			27.00				0			Gallons
Stack I.D. (feet)	0.33							1.06			Equivalent Gallons
								75			g / mole
											TK Tank Services, Inc.
											50
											Gallons
											Total Liquids Removed:
											Hydro carbons Removed (vapor):
											Hydro carbons Removed (liquid):
											Total Hydrocarbons Removed:
											Molecular Weight Utilized:
											Disposal Facility
											Total Liquids Removed:

**TABLE 2C
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910C
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

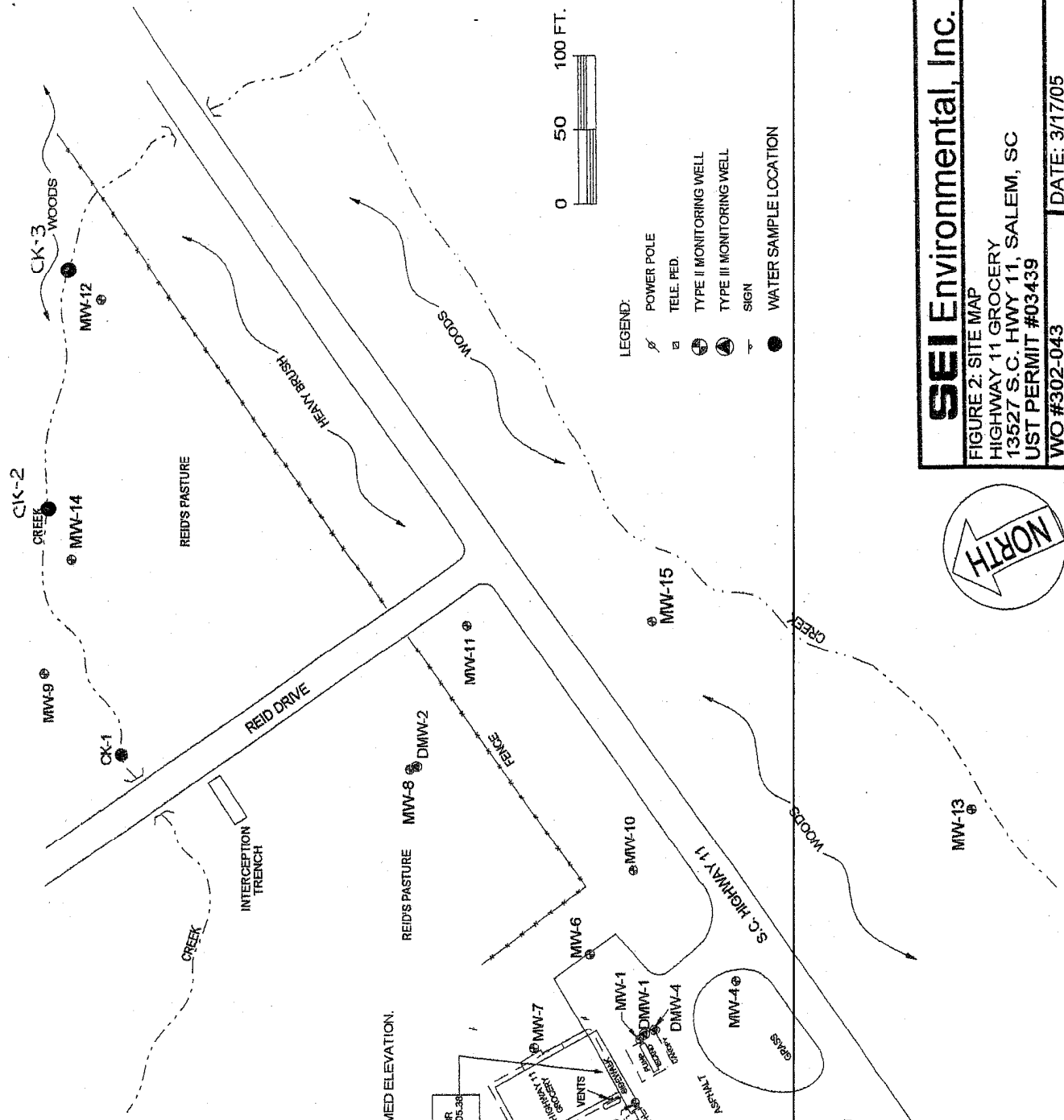
		Well Designation:		
		DMW-1	DMW-4	MW-4
Nearest Extraction Well:		MW-1	MW-1	MW-1
Approximate Distance:		6 ft	12 ft	73 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
11:30	0.0	0	0	0
12:00	0.5	0	0	0
12:30	1.0	0	0	0
13:00	1.5	0	0	0
13:30	2.0	0	0	0
14:00	2.5	0	0	0
14:30	3.0	0	0	0
15:00	3.5	0	0	0
15:30	4.0	0	0	0
16:00	4.5	0	0	0
16:30	5.0	0	0	0
17:00	5.5	0	0	0
17:30	6.0	0	0	0
18:00	6.5	0	0	0
18:30	7.0	0	0	0
19:00	7.5	0	0	0
19:30	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		DMW-1	DMW-4	MW-4
Nearest Extraction Well:		MW-1	MW-1	MW-1
Approximate Distance:		6 ft	12 ft	73 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
	Prior to AFVR	26.50	26.91	24.52
15:30	4 hours	26.57	27.00	24.53
19:30	8 hours	26.58	27.01	24.55
Maximum Change:		-0.08	-0.10	-0.03

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043
 DWG #HI01692G
 DATE: 3/17/05
 DRAWN BY: JCJ



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

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

1819317

HIGHLANDS ENVIRONMENTAL
1134 TWO NOTCH ROAD
LEXINGTON, VA 22075

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

TK TANK SERVICE

SUMNER, VA

987573587

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

TK TANK SERVICES
175 BOWLBY ROAD
SUMNER, VA 22915

Facility's Phone:

803-418-9311

987573587

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total Quantity

12. Unit Wt./Vol.

1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER

1

71

2500

Gal.

2. Pantry 3418 - 05042 - 170 Gal.
Pantry 3418 - 05042 - 170 Gal.
Highway 11 Grocery - 03439 - 50 Gal.

3. Highway 11 Grocery - 03439 - 80 Gal.
Former Royal Petro. 19426 - 270 Gal.
Town of Winstboro - 03148 - 100 Gal.

4. Town of Winstboro - 03148 - 180 Gal.
Milway Service - 13046 - 105 Gal.
Chester School Bus - 02044 - 250 Gal.

13. Special Handling Instructions and Additional Information

Winners Circle - 230 Gal.
Pantry 3235 175 Gal.
SCDOT Marion - 04175 - 140 Gal.
Wack's Camp 701293 - 175 Gal.
Corner cupboard - 01779 - 150 Gal.

Ridgeway - 03144 - 75 Gal.
Ridgeway - 03144 - 75 Gal.
S. Store 583 - 125 Gal.
Satterfield - 14212 - 175 Gal.

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/Officer's Printed/Typed Name

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

Signature

Month Day Year

Joseph W. STANTON

[Signature]

10/15/10

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

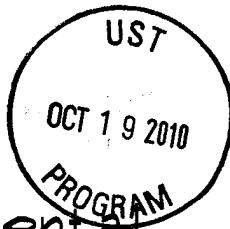
Printed/Typed Name

Signature

Month Day Year



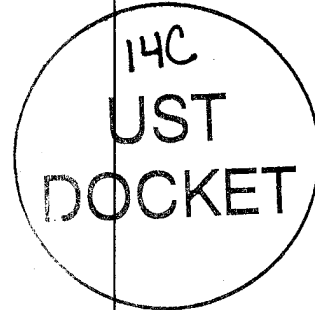
Midlands Environmental Consultants, Inc.



October 14, 2010

Mr. Joel P. Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #39196
MECI Project Number 10-2910D
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on October 4 and 5, 2010. The event was conducted on monitoring well MW-8 to remove free phase petroleum product. Free phase petroleum product was detected in monitoring well MW-8 at a thickness of 0.37 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 1.13 pounds or approximately 0.20 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.14 pounds per hour. Concentrations of off gas produced during the event were recorded from 9.9 parts per million by volume (PPM) to 521 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 11.0 to 25.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1D.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2D. Monitoring well locations are depicted on attached Figure 1.

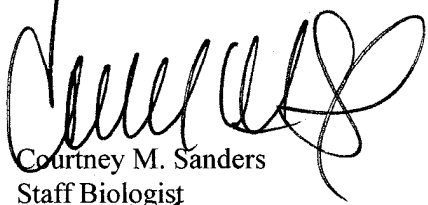
A total of 50 gallons of liquid was removed from MW-8 during this event. Free phase petroleum product was not observed in the holding tank immediately following the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

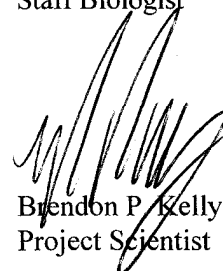
The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

TABLE 1D
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910D
SCDHEC SITE ID NUMBER 03439

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs	
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr		
MW-8	10/04/10	20:00	0.50	11.0	521	1,860	167.40	1.05	0.52	
	10/04/10	20:30	0.50	11.0	503	1,860	167.40	1.01	0.51	
	10/04/10	21:00	0.50	24.0	124	400	36.00	0.05	0.03	
	10/04/10	21:30	0.50	24.0	80.2	390	35.10	0.03	0.02	
	10/04/10	22:00	0.50	24.0	51.5	370	33.30	0.02	0.01	
	10/04/10	22:30	0.50	24.0	28.7	380	34.20	0.01	0.01	
	10/04/10	23:00	0.50	24.0	30.2	390	35.10	0.01	0.01	
	10/04/10	23:30	0.50	24.0	33.7	390	35.10	0.01	0.01	
	10/05/10	0:00	0.50	24.0	24.4	380	34.20	0.01	0.01	
	10/05/10	0:30	0.50	24.0	19.3	370	33.30	0.01	0.00	
	10/05/10	1:00	0.50	24.0	16.8	430	38.70	0.01	0.00	
	10/05/10	1:30	0.50	24.0	14.2	460	41.40	0.01	0.00	
	10/05/10	2:00	0.50	24.0	12.3	380	34.20	0.01	0.00	
	10/05/10	2:30	0.50	24.0	9.9	340	30.60	0.00	0.00	
	10/05/10	3:00	0.50	25.0	11.9	430	38.70	0.01	0.00	
	10/05/10	3:30	0.50	25.0	11.5	410	36.90	0.01	0.00	
	10/05/10	4:00	0.50	25.0	11.0	430	38.70	0.01	0.00	
									TOTAL 1.13	
Well Data:					Pre AFVR Event					Corrected Depth to Water
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Product (ft)	Product Thickness (ft)	Depth to Product (ft)	Water (ft)	Product Thickness (ft)	Product Thickness (ft)	Change (ft)
MW-8	2"	15-30	22.37	22.74	0.37	22.54	22.54	***	***	0.11
Vacuum Truck Information					Recovery / Disposal Information					
Subcontractor:	MECI		Well ID	MW-8		Hydro carbons Removed (vapor):		1.13 Pounds		
Truck Operator:	B. Owen		Stinger Depth	23.50		Hydro carbons Removed (liquid):		0 Gallons		
Stack I.D. (feet)	0.33 feet					Total Hydrocarbons Removed:		0.20 Equivalent Gallons		
Corrected depth to water before AFVR ever vent in MW-8 =			22.43			Molecular Weight Utilized:		75 g / mole		
						Disposal Facility		TK Tank Services, Inc.		
						Total Liquids Removed:		50 Gallons		

**TABLE 2D
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2910D
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		DMW-2	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		8 ft	160 ft	100 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
20:00	0.0	0	0	0
20:30	0.5	0	0	0
21:00	1.0	0	0	0
21:30	1.5	0	0	0
22:00	2.0	0	0	0
22:30	2.5	0	0	0
23:00	3.0	0	0	0
23:30	3.5	0	0	0
0:00	4.0	0	0	0
0:30	4.5	0	0	0
1:00	5.0	0	0	0
1:30	5.5	0	0	0
2:00	6.0	0	0	0
2:30	6.5	0	0	0
3:00	7.0	0	0	0
3:30	7.5	0	0	0
4:00	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

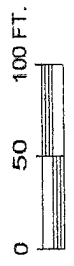
		Well Designation:		
		DMW-2	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		8 ft	160 ft	100 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
	Prior to AFVR	18.48	21.20	18.27
0:00	4 hours	18.41	21.21	18.30
4:00	8 hours	18.36	21.22	18.34
Maximum Change:		0.12	-0.02	-0.07

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	98.90
MW-5	105.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

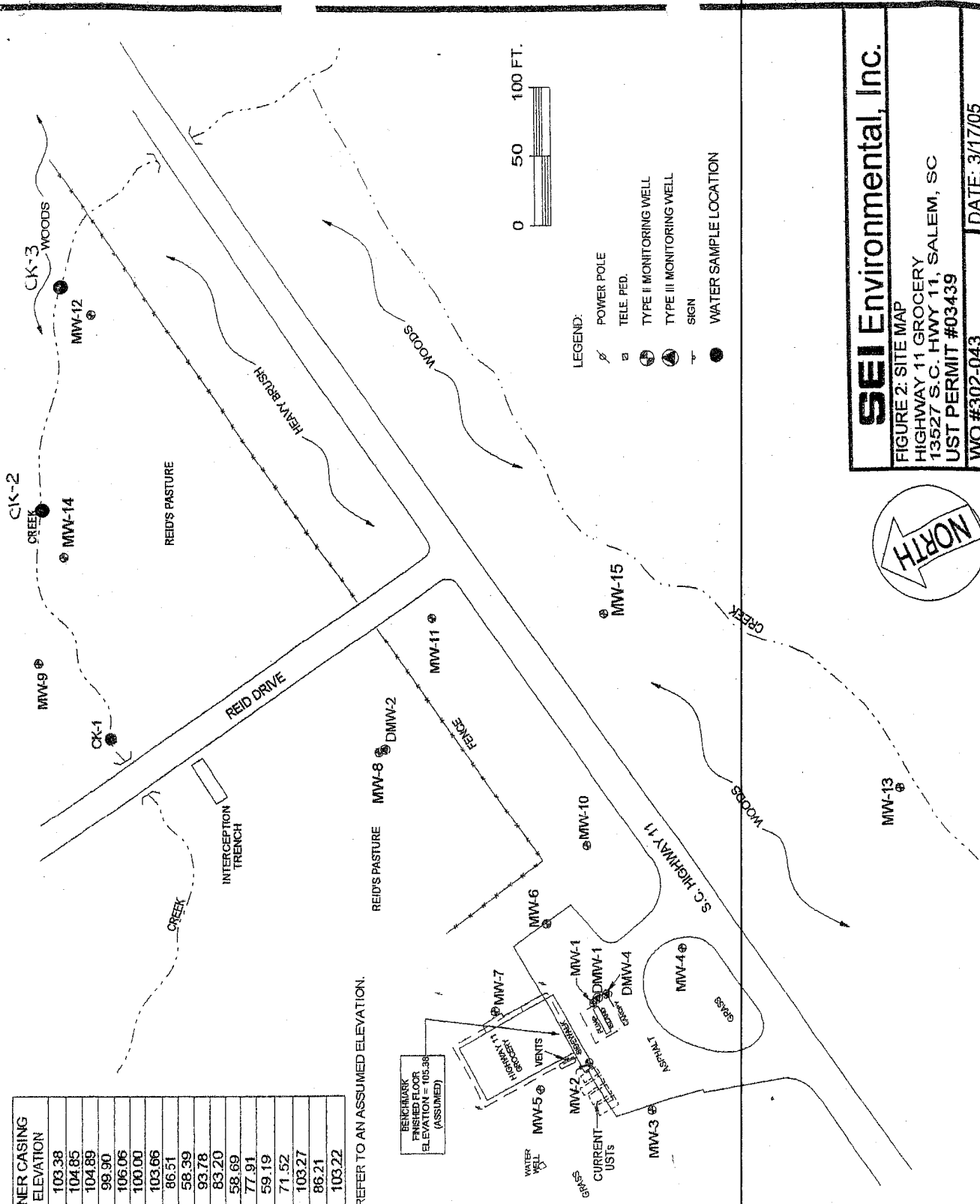
NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)

- LEGEND:
- ⊕ POWER POLE
 - ⊞ TELE. PED.
 - ⊕ TYPE II MONITORING WELL
 - ⊕ TYPE III MONITORING WELL
 - ⊞ SIGN
 - WATER SAMPLE LOCATION



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043
 DWG #H101692G
 DATE: 3/17/05
 DRAWN BY: JCJ



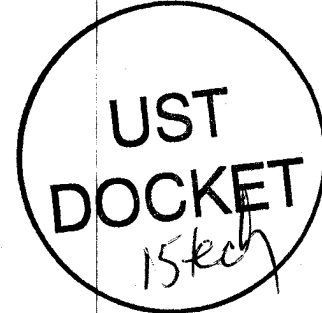
NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address			Generator's Site Address (if different than mailing address)		TR10017
MIDLANDS ENVIRONMENTAL 1134 TWO NOTCH ROAD LEXINGTON, VA 29072					
Generator's Phone:					
6. Transporter 1 Company Name		7. Transporter 2 Company Name		U.S. EPA ID Number	
TR TANK SERVICE		SUMTER, SC		387573557	
8. Designated Facility Name and Site Address			U.S. EPA ID Number		
TR TANK SERVICES 305 BOUL EVARD ROAD SUMTER, SC 29186					
Facility's Phone:			803-418-5311		787573557
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		1	71	2500 GAL.	
2. Pantry 3418 - 05042 - 170 Gal. Pantry 3418 - 05042 - 170 Gal. Highway 11 Grocery - 03439 - 50 Gal.					
3. Highway 11 Grocery - 03439 - 50 Gal. Former Royal Petro - 14426 - 270 Gal. Town of Wimsboro - 03148 - 100 Gal.					
4. Town of Wimsboro - 03148 - 150 Gal. Midway Service - 13046 - 105 Gal. Chester School Bus - 02044 - 250 Gal.					
13. Special Handling Instructions and Additional Information					
Winners Circle - 230 Gal. Pantry 3235 175 Gal. SCDOT Marton - 04175 - 140 Gal. Mack's Camp 701253 - 175 Gal. Corner Cupboard - 01779 - 150 Gal.		Ridgeway - 03144 - 75 Gal. Ridgeway - 03144 - 75 Gal. S. Store 583 - 125 Gal. Satterfield - 14212 - 125 Gal.			
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/Officer's Printed/Typed Name			Signature		Month Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____					
Transporter Signature (for exports only): _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name		Signature		Month Day Year	
Joseph W. STANTON				10/15/11	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)			Signature		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



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

NOV 04 2010



BRYAN SHANE
 MIDLANDS ENVIRONMENTAL CONSULTANTS INC
 P O BOX 854
 LEXINGTON SC 29071

Re: Bid # IFB-34007-6/3/08-EMW; PO# 4500011317
 Notice to Proceed

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct assessments at several facilities. The packets contain the necessary approval for work to begin. The facilities have been assigned Cost Agreement (CA) numbers as listed below. Please reference the CA numbers and Purchase Order # 4500011317 on the appropriate invoices submitted for payment against the facilities. As specified in the referenced bid, **the completed invoice forms and associated reports (include contract certification number) are expected on or before the designated due date (see below).**

UST Permit#	Facility	County	Release #	Work Scope	Due Date*	CA #	Approved Amt
02032	Southern Store 583	Cherokee	1	Monitoring Well Installation	60 Days	40343	\$6,825.00
03439	Highway 11 Grocery	Oconee	1	Monitoring Well Installation	60 Days	40438	\$6,574.00
15120	Davis Site	Clarendon	1	Monitoring Well Installation	60 Days	40402	\$9,100.00

*From receipt of letter

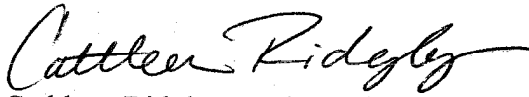
Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the SUPERB Account. The site's UST owners have no obligation for payment for this scope of work. **Please note, if there are any changes in the established cost agreement amounts (e.g., additional water supply wells sampled, additional well footage, etc.) contact the site's project manager for technical and/or financial approval. Failure to do so prior to submittal of invoice may result in delay of payment.**

The Bureau grants pre-approval for transportation of drums of virgin petroleum contaminated soil and drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers.

The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report. Please note, transportation of waste oil contaminated soil must receive pre-approval from the Division of Waste Assessment & Emergency Response.

Please provide this office with a schedule of drilling dates and coordinate all work with me before commencing work at the facility. If you have any questions or need further assistance, please contact me at (803) 896-6633.

Sincerely,



Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Monitoring Well Approvals (MWA)
Approved Cost Agreements (ACA)
Information Packets

cc: Cathleen Ridgley, UST Management Division (w/out enc)
Technical Files (w/ copy of MWA, ACA, & Site Map)



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to: **Midlands Environmental Consultants, Inc.**

On behalf of: **Mr. Steve Smith**

Facility: **Highway 11 Grocery**
13527 North SC-11, Salem, SC 29676

UST Permit #: **03439**

County: **Oconee**

This approval is for the installation of four four-inch monitoring/recovery wells and one two-inch monitoring well. The wells are to be installed in the approved locations in accordance with the South Carolina Well Standards, R.61-71, and 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to the project manager (tel:803-896-6633 or e-mail: ridglect@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. Departmental 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 Issue: 10/21/2010

Approval: 23956

Joel P. Padgett, P.G., Geologist/Hydrologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 40348

Facility: 03439 HWY 11 GROCERY

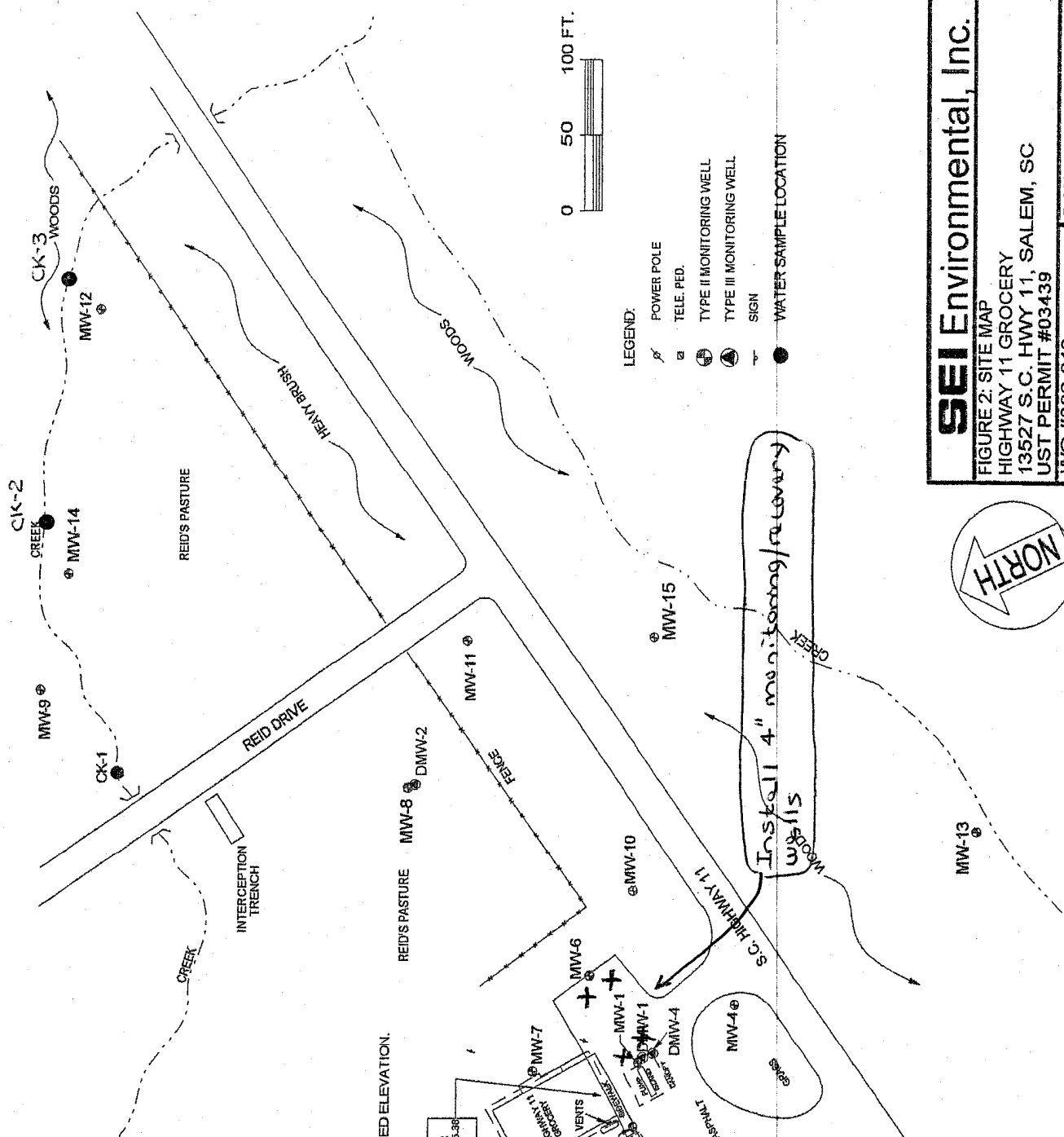
PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A EQUIPMENT	1.0000	100.00	100.00
		B PERSONNEL	3.0000	100.00	300.00
09 WELL INSTALLATION		B WATER TABLE (DRILLED)	30.0000	20.00	600.00
10 SAMPLE COLLECTION		A GROUND WATER	3.0000	25.00	75.00
		C WATER SUPPLY	1.0000	25.00	25.00
		D GROUNDWATER NO-PURGE	15.0000	25.00	375.00
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	22.0000	30.00	660.00
		P 8 OXYGENATES	22.0000	42.00	924.00
16 SUBSEQUENT SURVEY		SUBSEQUENT SURVEY	1.0000	50.00	50.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	1.0000	50.00	50.00
		C SOIL (TREATMENT/DISPOSAL)	10.0000	50.00	500.00
18 MISCELLANEOUS		4 INCH MONITORING WELL	120.0000	22.00	2,640.00
		SURFACE WATER	3.0000	25.00	75.00
23 EFR		D SITE RECONNAISSANCE	1.0000	100.00	100.00
25 WELL REPAIR		B REPAIR 2X2 MONITORING WELL PAD	1.0000	50.00	50.00
		D REPLACE WELL VAULT	1.0000	50.00	50.00
			Total Amount		6,574.00

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.

FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

DATE: 3/17/05
 DRAWN BY: JCJ

WO #302-043
 DWG #HI01692G

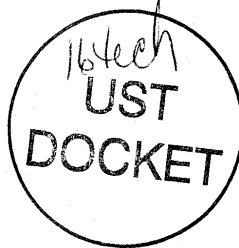


Install 4" monitoring/recovery wells



January 5, 2011

Mr. Joel Padgett, P.G., Geologist/Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Report of Recovery Well Installation
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
SCDHEC Site ID# 03439, CA # 40438
MECI Project Number 10-3090
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Recovery Well Installation for the referenced site. This report describes assessment activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

PROJECT INFORMATION

The subject site (Highway 11 Grocery) is located at 13527 South Carolina Highway 11 in Salem, South Carolina (see Figure 1). The property is currently a bar (The Post), which is adjoined to a vacant space for lease (former store front). The subject site previously maintained one 3,000 gallon gasoline underground storage tank (UST), two 6,000 gallon gasoline UST's, and one 2,000 gallon diesel UST. According to the South Carolina Underground Storage Tank Registry, these tanks were removed from the ground on September 15, 2009. The South Carolina Department of Health and Environmental Control (SCDHEC) reported and confirmed a release of petroleum product on November 28, 2000. MECI conducted a sampling event at the subject property on April 27, 2010.

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

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

FIELD EXPLORATION

Field exploration conducted at the site included:

- construction of four groundwater/free phase product recovery wells;
- monitoring well pad repair and vault replacement;
- groundwater sampling and chemical analyses of groundwater samples; and,
- a subsequent survey to locate the newly installed recovery wells.

The monitoring well location was selected based on SCDHEC project manager instructions, existing site conditions, and drilling accessibility.

RECOVERY WELL INSTALLATION

On December 1, 2010, MECI mobilized a Truck-mounted auger rig to the subject site to install several recovery wells requested by SCDHEC. During installation, auger refusal was encountered 20.0 feet below ground surface (BGS) on the initial boring (SB-1). A second attempt was made to install the recovery well approximately fifteen feet from the first boring. During this second attempt, auger refusal was encountered at 13.0 feet BGS. After consultation with SCDHEC project manager, it was decided to mobilize an air-rotary drilling rig to the subject site to install the wells at the requested depth. On December 21, 2010, three single cased 4"-recovery wells (RW-1, RW-2, RW-3, and RW-4) were installed at the subject site. These wells were installed by Geologic Exploration, of Statesville, North Carolina (S.C. Driller Certification: Jerry Watkins # B 01979). These 4-inch recovery wells were installed using a truck-mounted air rotary drilling rig employing an 10.0-inch outer diameter air hammer to construct the borehole. Monitoring well MW-7 was not replaced during the assessment due to lack of access and recent construction. Monitoring well MW-7 is enclosed in a wooden fence and under a newly constructed deck. The following table presents select well installation details.

Well Number	Screened Interval (ft)	Total Depth (ft)
RW-1	10.0-30.0	30.0
RW-2	10.0-30.0	30.0
RW-3	10.0-30.0	30.0
RW-4	10.0-30.0	30.0

The soils encountered during drilling activities consisted of micaceous fine to coarse grained sandy silts, sands, partially weathered rock, and rock of the Piedmont Physiographic Province. Rock was encountered during the installation of monitoring well RW-1, RW-2, and RW-4. Representative portions of soil samples were screened with an Photo Ionization Detector (PID) and classified by MECI personnel. Test boring records showing soil descriptions and screening result are attached.

Based on PID readings and lack on access to spread soils onsite, soil cuttings were transported to Waste Management Richland County Landfill in Elgin, South Carolina by MECI. A total 3.15 tons

was disposed of in this manner. A disposal manifest for these soils is attached at the end of this report.

Following completion of the monitoring wells, the wells were developed by bailing until they were determined to be functioning properly and turbidity was reduced. Test Boring Records showing soil descriptions and monitoring well installation details are attached. The drummed purge water was treated by MECI personnel using a granular activated carbon drum. A total of two (2) drums of purge/development water were disposed of in this manner. A disposal manifest for the drummed purge water is attached at the end of this report.

MONITORING WELL PAD REPAIR

During site reconnaissance MECI personnel noticed monitoring well MW-8 was buried and the well pad and vault were destroyed. On December 1, 2010, the well pad repair was conducted on MW-8 under the direction of Mr. Brian Cornell (SC Driller's License # C 01299) of Geologic Exploration Inc. of Statesville, NC.

SITE SURVEY

Following the well installation, a subsequent survey was conducted by MECI personnel, utilizing a fiberglass rod, level, and tape to determine the horizontal and vertical position of the newly installed monitoring wells. Elevations were based on site datum provided by SCDHEC. See Table 1 and Figure 2 for Top of Casing elevations for the newly installed recovery wells.

MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On December 13, 2010, MECI personnel collected groundwater samples from seventeen (17) monitoring wells at the subject site. Monitoring wells MW-5, MW-7, and MW-15 were not located at the time of sampling. Monitoring wells MW-8 and RW-2 were gauged and determined to contain free phase petroleum product. Monitoring well MW-8 contained free phase petroleum product at a thickness of 1.00 feet, and RW-2 at a thickness of 0.02 feet. Based on a request by SCDHEC personnel, not all of the wells were to be purged prior to sampling. Purging was completed by bailing at least three well volumes of water from the well or until pH, conductivity, dissolved oxygen stabilized to within 10%, whichever occurred first. Where applicable, field measurements of pH, conductivity, dissolved oxygen, dissolved carbon dioxide, and water temperature were obtained before well sampling process. Table 1 presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC guidelines.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) for analysis.

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

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 385.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	8 RCRA Metals (EPA Method 6010)	Ferrous Iron (Field Test)
	Analyte Sampled													
MW-1		X		X			X							
MW-2		X		X			X							
MW-3		X		X			X							
MW-4		X		X			X							
MW-6		X		X			X							
MW-8			X											
MW-9		X		X			X							
MW-10		X		X			X							
MW-11		X		X			X							
MW-12		X		X			X							
MW-13		X		X			X							
MW-14		X		X			X							
DMW-1	X			X			X							
DMW-2	X			X			X							
DMW-4	X			X			X							
RW-1	X			X			X							
RW-2			X											
RW-3	X			X			X							
RW-4	X			X			X							

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane
PAH = polycyclic aromatic hydrocarbons

The results of the laboratory analyses are summarized in Table 2 and Table 3, and presented in the attached analytical data.

SURFACE WATER SAMPLING AND CHEMICAL ANALYSIS

On December 13, 2010, three surface water samples (CK-1, CK-2, and CK-3) were collected from a nearby creek associated with the Barbecue Branch. CK-1 was collected approximately 140 feet west of MW-14. CK-2 was collected approximately 40 feet northeast of MW-14. CK-3 was collected approximately 30 feet northeast of MW-12. These samples were sent to Pace Analytical of Huntersville, North Carolina (SCDHEC Laboratory Certification #99006) for analysis. These samples were analyzed for BTEX, Naphthalene, MTBE, and 8-Oxygenates (EPA Method 8260B). The results of the laboratory analyses are summarized in Table 2 and Table 3. The detection limit for each parameter is provided in the attached laboratory reports (See Figure 2 and 3).

WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSIS

On December 13, 2010, one water supply well sample (WSW-1) was collected from the on-site water supply well. WSW-1 is located approximately 80 feet to the northwest of MW-2. This sample was analyzed for BTEX, Naphthalene, MTBE, and 8-Oxygenates (EPA Method 8260B). The results of the laboratory analyses are summarized in Table 2 and Table 3. The detection limit for each parameter is provided in the attached laboratory reports (See Figure 2 and 3).

GROUNDWATER ANALYTICAL RESULTS

As discussed above, groundwater samples obtained from the monitoring wells were analyzed for dissolved phase petroleum constituents. Free phase petroleum product was encountered in monitoring wells MW-8 and RW-2. Free phase petroleum product was detected in MW-8 at a thickness of 1.00 feet and in RW-2 at a thickness of 0.02 feet. The analytical results indicate petroleum impact to the local groundwater with the highest dissolved concentrations detected in the area of monitoring well RW-3. The analytical results indicate dissolved total BTEX concentrations ranging from levels below detection limits (BDL) to 46,400 micrograms per liter in RW-3. The analytical results indicate dissolved MTBE concentrations ranging from below detection limits (BDL) to 30,400 micrograms per liter in MW-1. The results of the analyses for each monitoring well and specific parameters are listed on Table 2 and Table 3. The detection limit for each parameter is provided in the attached laboratory reports.

SURFACE WATER ANALYTICAL RESULTS

The surface water samples (CK-1, CK-2, and CK-3) obtained from a down gradient creek were analyzed by Pace Analytical, Inc. for petroleum constituents. Analytical results indicate petroleum impact to all surface water samples collected. Analytical results indicate Total BTEX concentrations at 22.0J micrograms per liter, and MTBE concentrations 5.4 micrograms per liter in CK-1. Analytical results indicate Total BTEX concentrations at 92.7 micrograms per liter, MTBE concentrations 23.2 micrograms per liter, and Naphthalene concentrations at 6.8 micrograms per liter in CK-2. Analytical results indicate Total BTEX concentrations at 107.0 micrograms per liter, MTBE concentrations 28.1 micrograms per liter, and Naphthalene concentrations at 3.7J micrograms per liter in CK-3. The results of the analyses are presented on Table 2 and Table 3 and the detection limits for each parameter is provided in attached laboratory results.

WATER SUPPLY WELL ANALYTICAL RESULTS

The water supply well sample (WSW-1) obtained from the on-site water supply well was analyzed by Pace Analytical, Inc. for petroleum constituents. Analytical results do not indicate petroleum impact to the on-site water supply well. The results of the analyses are presented on Table 2 and Table 3 and the detection limits for each parameter is provided in attached laboratory results.

ASSESSMENT SUMMARY

Groundwater elevation data for the December 13, 2010, gauging event was plotted, and points of equal elevation were interpolated between the monitoring wells. A groundwater contour map of the

surficial aquifer was thus prepared and is presented on Figure 3. Groundwater appears to be flowing in a northern direction, towards the creek associated with Barbecue Branch.

Free phase petroleum product was encountered in monitoring wells MW-8 and RW-2. Free phase petroleum was detected in MW-8 at a thickness of 1.00 feet and in RW-2 at a thickness of 0.02 feet. The concentrations of dissolved total BTEX (indicator of the dissolved phase plume) in the groundwater on and surrounding the site range from levels below detection limits (BDL) to 46,400 micrograms per liter in RW-3. The concentrations of dissolved MTBE in the groundwater on and surrounding the site range from levels below detection limits (BDL) to 30,400 micrograms per liter in MW-1. Figure 4 depicts graphically the concentrations of Total BTEX (indicator for plume migration) dissolved in the groundwater at the site. Figure 5 depicts graphically the concentrations of MTBE dissolved in the groundwater at the site

QUALIFICATIONS OF REPORT

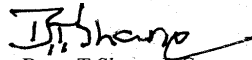
The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report is intended for the sole use by the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist


Bryan T. Shane, P.G.
Principal Geologist

Attachments

TABLES

TABLE 1
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FIELD PARAMETERS
DECEMBER 13, 2010 SAMPLING EVENT
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-3090
SCDHEC SITE ID NUMBER 03439

Well Number	Sample Date	Dissolved CO ₂ (mg/l)	Dissolved Oxygen (mg/l)	Temperature (° Celsius)	pH		Conductivity		Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
					(Initial)	(Final)	(Initial)	(Final)						
MW-1	12/13/10	75	0.81	14.1	6.62	NT	52.8	NT	15-30	***	26.92	***	103.38	76.46
MW-2	12/13/10	25	1.14	17.0	5.54	NT	26.8	NT	20-35	***	28.00	***	104.85	76.85
MW-3	12/13/10	Too Cloudy	5.38	15.5	6.17	NT	28.6	NT	20-30	***	26.71	***	104.89	78.18
MW-4	12/13/10	200+	0.86	16.1	5.98	NT	52.2	NT	20-35	***	24.04	***	99.90	75.86
MW-5	12/13/10	NL	NL	NL	NL	NL	NL	NL	20-35	***	NL	***	106.06	NL
MW-6	12/13/10	60	0.76	17.9	6.20	NT	46.4	NT	20-35	***	23.60	***	100.00	76.40
MW-7	12/13/10	NL	NL	NL	NL	NL	NL	NL	25-40	***	NL	***	103.66	NL
MW-8	12/13/10	PROD	PROD	PROD	PROD	PROD	PROD	PROD	15-30	22.70	23.70	1.00	86.51	63.66
MW-9	12/13/10	10	4.60	12.6	8.66	NT	36.2	NT	2-10	***	2.30	***	58.39	56.09
MW-10	12/13/10	NT	2.27	16.7	6.15	NT	39.9	NT	13-28	***	20.59	***	93.78	73.19
MW-11	12/13/10	40	3.87	13.1	8.25	NT	41.0	NT	8-23	***	15.80	***	83.20	67.40

- Notes:
1. mg/l = milligrams per liter.
 2. Groundwater depths were measured from the top of the PVC riser.
 3. Final groundwater levels measured 12/13/10.
 4. Elevations based on assumed site datum.
 5. Dissolved oxygen, dissolved carbon dioxide, initial pH, initial conductivity, and temperature measurements obtained on 12/13/10.
 6. Groundwater elevation for monitoring wells MW-8 and RW-2 corrected for the presence of free phase petroleum product using a specific gravity of fuel of 0.85
 7. NL = Not Located
 8. BGS = Below Ground Surface
 9. NT = Not Tested
 10. SHEEN = Petroleum Sheen Present

TABLE 1
PAGE 2 OF 2
FIELD PARAMETERS
DECEMBER 13, 2010 SAMPLING EVENT
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-3090
SCDHEC SITE ID NUMBER 03439

Well Number	Sample Date	Dissolved CO ₂ (mg/l)	Dissolved Oxygen (mg/l)	Temperature (° Celsius)	pH (Initial) (Final)		Conductivity (Initial) (Final)		Screened Interval (ft BGS)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-12	12/13/10	30	2.40	9.6	9.28	NT	26.4	NT	2-12	***	3.33	***	58.69	55.36
MW-13	12/13/10	Too Cloudy	1.89	12.1	8.13	NT	41.2	NT	2-12	***	6.27	***	77.91	71.64
MW-14	12/13/10	200+	1.07	12.3	8.81	NT	87.0	NT	2-10	***	2.53	***	59.19	56.66
MW-15	12/13/10	NL	NL	NL	NL	NL	NL	NL	4-9	***	NL	***	71.52	NL
DMW-1	12/13/10	175	4.29	17.6	6.26	6.68	33.4	24.8	40-45	***	26.45	***	103.27	76.82
DMW-2	12/13/10	80	2.37	15.2	8.54	7.77	36.3	38.2	65-75	***	17.85	***	86.21	68.36
DMW-4	12/13/10	20	5.08	16.9	7.18	6.70	36.0	29.5	55-60	***	26.90	***	103.22	76.32
RW-1	12/13/10	40	2.92	16.8	7.60	7.37	79.1	72.9	10-30	***	26.65	***	103.29	76.64
RW-2	12/13/10	PROD	PROD	PROD	PROD	PROD	PROD	PROD	10-30	26.63	26.65	0.02	102.85	76.22
RW-3	12/13/10	20	2.62	17.7	6.25	SHEEN	37.7	SHEEN	10-30	***	23.68	***	100.25	76.57
RW-4	12/13/10	35	2.11	16.6	6.47	6.18	43.8	37.1	10-30	***	24.34	***	101.00	76.66

- Notes:
1. mg/l = milligrams per liter.
 2. Groundwater depths were measured from the top of the PVC riser.
 3. Final groundwater levels measured 12/13/10.
 4. Elevations based on assumed site datum.
 5. Dissolved oxygen, dissolved carbon dioxide, initial pH, initial conductivity, and temperature measurements obtained on 12/13/10.
 6. Groundwater elevation for monitoring wells MW-8 and RW-2 corrected for the presence of free phase petroleum product using a specific gravity of fuel of 0.85
 7. NL = Not Located
 8. BGS = Below Ground Surface
 9. NT = Not Tested
 10. SHEEN = Petroleum Sheen Present

TABLE 2
PAGE 1 OF 2
GROUNDWATER ANALYTICAL RESULTS
DECEMBER 13, 2010 SAMPLING EVENT
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-3090
SCDHEC ID NUMBER 03439

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)
MW-1	12/13/10	4,530	8,750	1,150	6,430	20,860	30,400	529	<250
MW-2	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-3	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-4	12/13/10	520	224	55.2	482	1,281.2	763	18.2J	<25.0
MW-5	12/13/10	NL	NL	NL	NL	NL	NL	NL	NL
MW-6	12/13/10	1,300	6,340	360	7,910	15,910	2,500	<250	<250
MW-7	12/13/10	NL	NL	NL	NL	NL	NL	NL	NL
MW-8	12/13/10	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-10	12/13/10	50.0	8.0	5.2	51.7	114.9	22.9	<5.0	<5.0
MW-11	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-12	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-13	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. 1,2 DCA = 1,2-Dichloroethane
7. EDB = Ethylene Dibromide
8. NL = Not Located
9. PROD = Free Phase Petroleum Product
10. NT = Not Tested
11. "J" Values used in Total BTEX Calculations
12. "J" Values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 2
PAGE 2 OF 2
GROUNDWATER ANALYTICAL RESULTS
DECEMBER 13, 2010 SAMPLING EVENT
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-3090
SCDHEC ID NUMBER 03439

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)
MW-14	12/13/10	1,410	4,840	1,490	8,450	16,190	1,500	359	<250
MW-15	12/13/10	NL	NL	NL	NL	NL	NL	NL	NL
DMW-1	12/13/10	3.0J	3.6J	<5.0	3.1J	9.7J	104	<5.0	<5.0
DMW-2	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
DMW-4	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
RW-1	12/13/10	3,550	13,500	1,190	6,220	24,460	24,500	874	<125
RW-2	12/13/10	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-3	12/13/10	4,860	20,800	3,240	17,500	46,400	10,200	1,290	<250
RW-4	12/13/10	2,390	6,720	467	4,020	13,597	7,780	169	<5.0
CK-1	12/13/10	4.4J	6.2	2.1J	9.3J	22.0J	5.4	<5.0	<5.0
CK-2	12/13/10	16.1	35.6	6.8	34.2	92.7	23.2	6.8	<5.0
CK-3	12/13/10	17.9	39.1	8.1	41.9	107.0	28.1	3.7J	<5.0
WSW-1	12/13/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. 1,2 DCA = 1,2-Dichloroethane
7. EDB = Ethylene Dibromide
8. NL = Not Located
9. PROD = Free Phase Petroleum Product
10. NT = Not Tested
11. "J" Values used in Total BTEX Calculations
12. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3
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GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
DECEMBER 13, 2010 SAMPLING EVENT
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 10-3090
SCDHEC SITE ID NUMBER 03439

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	tert Butyl Alcohol (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)
MW-1	12/13/10	3,430J	735	<5,000	1,600J	<2,500	449	<10,000	<500
MW-2	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-3	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-4	12/13/10	342J	<50.0	<500	<500	<250	25.3	<1,000	<50.0
MW-5	12/13/10	NL	NL	NL	NL	NL	NL	NL	NL
MW-6	12/13/10	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
MW-7	12/13/10	NL	NL	NL	NL	NL	NL	NL	NL
MW-8	12/13/10	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-10	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-11	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-12	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-13	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0

Notes:

1. µg/l = micrograms per liter
2. NL = Not Located
3. PROD = Free Phase Petroleum Product
4. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3
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GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
NOVEMBER 30, 2010 SAMPLING EVENT
DAVIS SITE
MANNING, SOUTH CAROLINA
MECI PROJECT NUMBER 10-3091
SCDHEC SITE ID NUMBER 15120

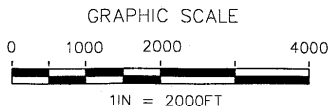
Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	tert Butyl Alcohol (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)
MW-14	12/13/10	<5,000	<500	<5,000	<5,000	<2,500	<250	<10,000	<500
MW-15	12/13/10	NL	NL	NL	NL	NL	NL	NL	NL
DMW-1	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
DMW-2	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
DMW-3	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
RW-1	12/13/10	3,850	586	<2,500	5,200	<1,250	373	<5,000	<250
RW-2	12/13/10	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-3	12/13/10	<5,000	454J	<5,000	<5,000	<2500	284	<10,000	<500
RW-4	12/13/10	581	259	<100	764	<50.0	203	<200	6.1J
CK-1	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
CK-2	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
CK-3	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
WSW-1	12/13/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0

Notes:

1. µg/l = micrograms per liter
2. NL = Not Located
3. PROD = Free Phase Petroleum Product

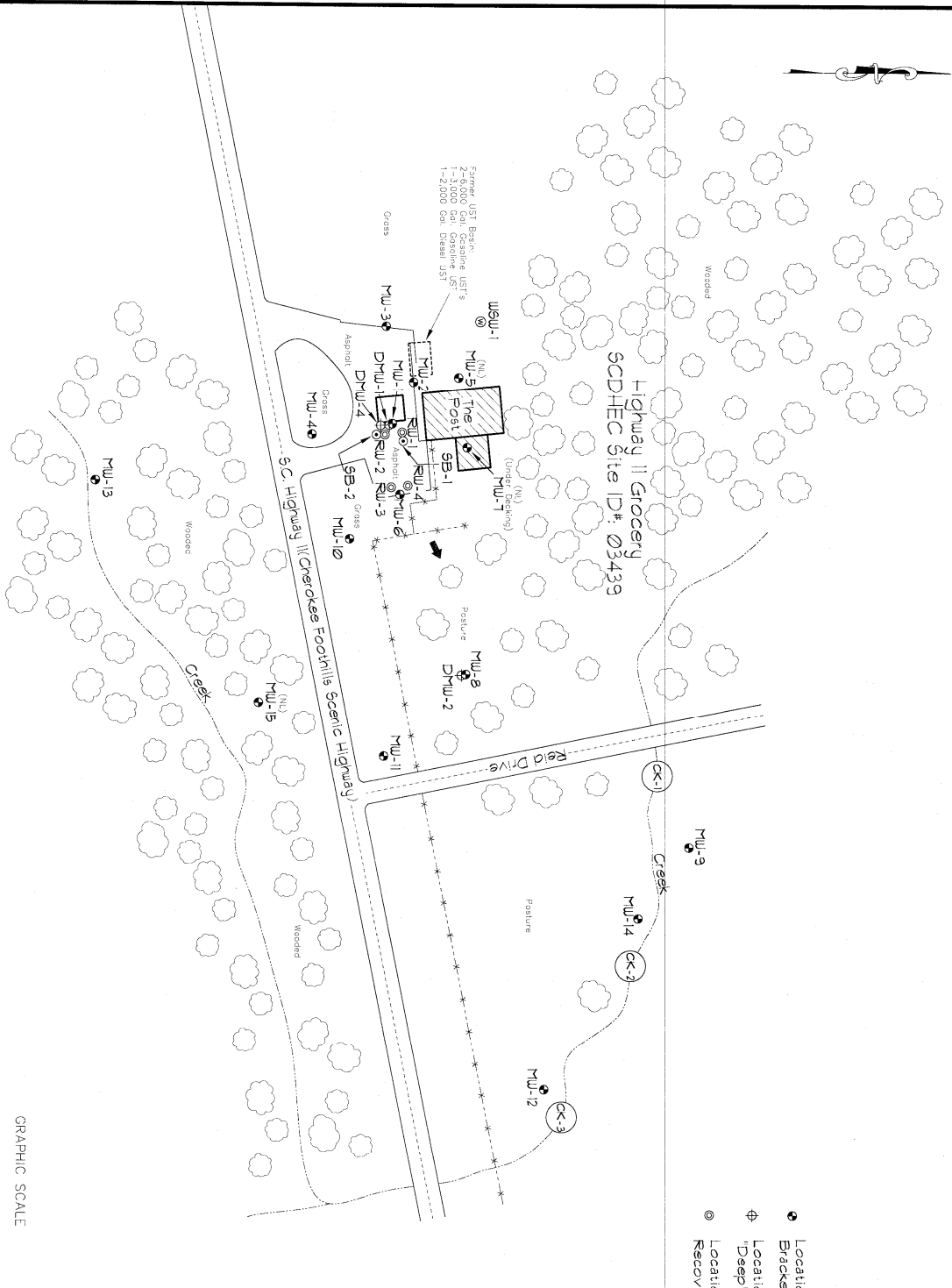
4. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

FIGURES



Reference: Salem and Old Pickens, South Carolina
 Tamassee and Walhalla, South Carolina
 USGS 7.5 Min. Quad
 Countour Interval - 20 Feet

<p>Midlands Environmental Consultants, Inc.</p>	<p>Site Location</p>
<p>Highway 11 Grocery 13527 South Carolina Highway 11, Salem, SC SCDHEC Site ID* 03439</p>	
<p>Figure 1</p>	<p>MECI 10-3090</p>

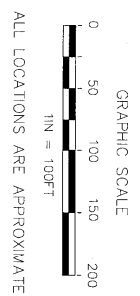


Explanation:

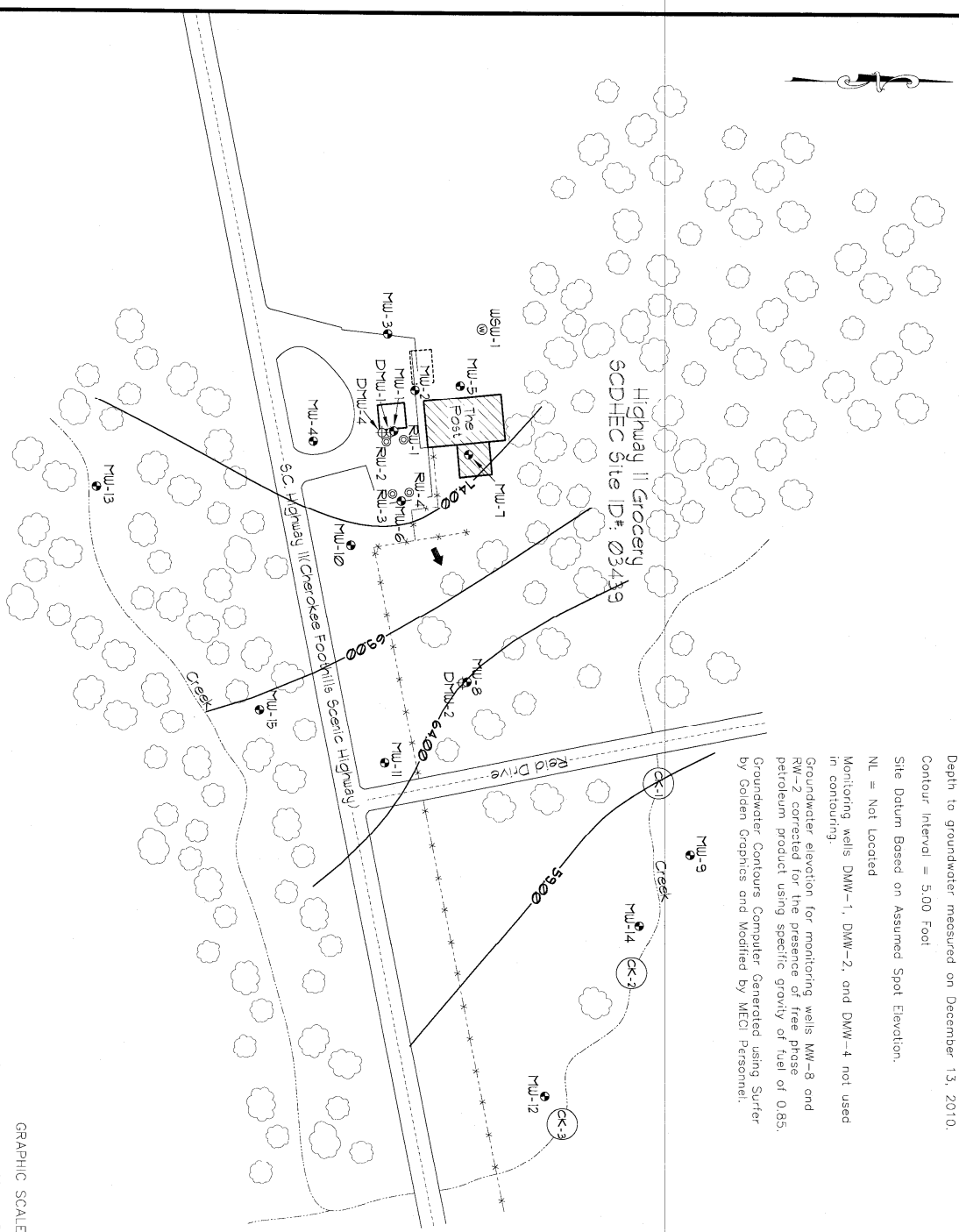
- Location of Water Table
- ⊕ Bracketing Monitoring Well
- ⊕ "Deep" Monitoring Well
- ⊙ Location of 4-inch Recovery Well
- ⊙ Location of Water Supply Well
- ⊕ Estimated Groundwater Flow Direction
- ⊙ Estimated Location of Removed Underground Storage Tanks

- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- Fence
- Fence
- Creek
- Creek

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
JOB NO. 10-5999	DATE January 5, 2010
FIGURE 2	



Notes:

- Depth to groundwater measured on December 13, 2010.
- Contour Interval = 5.00 Foot
- Site Datum Based on Assumed Spot Elevation.
- NL = Not Located
- Monitoring wells DMW-1, DMW-2, and DMW-4 not used in contouring.
- Groundwater elevation for monitoring wells MW-8 and RW-2 corrected for the presence of free phase petroleum product using specific gravity of fuel of 0.85.
- Groundwater Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

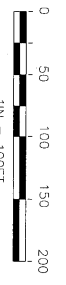
Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Recovery Well
- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Water Supply Well
- ⬆ Estimated Groundwater Flow Direction
- ⊠ Estimated Location of Removed Underground Storage Tanks

Groundwater Elevation Data

Well #	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well Head Elevation	Groundwater Elevation
MW-1	26.92	---	---	103.38	76.46
MW-2	28.00	---	---	104.85	76.85
MW-3	26.71	---	---	104.89	78.18
MW-4	24.04	---	---	99.90	75.86
MW-5	NL	---	---	106.06	NL
MW-6	23.60	---	---	100.00	76.40
MW-7	NL	---	---	103.66	NL
MW-8	22.70	23.70	1.00	86.51	63.66
MW-9	22.50	22.50	---	58.39	56.09
MW-10	20.59	93.18	---	93.18	13.19
MW-11	15.80	---	---	93.20	67.40
MW-12	3.35	---	---	58.63	55.36
MW-13	6.21	---	---	71.91	71.64
MW-14	2.53	---	---	59.19	56.66
MW-15	NL	---	---	115.2	NL
DMW-1	26.45	---	---	103.27	76.82
DMW-2	17.85	---	---	86.21	68.36
DMW-4	26.90	---	---	103.22	76.32
RW-1	26.65	---	---	103.19	76.64
RW-2	26.65	0.02	---	102.85	76.22
RW-3	---	23.60	---	100.25	76.57
RW-4	---	24.34	---	101.00	76.66

GRAPHIC SCALE



ALL LOCATIONS ARE APPROXIMATE

Groundwater Contour Map

Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID 03439

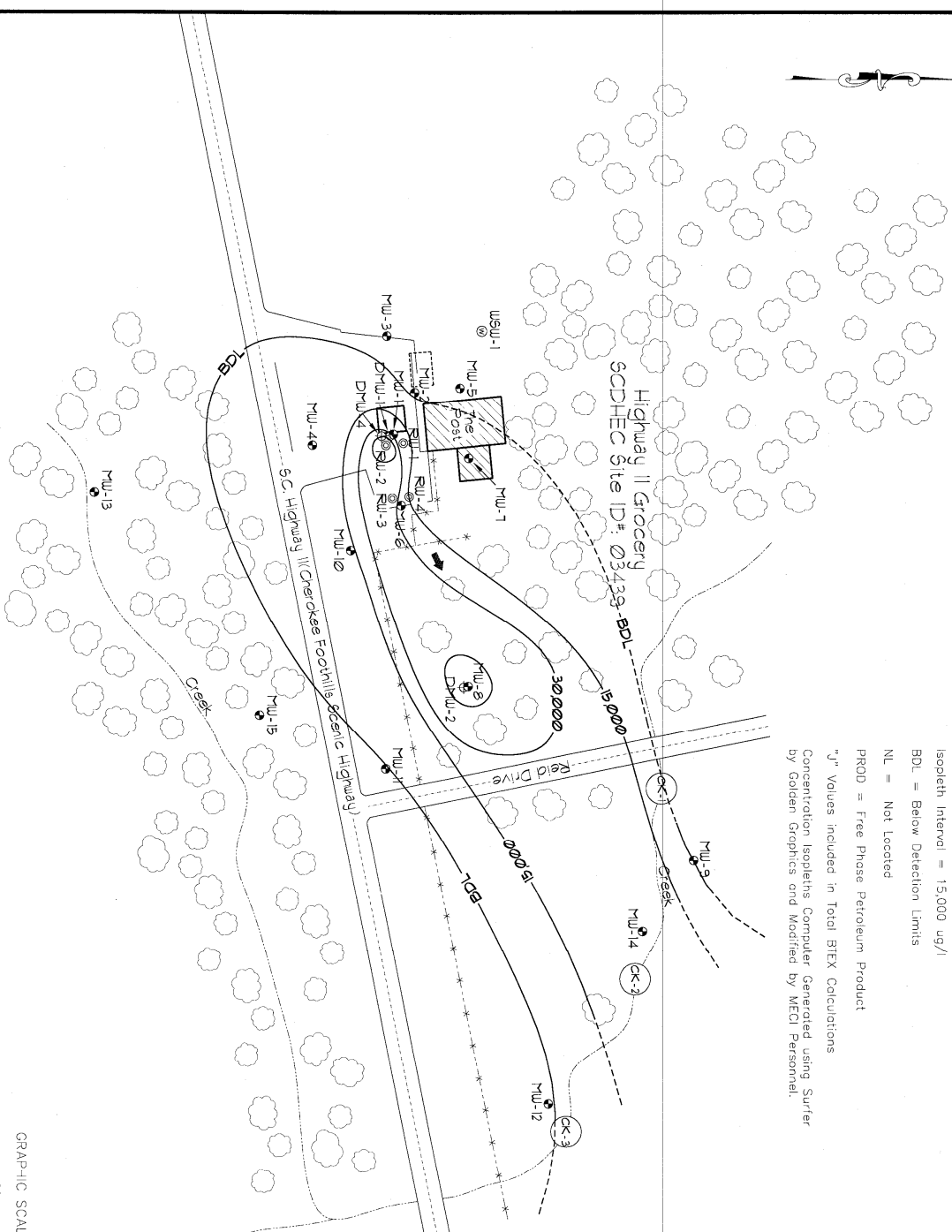
Midlands Environmental Consultants, Inc.

DATE	16-2008
FIGURE	3

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Notes:
 Groundwater samples collected on December 13, 2010.
 Isolepleth Interval = 15,000 ug/l
 BDL = Below Detection Limits
 NL = Not Located
 PROD = Free Phase Petroleum Product
 * Values included in Total BTEX Calculations
 Concentration Isolepleths Computer Generated using SurfEr
 by Golden Graphics and Modified by MECI Personnel.



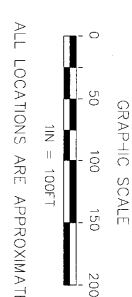
Explanation:

- Location of Water Table
- ⊙ Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊗ Location of 4-inch Recovery Well
- ⊙ Location of Water Supply Well
- ⬇ Estimated Groundwater Flow Direction
- ⊙ Estimated Location of Removed Underground Storage Tanks
- ⊙ Location of Surface Water Collection

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)
MW-1	4,530	8,750	1,150	6,430	20,860	30,400	529	<250
MW-2	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
MW-3	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
MW-4	520	224	55.2	482	1,281.2	763	18.21	<25.0
MW-5	NL	NL	NL	NL	NL	NL	NL	NL
MW-6	1,300	6,340	360	7,910	15,910	2,500	<250	<250
MW-7	NL	NL	NL	NL	NL	NL	NL	NL
MW-8	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
MW-10	50.0	8.6	5.2	114.9	22.9	<5.0	<5.0	<5.0
MW-11	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
MW-12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
MW-13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
MW-14	1,410	4,840	1,490	8,450	16,190	1,500	359	<250
MW-15	NL	NL	NL	NL	NL	NL	NL	NL
DMW-1	3.00	3.60	<5.0	3.10	9.72	104	<5.0	<5.0
DMW-2	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
DMW-3	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0
DMW-4	3,550	13,500	1,190	6,220	24,460	24,500	874	1,125
RW-1	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-2	4,860	20,800	3,240	17,500	46,400	10,200	1,290	<250
RW-3	2,990	6,720	467	4,020	13,597	7,780	189	<5.0
RW-4	4.4	6.2	2.1	9.3	22.0	5.4	<5.0	<5.0
CK-1	16.1	35.6	6.8	34.2	92.7	23.2	6.8	<5.0
CK-2	17.9	39.1	8.1	41.9	107.0	28.1	3.71	<5.0
CKM-31	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



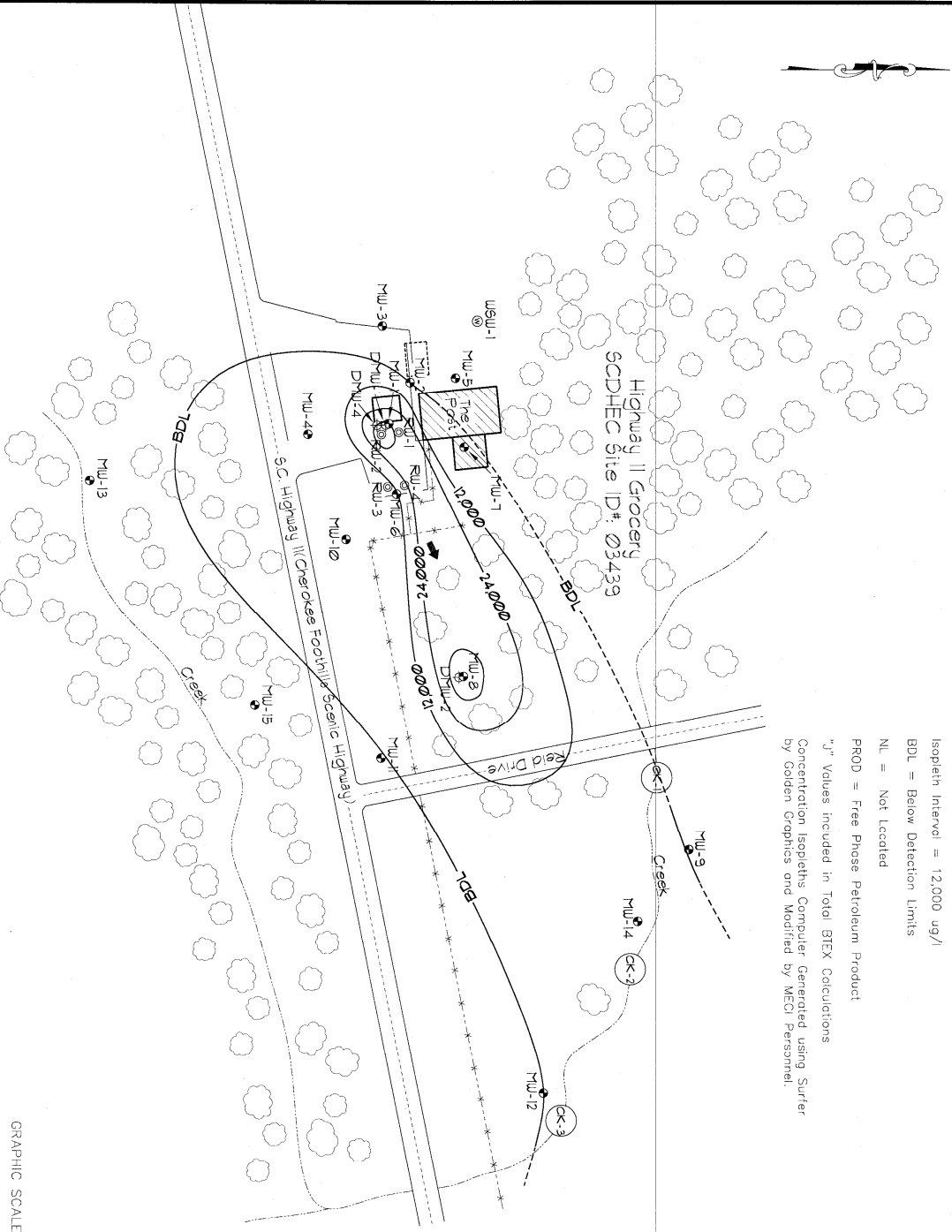
Total BTEX Isolepleth Map

Highway II Grocery
 Salem South Carolina
 SCDHEC Site ID 03459

Midlands Environmental Consultants, Inc.

JOB NO. 10-0090	
DATE January 5, 2010	
FIGURE	4

Notes:
 Groundwater samples collected on December 13, 2010.
 Isopleth Interval = 12,000 ug/l
 BDL = Below Detection Limits
 NL = Not Located
 PROD = Free Phase Petroleum Product
 "T" Values included in Total BTEX Calculations
 Concentration Isopleths Computer Generated using Surrfer
 by Golden Graphics and Modified by MECI Personnel.



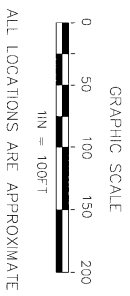
Explanation:

- Location of Water Table
- ⊕ Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Recovery Well
- ⊙ Location of Water Supply Well
- ⊙ Estimated Groundwater Flow Direction
- ⊙ Estimated Location of Removed Underground Storage Tanks
- ⊙ Location of Surface Water Sample Collection

MTBE Concentration (isopleth (ug/l))

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2-DCP (ug/l)
MW-1	4,530	8,750	1,150	6,430	20,860	30,400	529	<250
MW-2	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
MW-3	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
MW-4	520	224	55.2	482	1,281.2	763	18.21	<25.0
MW-5	NL	NL	NL	NL	NL	NL	NL	<25.0
MW-6	1,300	6,340	360	7,910	15,910	2,500	<25.0	<25.0
MW-7	NL	NL	NL	NL	NL	NL	NL	<25.0
MW-8	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
MW-10	50.0	8.0	5.2	51.7	114.9	22.9	<5.0	<5.0
MW-11	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
MW-12	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
MW-13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
MW-14	1,410	4,840	1,490	8,450	16,190	1,500	359	<25.0
MW-15	NL	NL	NL	NL	NL	NL	NL	<25.0
DMW-1	3.0	3.6	<5.0	3.1	9.71	104	<5.0	<5.0
DMW-2	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
DMW-4	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
RW-1	3,350	13,500	1,190	6,220	24,460	24,500	874	<125
RW-2	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-3	4,860	20,800	3,240	17,500	46,400	10,200	1,290	<250
RW-4	2,390	6,720	467	13,997	7,780	169	<5.0	<5.0
OK-1	4.4	6.2	2.1	9.3	22.0	5.4	<5.0	<5.0
OK-2	16.1	35.6	6.8	34.2	92.7	23.2	6.8	<5.0
OK-3	17.9	39.1	8.1	41.9	107.0	28.1	3.71	<5.0
WSW-31	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.







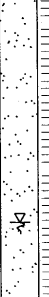



MTBE Isopleth Map

Highway II Grocery
 Salem, South Carolina
 SCDHEC Site ID 03439

Midlands Environmental Consultants, Inc.

DATE NO. 10-2099
 DATE January 5, 2010
 FIGURE 5

TEST BORING AND MONITORING WELL INSTALLATION RECORD

Depth (Feet)	Description	OVA PPM	Well Diagram	Penetration Blows Per Foot																
				0	5	10	20	40	60	80	100									
0	Asphalt with Stone Base																			
5	Piedmont Residuum: Brown, Micaceous Silty Fine to Medium SAND																			
5	Tan and Grey, Micaceous Silty Fine to Medium SAND	2.5																		
10		44.4																		
15		1,206																		
20	Partially Weathered Rock: Sampled as Grey, Micaceous Silty Fine to Medium SAND with Lithic Rock Fragments	1,183																		
25		553.3																		
30	ROCK: Possible Hornblende Gneiss	105.7																		
30	Boring Terminated at 30.0 Feet BGS (Below Ground Surface). Recovery Well Installed to 30.0 Feet BGS. Groundwater Measured at 26.65 Feet Below Top of Casing on 12/13/10.																			
35																				

NO BLOWCOUNTS RECORDED

TEST BORING RECORD
 Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID* 03439
 MECI Project Number 10-3090

Boring Number:	RW-1
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
 Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29073
 (803) 208-2043 Fax: 808-2048

Depth (Feet)	Description	OVA PPM	Well Diagram	Penetration Blows Per Foot																
				0	5	10	20	40	60	80	100									
0	Asphalt with Stone Base																			
5	Piedmont Residuum: Orange and Tan, Micaceous Silty Fine to Medium SAND																			
13.7	Orange, Micaceous Silty Fine to Medium SAND																			
11.8																				
15																				
20	Partially Weathered Rock: Sampled as Grey, Micaceous Silty Fine to Medium SAND with Lithic Rock Fragments																			
840.6																				
25																				
1,499																				
30	ROCK: Possible Hornblende Gneiss																			
228.0																				
30.0	Boring Terminated at 30.0 Feet BGS (Below Ground Surface). Recovery Well Installed to 30.0 Feet BGS. Free Phase Petroleum Product Measured at 26.63 Below Top of Casing and Groundwater Measured at 26.65 Feet Below Top of Casing on 12/13/10.																			
35																				

TEST BORING RECORD
 Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID* 03439
 MECI Project Number 10-3090

Boring Number:	RW-2
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 235-B Doolley Road
 Lexington, South Carolina 29013
 (803) 808-2043 fax: 803-2048

Depth (Feet)	Description	OVA PPM	Well Diagram	Penetration Blows Per Foot															
				0	5	10	20	40	60	80	100								
0	Asphalt with Stone Base																		
5	Piedmont Residium: Orange, Micaceous Fine to Medium Sandy SILT																		
5	Orange and Tan, Micaceous Silty Fine to Medium SAND	2.1																	
10	Tan, Micaceous Silty Fine to Medium SAND	1.6																	
15		1.7																	
20	Tan, Micaceous Fine to Medium SAND	9.4																	
25	Tan, Micaceous Fine to Medium SAND with Lithic Rock Fragments	508.1																	
30	Boring Terminated at 30.0 Feet BGS (Below Ground Surface). Recovery Well Installed to 30.0 Feet BGS. Groundwater Measured at 23.68 Feet Below Top of Casing on 12/13/10.	1,877																	
35																			

NO BLOWCOUNTS RECORDED

TEST BORING RECORD
 Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID# 03439
 MECI Project Number 10-3090

Boring Number:	RW-3
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29073
 (803) 208-2043 fax: 803-2048

Depth (Feet)	Description	OVA PPM	Well Diagram		Penetration Blows Per Foot							
			0	5 10	20	40	60	80	100			
	Asphalt with Stone Base											
	Piedmont Residuum: Orange, Micaceous Silty Fine to Medium SAND											
5		12.8										NO BLOWCOUNTS RECORDED
	Brown, Micaceous Silty Fine to Medium SAND											
10		5.4										
15		7.1										
	Brown, Micaceous Silty Fine to Medium SAND with Lithic Rock Fragments											
20		44.7										
25		69.3										
	Partially Weathered Rock: Sampled as Grey, Micaceous Silty Fine to Medium SAND with Lithic Rock Fragments											
30		6.3										
	Rock: Possible Hornblende Gneiss											
	Boring Terminated at 30.0 Feet BGS (Below Ground Surface). Recovery Well Installed to 30.0 Feet BGS. Groundwater Measured at 24.34 Feet Below Top of Casing on 12/13/10.											
35												

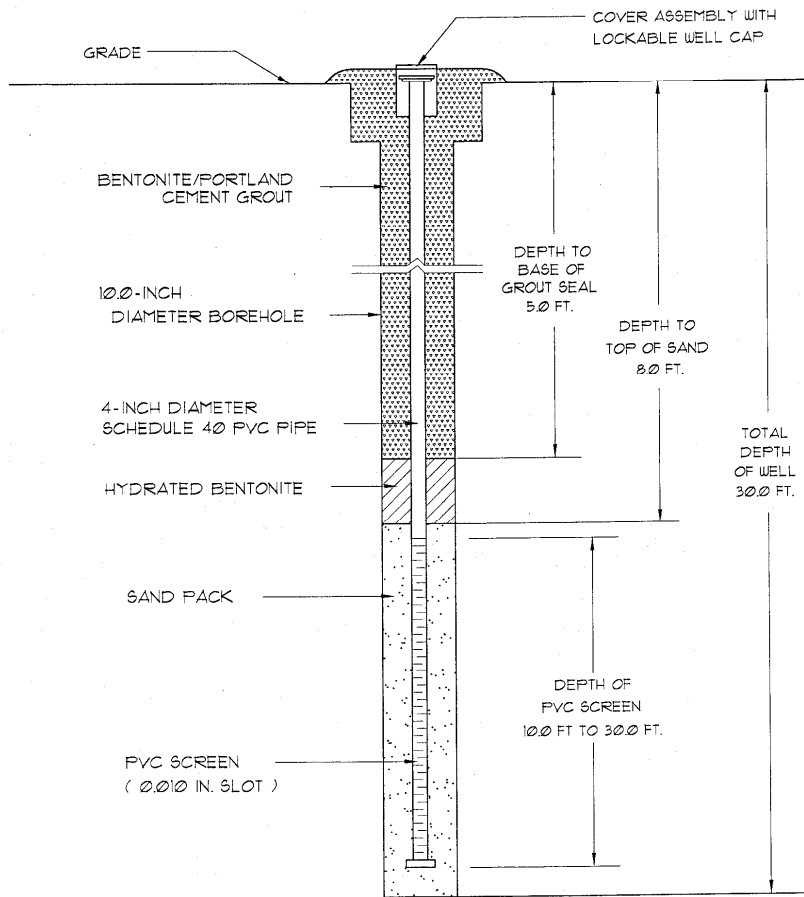
TEST BORING RECORD
 Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID# 03439
 MECI Project Number 10-3090

Boring Number:	RW-4
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29013
 (803) 808-2043 Fax: 808-2048

RECOVERY WELL INSTALLATION RECORD

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID# 03439
 MECI Project Number 10-3090

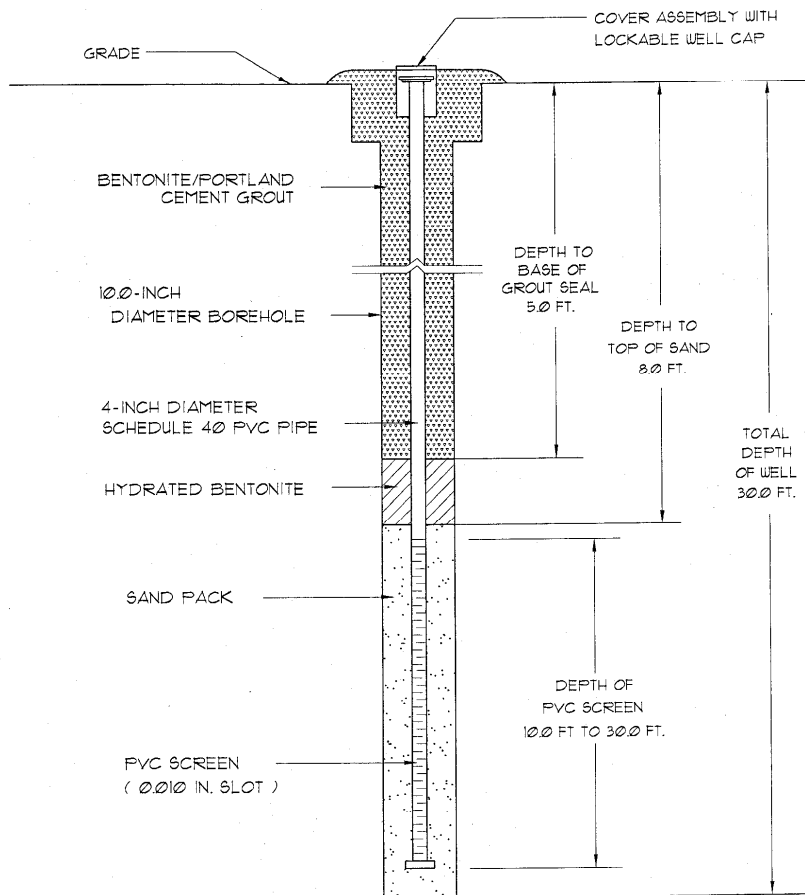


Well Number:	RW-1
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01919
Logged By:	B. Kelly

Prepared By:
Midlands
Environmental
 Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29073
 (803) 808-1043 Fax: 800-2048

RECOVERY WELL INSTALLATION RECORD

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID# 03439
 MECI Project Number 10-3090



Well Number:	RW-2
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

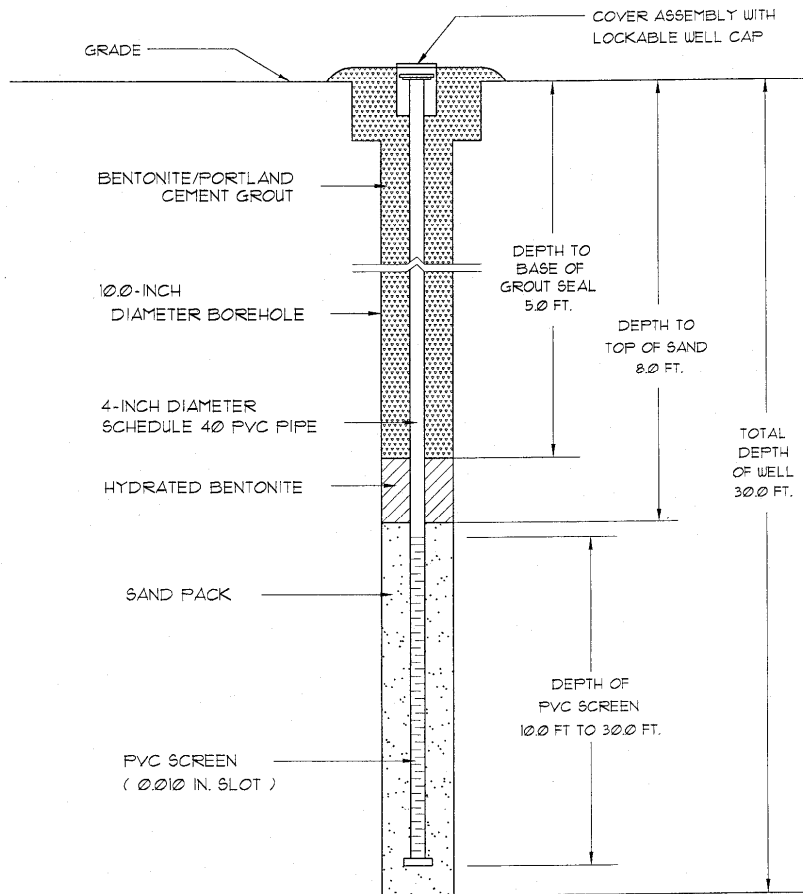
Prepared By:

Midlands
Environmental
 Consultants, Inc.

235-B Dooley Road
 Lexington, South Carolina, 29019
 (803) 208-7043 fax: 803-2048

RECOVERY WELL INSTALLATION RECORD

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID# 03439
 MECI Project Number 10-3090

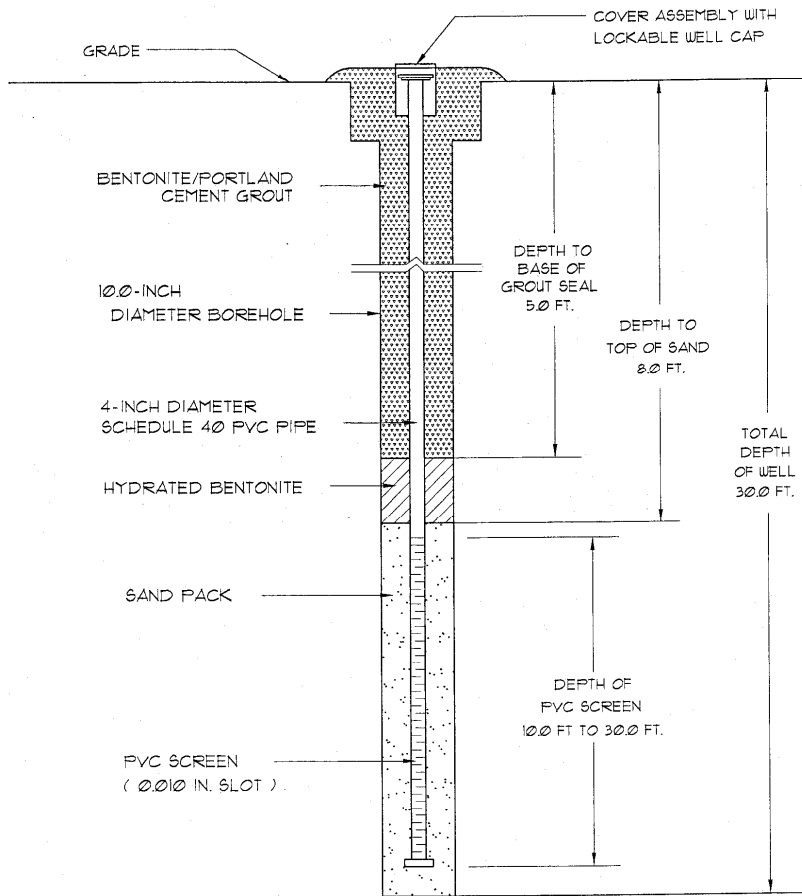


Well Number:	RW-3
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29013
 (803) 208-1043 fax: 808-1048

RECOVERY WELL INSTALLATION RECORD

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID# 03439
 MECI Project Number 10-3090



Well Number:	RW-4
Date Drilled:	12/9/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29075
 (803) 808-1043 Fax: 808-1048



Water Well Record
Bureau of Water
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
 Name: HINKLE, LARRY (last) (first)
 Address: 102 QUARTER MILE ROAD
 City: CHESTERFIELD State: SC Zip: 29709
 Telephone: Work: Home:

7. PERMIT NUMBER: 03439

2. LOCATION OF WELL: SC COUNTY: OCONEE
 Name: HIGHWAY 11 GORCERY
 Street Address: 13527 CHEROKEE FOOTHILLS
 City: SALEM Zip: 29676
 Latitude: Longitude:

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

9. WELL DEPTH (completed) Date Started: 12/09/10
 30.0 ft. Date Completed: 12/09/10

10. CASING: Threaded Welded
 Diam.: 4 INCH
 Type: PVC Galvanized Steel Other
 4.0 in. to 10.0 ft. depth
 Height: Above Below
 Surface 0.0 ft.
 Weight _____ lb./ft.
 Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

11. SCREEN:
 Type: SCH 40 PVC Diam.: 4 INCH
 Slot/Gauge: .010 Length: 20.0 FEET
 Set Between: 10.0 ft. and 30.0 ft. NOTE: MULTIPLE SCREENS
 _____ ft. and _____ ft. USE SECOND SHEET
 Sieve Analysis Yes (please enclose) No

4. ABANDONMENT: Yes No
 Grouted Depth: from _____ ft. to _____ ft.

12. STATIC WATER LEVEL 25.0 ft. below land surface after 24 hours

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SANDY SILT	21.0	21.0
PARTIALLY WEATHERED ROCK	8.0	29.0
ROCK	1.0	30.0

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 (filler pack) Yes No
 Installed from 8.0 ft. to 30.0 ft.
 Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUDED? Yes No
 Neat Cement Bentonite Bentonite/Cement Other _____
 Depth: From 0.0 ft. to 5.0 ft.

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

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

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

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
 Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
 STATESVILLE, NC 28625

5. REMARKS:
 RW-4 BENTONITE SEAL FROM 5.0 TO 8.0 FT.

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: *Jerry Watkins* Date: 12/17/10
 Well Driller

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

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



Water Well Record
Bureau of Water
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
 Name: HINKLE, LARRY (last) (first)
 Address: 102 QUARTER MILE ROAD
 City: CHESTERFIELD State: SC Zip: 29709
 Telephone: Work: Home:

7. PERMIT NUMBER: 03439

2. LOCATION OF WELL: SC COUNTY: OCONEE
 Name: HIGHWAY 11 GROCERY
 Street Address: 13527 CHEROKEE FOOTHILLS HWY
 City: SALEM Zip: 29676
 Latitude: Longitude:

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

9. WELL DEPTH (completed) Date Started: 12/01/10
 20.0 ft. Date Completed: 12/01/10

10. CASING: Threaded Welded
 Diam.: 2 INCH
 Type: PVC Galvanized Steel Other
 _____ in. to _____ ft. depth
 _____ in. to _____ ft. depth
 Height: Above Below
 Surface _____ ft.
 Weight _____ lb./ft.
 Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

4. ABANDONMENT: Yes No

Grouted Depth: from 0.0 ft. to 20.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TAN SAND	20.0	20.0
AUGER REFUSAL @ 20.0 FT		

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 (filler pack) Yes No
 Installed from _____ ft. to _____ ft.
 Effective size _____ Uniformity Coefficient _____

SOIL BORING ABANDONED BY

16. WELL GROUTED? Yes No
 Neat Cement Bentonite Bentonite/Cement Other _____
 Depth: From _____ ft. to _____ ft.

GEOLOGIC EXPLORATION, INC

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

ON 12/01/10 VIA TREMIE PIPE

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: BRIAN CORNELL CERT. NO.: 01299
 Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
 STATESVILLE, NC 28625
 Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed:  Date: 12/06/10
 Well Driller

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

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

5. REMARKS:
 SB-1
 SOIL BORING

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

ANALYTICAL RESULTS



Pace Analytical Services, Inc.
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(704)875-9092

December 21, 2010

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

RE: Project: HWY 11 GROCERY 10-3090
Pace Project No.: 9284163

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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CERTIFICATIONS

Project: HWY 11 GROCERY 10-3090
Pace Project No.: 9284163

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: HWY 11 GROCERY 10-3090
Pace Project No.: 9284163

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9284163001	MW-1	Water	12/13/10 13:20	12/15/10 15:15
9284163002	MW-2	Water	12/13/10 14:40	12/15/10 15:15
9284163003	MW-3	Water	12/13/10 14:50	12/15/10 15:15
9284163004	MW-4	Water	12/13/10 15:00	12/15/10 15:15
9284163005	MW-6	Water	12/13/10 14:10	12/15/10 15:15
9284163006	MW-9	Water	12/13/10 11:55	12/15/10 15:15
9284163007	MW-10	Water	12/13/10 14:25	12/15/10 15:15
9284163008	MW-11	Water	12/13/10 12:35	12/15/10 15:15
9284163009	MW-12	Water	12/13/10 11:40	12/15/10 15:15
9284163010	MW-13	Water	12/13/10 15:30	12/15/10 15:15
9284163011	MW-14	Water	12/13/10 11:50	12/15/10 15:15
9284163012	DMW-1	Water	12/13/10 13:50	12/15/10 15:15
9284163013	DMW-2	Water	12/13/10 12:30	12/15/10 15:15
9284163014	DMW-4	Water	12/13/10 13:25	12/15/10 15:15
9284163015	RW-1	Water	12/13/10 13:00	12/15/10 15:15
9284163016	RW-3	Water	12/13/10 14:05	12/15/10 15:15
9284163017	RW-4	Water	12/13/10 14:10	12/15/10 15:15
9284163018	CK-1	Water	12/13/10 11:00	12/15/10 15:15
9284163019	CK-2	Water	12/13/10 11:10	12/15/10 15:15
9284163020	CK-3	Water	12/13/10 11:20	12/15/10 15:15
9284163021	WSW-1	Water	12/13/10 14:50	12/15/10 15:15

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SAMPLE ANALYTE COUNT

Project: HWY 11 GROCERY 10-3090
Pace Project No.: 9284163

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9284163001	MW-1	EPA 8260	KJM	21
9284163002	MW-2	EPA 8260	KJM	21
9284163003	MW-3	EPA 8260	KJM	21
9284163004	MW-4	EPA 8260	KJM	21
9284163005	MW-6	EPA 8260	KJM	21
9284163006	MW-9	EPA 8260	KJM	21
9284163007	MW-10	EPA 8260	KJM	21
9284163008	MW-11	EPA 8260	KJM	21
9284163009	MW-12	EPA 8260	KJM	21
9284163010	MW-13	EPA 8260	KJM	21
9284163011	MW-14	EPA 8260	KJM	21
9284163012	DMW-1	EPA 8260	KJM	21
9284163013	DMW-2	EPA 8260	KJM	21
9284163014	DMW-4	EPA 8260	KJM	21
9284163015	RW-1	EPA 8260	KJM	21
9284163016	RW-3	EPA 8260	KJM	21
9284163017	RW-4	EPA 8260	KJM	21
9284163018	CK-1	EPA 8260	KJM	21
9284163019	CK-2	EPA 8260	KJM	21
9284163020	CK-3	EPA 8260	KJM	21
9284163021	WSW-1	EPA 8260	KJM	21

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: MW-1 Lab ID: 9284163001 Collected: 12/13/10 13:20 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	3430J	ug/L	5000	3100	50		12/19/10 12:25	75-85-4	
tert-Amylmethyl ether	735	ug/L	500	225	50		12/19/10 12:25	994-05-8	
Benzene	4530	ug/L	250	60.0	50		12/19/10 12:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		12/19/10 12:25	624-95-3	
tert-Butyl Alcohol	1600J	ug/L	5000	1350	50		12/19/10 12:25	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		12/19/10 12:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		12/19/10 12:25	107-06-2	
Diisopropyl ether	449	ug/L	250	135	50		12/19/10 12:25	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		12/19/10 12:25	64-17-5	
Ethylbenzene	1150	ug/L	250	55.0	50		12/19/10 12:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		12/19/10 12:25	637-92-3	
Methyl-tert-butyl ether	30400	ug/L	2500	1000	500		12/20/10 17:51	1634-04-4	
Naphthalene	529	ug/L	250	145	50		12/19/10 12:25	91-20-3	
Toluene	8750	ug/L	2500	900	500		12/20/10 17:51	108-88-3	
Xylene (Total)	6430	ug/L	500	135	50		12/19/10 12:25	1330-20-7	
m&p-Xylene	4420	ug/L	500	135	50		12/19/10 12:25	179601-23-1	
o-Xylene	2010	ug/L	250	85.0	50		12/19/10 12:25	95-47-6	
Dibromofluoromethane (S)	102 %		70-130		50		12/19/10 12:25	1868-53-7	
Toluene-d8 (S)	98 %		70-130		50		12/19/10 12:25	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130		50		12/19/10 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-130		50		12/19/10 12:25	17060-07-0	

Sample: MW-2 Lab ID: 9284163002 Collected: 12/13/10 14:40 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 04:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 04:27	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 04:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 04:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 04:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 04:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 04:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 04:27	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 04:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 04:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 04:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 04:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 04:27	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 04:27	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 04:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 04:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 04:27	95-47-6	

Date: 12/21/2010 05:08 PM

REPORT OF LABORATORY ANALYSIS

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 (704)875-9092

ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: **MW-2** Lab ID: **9284163002** Collected: 12/13/10 14:40 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
Dibromofluoromethane (S)	103 %		70-130		1		12/19/10 04:27	1868-53-7	
Toluene-d8 (S)	89 %		70-130		1		12/19/10 04:27	2037-26-5	
4-Bromofluorobenzene (S)	93 %		70-130		1		12/19/10 04:27	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-130		1		12/19/10 04:27	17060-07-0	

Sample: **MW-3** Lab ID: **9284163003** Collected: 12/13/10 14:50 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 04:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 04:45	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 04:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 04:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 04:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 04:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 04:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 04:45	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 04:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 04:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 04:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 04:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 04:45	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 04:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 04:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 04:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 04:45	95-47-6	
Dibromofluoromethane (S)	102 %		70-130		1		12/19/10 04:45	1868-53-7	
Toluene-d8 (S)	82 %		70-130		1		12/19/10 04:45	2037-26-5	
4-Bromofluorobenzene (S)	93 %		70-130		1		12/19/10 04:45	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-130		1		12/19/10 04:45	17060-07-0	

Sample: **MW-4** Lab ID: **9284163004** Collected: 12/13/10 15:00 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	342J	ug/L	500	310	5		12/19/10 09:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	22.5	5		12/19/10 09:21	994-05-8	
Benzene	520	ug/L	25.0	6.0	5		12/19/10 09:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		12/19/10 09:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	135	5		12/19/10 09:21	75-65-0	

Date: 12/21/2010 05:08 PM

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 Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: MW-4 Lab ID: 9284163004 Collected: 12/13/10 15:00 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Butyl Formate	ND	ug/L	250	45.0	5		12/19/10 09:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		12/19/10 09:21	107-06-2	
Diisopropyl ether	25.3	ug/L	25.0	13.5	5		12/19/10 09:21	108-20-3	
Ethanol	ND	ug/L	1000	850	5		12/19/10 09:21	64-17-5	
Ethylbenzene	55.2	ug/L	25.0	5.5	5		12/19/10 09:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		12/19/10 09:21	637-92-3	
Methyl-tert-butyl ether	763	ug/L	25.0	10.0	5		12/19/10 09:21	1634-04-4	
Naphthalene	18.2J	ug/L	25.0	14.5	5		12/19/10 09:21	91-20-3	
Toluene	224	ug/L	25.0	9.0	5		12/19/10 09:21	108-88-3	
Xylene (Total)	482	ug/L	50.0	13.5	5		12/19/10 09:21	1330-20-7	
m&p-Xylene	281	ug/L	50.0	13.5	5		12/19/10 09:21	179601-23-1	
o-Xylene	200	ug/L	25.0	8.5	5		12/19/10 09:21	95-47-6	
Dibromofluoromethane (S)	103 %		70-130		5		12/19/10 09:21	1868-53-7	
Toluene-d8 (S)	100 %		70-130		5		12/19/10 09:21	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130		5		12/19/10 09:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-130		5		12/19/10 09:21	17060-07-0	

Sample: MW-6 Lab ID: 9284163005 Collected: 12/13/10 14:10 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	5000	3100	50		12/20/10 16:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	225	50		12/20/10 16:19	994-05-8	
Benzene	1300	ug/L	250	60.0	50		12/20/10 16:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		12/20/10 16:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1350	50		12/20/10 16:19	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		12/20/10 16:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		12/20/10 16:19	107-06-2	
Diisopropyl ether	ND	ug/L	250	135	50		12/20/10 16:19	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		12/20/10 16:19	64-17-5	
Ethylbenzene	360	ug/L	250	55.0	50		12/20/10 16:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		12/20/10 16:19	637-92-3	
Methyl-tert-butyl ether	2500	ug/L	250	100	50		12/20/10 16:19	1634-04-4	
Naphthalene	ND	ug/L	250	145	50		12/20/10 16:19	91-20-3	
Toluene	6340	ug/L	250	90.0	50		12/20/10 16:19	108-88-3	
Xylene (Total)	7910	ug/L	500	135	50		12/20/10 16:19	1330-20-7	
m&p-Xylene	5400	ug/L	500	135	50		12/20/10 16:19	179601-23-1	
o-Xylene	2510	ug/L	250	85.0	50		12/20/10 16:19	95-47-6	
Dibromofluoromethane (S)	100 %		70-130		50		12/20/10 16:19	1868-53-7	
Toluene-d8 (S)	100 %		70-130		50		12/20/10 16:19	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130		50		12/20/10 16:19	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-130		50		12/20/10 16:19	17060-07-0	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: **MW-9** Lab ID: **9284163006** Collected: 12/13/10 11:55 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 05:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 05:04	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 05:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 05:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 05:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 05:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 05:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 05:04	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 05:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 05:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 05:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 05:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 05:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 05:04	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 05:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 05:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 05:04	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		12/19/10 05:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/19/10 05:04	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/19/10 05:04	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/19/10 05:04	17060-07-0	

Sample: **MW-10** Lab ID: **9284163007** Collected: 12/13/10 14:25 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 05:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 05:22	994-05-8	
Benzene	50.0	ug/L	5.0	1.2	1		12/19/10 05:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 05:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 05:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 05:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 05:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 05:22	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 05:22	64-17-5	
Ethylbenzene	5.2	ug/L	5.0	1.1	1		12/19/10 05:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 05:22	637-92-3	
Methyl-tert-butyl ether	22.9	ug/L	5.0	2.0	1		12/19/10 05:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 05:22	91-20-3	
Toluene	8.0	ug/L	5.0	1.8	1		12/19/10 05:22	108-88-3	
Xylene (Total)	51.7	ug/L	10.0	2.7	1		12/19/10 05:22	1330-20-7	
m&p-Xylene	21.7	ug/L	10.0	2.7	1		12/19/10 05:22	179601-23-1	
o-Xylene	30.0	ug/L	5.0	1.7	1		12/19/10 05:22	95-47-6	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: **MW-10** Lab ID: **9284163007** Collected: 12/13/10 14:25 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
Dibromofluoromethane (S)	101 %		70-130		1		12/19/10 05:22	1868-53-7	
Toluene-d8 (S)	98 %		70-130		1		12/19/10 05:22	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-130		1		12/19/10 05:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-130		1		12/19/10 05:22	17060-07-0	

Sample: **MW-11** Lab ID: **9284163008** Collected: 12/13/10 12:35 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 05:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 05:40	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 05:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 05:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 05:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 05:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 05:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 05:40	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 05:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 05:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 05:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 05:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 05:40	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 05:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 05:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 05:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 05:40	95-47-6	
Dibromofluoromethane (S)	101 %		70-130		1		12/19/10 05:40	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		12/19/10 05:40	2037-26-5	
4-Bromofluorobenzene (S)	95 %		70-130		1		12/19/10 05:40	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-130		1		12/19/10 05:40	17060-07-0	

Sample: **MW-12** Lab ID: **9284163009** Collected: 12/13/10 11:40 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 05:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 05:59	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 05:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 05:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 05:59	75-65-0	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: MW-12 Lab ID: 9284163009 Collected: 12/13/10 11:40 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 05:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 05:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 05:59	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 05:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 05:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 05:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 05:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 05:59	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 05:59	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 05:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 05:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 05:59	95-47-6	
Dibromofluoromethane (S)	102 %		70-130		1		12/19/10 05:59	1868-53-7	
Toluene-d8 (S)	96 %		70-130		1		12/19/10 05:59	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130		1		12/19/10 05:59	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		70-130		1		12/19/10 05:59	17060-07-0	

Sample: MW-13 Lab ID: 9284163010 Collected: 12/13/10 15:30 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 06:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 06:17	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 06:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 06:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 06:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 06:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 06:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 06:17	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 06:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 06:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 06:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 06:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 06:17	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 06:17	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 06:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 06:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 06:17	95-47-6	
Dibromofluoromethane (S)	101 %		70-130		1		12/19/10 06:17	1868-53-7	
Toluene d8 (S)	94 %		70-130		1		12/19/10 06:17	2037-26-5	
4-Bromofluorobenzene (S)	96 %		70-130		1		12/19/10 06:17	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		70-130		1		12/19/10 06:17	17060-07-0	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
Pace Project No.: 9284163

Sample: MW-14 Lab ID: 9284163011 Collected: 12/13/10 11:50 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	5000	3100	50		12/19/10 09:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	225	50		12/19/10 09:58	994-05-8	
Benzene	1410	ug/L	250	60.0	50		12/19/10 09:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		12/19/10 09:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1350	50		12/19/10 09:58	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		12/19/10 09:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		12/19/10 09:58	107-06-2	
Diisopropyl ether	ND	ug/L	250	135	50		12/19/10 09:58	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		12/19/10 09:58	64-17-5	
Ethylbenzene	1490	ug/L	250	55.0	50		12/19/10 09:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		12/19/10 09:58	637-92-3	
Methyl-tert-butyl ether	1500	ug/L	250	100	50		12/19/10 09:58	1634-04-4	
Naphthalene	359	ug/L	250	145	50		12/19/10 09:58	91-20-3	
Toluene	4840	ug/L	250	90.0	50		12/19/10 09:58	108-88-3	
Xylene (Total)	8450	ug/L	500	135	50		12/19/10 09:58	1330-20-7	
m&p-Xylene	5790	ug/L	500	135	50		12/19/10 09:58	179601-23-1	
o-Xylene	2660	ug/L	250	85.0	50		12/19/10 09:58	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		50		12/19/10 09:58	1868-53-7	
Toluene-d8 (S)	99	%	70-130		50		12/19/10 09:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		50		12/19/10 09:58	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		50		12/19/10 09:58	17060-07-0	

Sample: DMW-1 Lab ID: 9284163012 Collected: 12/13/10 13:50 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 06:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 06:35	994-05-8	
Benzene	3.0J	ug/L	5.0	1.2	1		12/19/10 06:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 06:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 06:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 06:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 06:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 06:35	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 06:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 06:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 06:35	637-92-3	
Methyl-tert-butyl ether	104	ug/L	5.0	2.0	1		12/19/10 06:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 06:35	91-20-3	
Toluene	3.6J	ug/L	5.0	1.8	1		12/19/10 06:35	108-88-3	
Xylene (Total)	3.1J	ug/L	10.0	2.7	1		12/19/10 06:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 06:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 06:35	95-47-6	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: DMW-1 Lab ID: 9284163012 Collected: 12/13/10 13:50 Received: 12/15/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
Dibromofluoromethane (S)	102 %		70-130		1		12/19/10 06:35	1868-53-7	
Toluene-d8 (S)	98 %		70-130		1		12/19/10 06:35	2037-26-5	
4-Bromofluorobenzene (S)	96 %		70-130		1		12/19/10 06:35	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		70-130		1		12/19/10 06:35	17060-07-0	

Sample: DMW-2 Lab ID: 9284163013 Collected: 12/13/10 12:30 Received: 12/15/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND ug/L		100	62.0	1		12/19/10 06:54	75-85-4	
tert-Amylmethyl ether	ND ug/L		10.0	4.5	1		12/19/10 06:54	994-05-8	
Benzene	ND ug/L		5.0	1.2	1		12/19/10 06:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L		100	48.0	1		12/19/10 06:54	624-95-3	
tert-Butyl Alcohol	ND ug/L		100	27.0	1		12/19/10 06:54	75-65-0	
tert-Butyl Formate	ND ug/L		50.0	9.0	1		12/19/10 06:54	762-75-4	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		12/19/10 06:54	107-06-2	
Diisopropyl ether	ND ug/L		5.0	2.7	1		12/19/10 06:54	108-20-3	
Ethanol	ND ug/L		200	170	1		12/19/10 06:54	64-17-5	
Ethylbenzene	ND ug/L		5.0	1.1	1		12/19/10 06:54	100-41-4	
Ethyl-tert-butyl ether	ND ug/L		10.0	4.6	1		12/19/10 06:54	637-92-3	
Methyl-tert-butyl ether	ND ug/L		5.0	2.0	1		12/19/10 06:54	1634-04-4	
Naphthalene	ND ug/L		5.0	2.9	1		12/19/10 06:54	91-20-3	
Toluene	ND ug/L		5.0	1.8	1		12/19/10 06:54	108-88-3	
Xylene (Total)	ND ug/L		10.0	2.7	1		12/19/10 06:54	1330-20-7	
m&p-Xylene	ND ug/L		10.0	2.7	1		12/19/10 06:54	179601-23-1	
o-Xylene	ND ug/L		5.0	1.7	1		12/19/10 06:54	95-47-6	
Dibromofluoromethane (S)	104 %		70-130		1		12/19/10 06:54	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		12/19/10 06:54	2037-26-5	
4-Bromofluorobenzene (S)	95 %		70-130		1		12/19/10 06:54	460-00-4	
1,2-Dichloroethane-d4 (S)	112 %		70-130		1		12/19/10 06:54	17060-07-0	

Sample: DMW-4 Lab ID: 9284163014 Collected: 12/13/10 13:25 Received: 12/15/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND ug/L		100	62.0	1		12/19/10 07:12	75-85-4	
tert-Amylmethyl ether	ND ug/L		10.0	4.5	1		12/19/10 07:12	994-05-8	
Benzene	ND ug/L		5.0	1.2	1		12/19/10 07:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L		100	48.0	1		12/19/10 07:12	624-95-3	
tert-Butyl Alcohol	ND ug/L		100	27.0	1		12/19/10 07:12	75-65-0	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: **DMW-4** Lab ID: **9284163014** Collected: 12/13/10 13:25 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 07:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 07:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 07:12	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 07:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 07:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 07:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 07:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 07:12	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 07:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 07:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 07:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 07:12	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		12/19/10 07:12	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/19/10 07:12	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/19/10 07:12	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		12/19/10 07:12	17060-07-0	

Sample: **RW-1** Lab ID: **9284163015** Collected: 12/13/10 13:00 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	3850	ug/L	2500	1550	25		12/19/10 11:48	75-85-4	
tert-Amylmethyl ether	586	ug/L	250	112	25		12/19/10 11:48	994-05-8	
Benzene	3550	ug/L	125	30.0	25		12/19/10 11:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1200	25		12/19/10 11:48	624-95-3	
tert-Butyl Alcohol	5200	ug/L	2500	675	25		12/19/10 11:48	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	225	25		12/19/10 11:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	32.5	25		12/19/10 11:48	107-06-2	
Diisopropyl ether	373	ug/L	125	67.5	25		12/19/10 11:48	108-20-3	
Ethanol	ND	ug/L	5000	4250	25		12/19/10 11:48	64-17-5	
Ethylbenzene	1190	ug/L	125	27.5	25		12/19/10 11:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	115	25		12/19/10 11:48	637-92-3	
Methyl-tert-butyl ether	24500	ug/L	2500	1000	500		12/20/10 17:14	1634-04-4	
Naphthalene	874	ug/L	125	72.5	25		12/19/10 11:48	91-20-3	
Toluene	13500	ug/L	2500	900	500		12/20/10 17:14	108-88-3	
Xylene (Total)	6220	ug/L	250	67.5	25		12/19/10 11:48	1330-20-7	
m&p-Xylene	4220	ug/L	250	67.5	25		12/19/10 11:48	179601-23-1	
o-Xylene	2000	ug/L	125	42.5	25		12/19/10 11:48	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		25		12/19/10 11:48	1868-53-7	
Toluene-d8 (S)	99	%	70-130		25		12/19/10 11:48	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		25		12/19/10 11:48	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		25		12/19/10 11:48	17060-07-0	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: RW-3 Lab ID: 9284163016 Collected: 12/13/10 14:05 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	5000	3100	50		12/19/10 12:06	75-85-4	
tert-Amylmethyl ether	454J	ug/L	500	225	50		12/19/10 12:06	994-05-8	
Benzene	4860	ug/L	250	60.0	50		12/19/10 12:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		12/19/10 12:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1350	50		12/19/10 12:06	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		12/19/10 12:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		12/19/10 12:06	107-06-2	
Diisopropyl ether	284	ug/L	250	135	50		12/19/10 12:06	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		12/19/10 12:06	64-17-5	
Ethylbenzene	3240	ug/L	250	55.0	50		12/19/10 12:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		12/19/10 12:06	637-92-3	
Methyl-tert-butyl ether	10200	ug/L	1250	500	250		12/20/10 17:32	1634-04-4	
Naphthalene	1290	ug/L	250	145	50		12/19/10 12:06	91-20-3	
Toluene	20800	ug/L	1250	450	250		12/20/10 17:32	108-88-3	
Xylene (Total)	17500	ug/L	500	135	50		12/19/10 12:06	1330-20-7	
m&p-Xylene	12100	ug/L	500	135	50		12/19/10 12:06	179601-23-1	
o-Xylene	5400	ug/L	250	85.0	50		12/19/10 12:06	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		50		12/19/10 12:06	1868-53-7	
Toluene-d8 (S)	101	%	70-130		50		12/19/10 12:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		50		12/19/10 12:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		50		12/19/10 12:06	17060-07-0	

Sample: RW-4 Lab ID: 9284163017 Collected: 12/13/10 14:10 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	581	ug/L	100	62.0	1		12/19/10 07:31	75-85-4	
tert-Amylmethyl ether	259	ug/L	10.0	4.5	1		12/19/10 07:31	994-05-8	
Benzene	2390	ug/L	1000	240	200		12/20/10 16:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 07:31	624-95-3	
tert-Butyl Alcohol	764	ug/L	100	27.0	1		12/19/10 07:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 07:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 07:31	107-06-2	
Diisopropyl ether	203	ug/L	5.0	2.7	1		12/19/10 07:31	108-20-3	E
Ethanol	ND	ug/L	200	170	1		12/19/10 07:31	64-17-5	
Ethylbenzene	467	ug/L	5.0	1.1	1		12/19/10 07:31	100-41-4	E
Ethyl-tert-butyl ether	6.1J	ug/L	10.0	4.6	1		12/19/10 07:31	637-92-3	
Methyl-tert-butyl ether	7780	ug/L	1000	400	200		12/20/10 16:56	1634-04-4	
Naphthalene	169	ug/L	5.0	2.9	1		12/19/10 07:31	91-20-3	
Toluene	6720	ug/L	1000	360	200		12/20/10 16:56	108-88-3	
Xylene (Total)	4020	ug/L	2000	540	200		12/20/10 16:56	1330-20-7	
m&p-Xylene	2730	ug/L	2000	540	200		12/20/10 16:56	179601-23-1	
o-Xylene	1290	ug/L	1000	340	200		12/20/10 16:56	95-47-6	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: RW-4		Lab ID: 9284163017	Collected: 12/13/10 14:10	Received: 12/15/10 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
Dibromofluoromethane (S)	97 %		70 130		1		12/19/10 07:31	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		12/19/10 07:31	2037-26-5	
4-Bromofluorobenzene (S)	102 %		70-130		1		12/19/10 07:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-130		1		12/19/10 07:31	17060-07-0	

Sample: CK-1		Lab ID: 9284163018	Collected: 12/13/10 11:00	Received: 12/15/10 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 16:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 16:00	994-05-8	
Benzene	4.4J	ug/L	5.0	1.2	1		12/20/10 16:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 16:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 16:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 16:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/20/10 16:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 16:00	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 16:00	64-17-5	
Ethylbenzene	2.1J	ug/L	5.0	1.1	1		12/20/10 16:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 16:00	637-92-3	
Methyl-tert-butyl ether	5.4	ug/L	5.0	2.0	1		12/20/10 16:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/20/10 16:00	91-20-3	
Toluene	6.2	ug/L	5.0	1.8	1		12/20/10 16:00	108-88-3	
Xylene (Total)	9.3J	ug/L	10.0	2.7	1		12/20/10 16:00	1330-20-7	
m&p-Xylene	6.5J	ug/L	10.0	2.7	1		12/20/10 16:00	179601-23-1	
o-Xylene	2.8J	ug/L	5.0	1.7	1		12/20/10 16:00	95-47-6	
Dibromofluoromethane (S)	104 %		70-130		1		12/20/10 16:00	1868-53-7	
Toluene-d8 (S)	97 %		70-130		1		12/20/10 16:00	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130		1		12/20/10 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		70-130		1		12/20/10 16:00	17060-07-0	

Sample: CK-2		Lab ID: 9284163019	Collected: 12/13/10 11:10	Received: 12/15/10 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 08:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 08:08	994-05-8	
Benzene	16.1	ug/L	5.0	1.2	1		12/19/10 08:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 08:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 08:08	75-65-0	

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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: CK-2 Lab ID: 9284163019 Collected: 12/13/10 11:10 Received: 12/15/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 08:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 08:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 08:08	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 08:08	64-17-5	
Ethylbenzene	6.8	ug/L	5.0	1.1	1		12/19/10 08:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 08:08	637-92-3	
Methyl-tert-butyl ether	23.2	ug/L	5.0	2.0	1		12/19/10 08:08	1634-04-4	
Naphthalene	6.8	ug/L	5.0	2.9	1		12/19/10 08:08	91-20-3	
Toluene	35.6	ug/L	5.0	1.8	1		12/19/10 08:08	108-88-3	
Xylene (Total)	34.2	ug/L	10.0	2.7	1		12/19/10 08:08	1330-20-7	
m&p-Xylene	23.4	ug/L	10.0	2.7	1		12/19/10 08:08	179601-23-1	
o-Xylene	10.8	ug/L	5.0	1.7	1		12/19/10 08:08	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		12/19/10 08:08	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/19/10 08:08	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/19/10 08:08	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/19/10 08:08	17060-07-0	

Sample: CK-3 Lab ID: 9284163020 Collected: 12/13/10 11:20 Received: 12/15/10 15:15 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 08:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 08:26	994-05-8	
Benzene	17.9	ug/L	5.0	1.2	1		12/19/10 08:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 08:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 08:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 08:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 08:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 08:26	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 08:26	64-17-5	
Ethylbenzene	8.1	ug/L	5.0	1.1	1		12/19/10 08:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 08:26	637-92-3	
Methyl-tert-butyl ether	28.1	ug/L	5.0	2.0	1		12/19/10 08:26	1634-04-4	
Naphthalene	3.7J	ug/L	5.0	2.9	1		12/19/10 08:26	91-20-3	
Toluene	39.1	ug/L	5.0	1.8	1		12/19/10 08:26	108-88-3	
Xylene (Total)	41.9	ug/L	10.0	2.7	1		12/19/10 08:26	1330-20-7	
m&p-Xylene	28.7	ug/L	10.0	2.7	1		12/19/10 08:26	179601-23-1	
o-Xylene	13.3	ug/L	5.0	1.7	1		12/19/10 08:26	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		12/19/10 08:26	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/19/10 08:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		12/19/10 08:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/19/10 08:26	17060-07-0	





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ANALYTICAL RESULTS

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

Sample: WSW-1 Lab ID: 9284163021 Collected: 12/13/10 14:50 Received: 12/15/10 15:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/19/10 08:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/19/10 08:44	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/19/10 08:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/19/10 08:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/19/10 08:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/19/10 08:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/19/10 08:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/19/10 08:44	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/19/10 08:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/19/10 08:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/19/10 08:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/19/10 08:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/19/10 08:44	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/19/10 08:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/19/10 08:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/19/10 08:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/19/10 08:44	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		12/19/10 08:44	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/19/10 08:44	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/19/10 08:44	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/19/10 08:44	17060-07-0	

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QUALITY CONTROL DATA

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

QC Batch: MSV13492 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
 Associated Lab Samples: 9284163002, 9284163003, 9284163006, 9284163007, 9284163008, 9284163009, 9284163010

METHOD BLANK: 543175 Matrix: Water
 Associated Lab Samples: 9284163002, 9284163003, 9284163006, 9284163007, 9284163008, 9284163009, 9284163010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/19/10 03:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/19/10 03:50	
Benzene	ug/L	ND	5.0	12/19/10 03:50	
Diisopropyl ether	ug/L	ND	5.0	12/19/10 03:50	
Ethanol	ug/L	ND	200	12/19/10 03:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/19/10 03:50	
Ethylbenzene	ug/L	ND	5.0	12/19/10 03:50	
m&p-Xylene	ug/L	ND	10.0	12/19/10 03:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/19/10 03:50	
Naphthalene	ug/L	ND	5.0	12/19/10 03:50	
o-Xylene	ug/L	ND	5.0	12/19/10 03:50	
tert-Amyl Alcohol	ug/L	ND	100	12/19/10 03:50	
tert-Amylmethyl ether	ug/L	ND	10.0	12/19/10 03:50	
tert-Butyl Alcohol	ug/L	ND	100	12/19/10 03:50	
tert-Butyl Formate	ug/L	ND	50.0	12/19/10 03:50	
Toluene	ug/L	ND	5.0	12/19/10 03:50	
Xylene (Total)	ug/L	ND	10.0	12/19/10 03:50	
1,2-Dichloroethane-d4 (S)	%	103	70-130	12/19/10 03:50	
4-Bromofluorobenzene (S)	%	97	70-130	12/19/10 03:50	
Dibromofluoromethane (S)	%	98	70-130	12/19/10 03:50	
Toluene-d8 (S)	%	99	70-130	12/19/10 03:50	

LABORATORY CONTROL SAMPLE: 543176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.9	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	46.2	92	70-130	
Diisopropyl ether	ug/L	50	46.2	92	70-130	
Ethanol	ug/L	2000	2360	118	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.6	93	70-130	
Ethylbenzene	ug/L	50	45.2	90	70-130	
m&p-Xylene	ug/L	100	89.3	89	70-130	
Methyl-tert-butyl ether	ug/L	50	52.6	105	70-130	
Naphthalene	ug/L	50	56.0	112	70-130	
o-Xylene	ug/L	50	45.0	90	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	92.9	93	70-130	
tert-Butyl Alcohol	ug/L	500	666	133	70-130 L3	
tert-Butyl Formate	ug/L	400	295	74	70-130	
Toluene	ug/L	50	45.8	92	70-130	

Date: 12/21/2010 05:08 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

LABORATORY CONTROL SAMPLE: 543176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	134	90	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543177 543178

Parameter	Units	MS 9284163003		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
1,2-Dichloroethane	ug/L	ND	50	50	40.2	49.7	80	99	70-130	21	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	578	710	58	71	70-130	21	30	M0
Benzene	ug/L	ND	50	50	42.3	50.7	85	101	70-130	18	30	
Diisopropyl ether	ug/L	ND	50	50	41.0	50.4	82	101	70-130	20	30	
Ethanol	ug/L	ND	2000	2000	1340	1930	67	96	70-130	36	30	M0, R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	79.5	98.0	79	98	70-130	21	30	
Ethylbenzene	ug/L	ND	50	50	39.9	48.0	80	96	70-130	18	30	
m&p-Xylene	ug/L	ND	100	100	68.9	84.7	69	85	70-130	21	30	M0
Methyl-tert-butyl ether	ug/L	ND	50	50	43.9	53.7	88	107	70-130	20	30	
Naphthalene	ug/L	ND	50	50	44.0	52.9	88	106	70-130	18	30	
o-Xylene	ug/L	ND	50	50	35.7	43.4	71	87	70-130	19	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	702	868	70	87	70-130	21	30	
tert-Amylmethyl ether	ug/L	ND	100	100	76.6	92.7	77	93	70-130	19	30	
tert-Butyl Alcohol	ug/L	ND	500	500	649	869	130	174	70-130	29	30	M0, R1
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130	30	30	P5
Toluene	ug/L	ND	50	50	38.2	46.7	76	93	70-130	20	30	
1,2-Dichloroethane-d4 (S)	%						101	104	70-130			
4-Bromofluorobenzene (S)	%						96	96	70-130			
Dibromofluoromethane (S)	%						99	101	70-130			
Toluene-d8 (S)	%						95	95	70-130			





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QUALITY CONTROL DATA

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

QC Batch: MSV/13493 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
 Associated Lab Samples: 9284163001, 9284163004, 9284163011, 9284163012, 9284163013, 9284163014, 9284163015, 9284163016, 9284163017, 9284163019, 9284163020, 9284163021

METHOD BLANK: 543179 Matrix: Water
 Associated Lab Samples: 9284163001, 9284163004, 9284163011, 9284163012, 9284163013, 9284163014, 9284163015, 9284163016, 9284163017, 9284163019, 9284163020, 9284163021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/19/10 04:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/19/10 04:08	
Benzene	ug/L	ND	5.0	12/19/10 04:08	
Diisopropyl ether	ug/L	ND	5.0	12/19/10 04:08	
Ethanol	ug/L	ND	200	12/19/10 04:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/19/10 04:08	
Ethylbenzene	ug/L	ND	5.0	12/19/10 04:08	
m&p-Xylene	ug/L	ND	10.0	12/19/10 04:08	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/19/10 04:08	
Naphthalene	ug/L	ND	5.0	12/19/10 04:08	
o-Xylene	ug/L	ND	5.0	12/19/10 04:08	
tert-Amyl Alcohol	ug/L	ND	100	12/19/10 04:08	
tert-Amylmethyl ether	ug/L	ND	10.0	12/19/10 04:08	
tert-Butyl Alcohol	ug/L	ND	100	12/19/10 04:08	
tert-Butyl Formate	ug/L	ND	50.0	12/19/10 04:08	
Toluene	ug/L	ND	5.0	12/19/10 04:08	
Xylene (Total)	ug/L	ND	10.0	12/19/10 04:08	
1,2-Dichloroethane-d4 (S)	%	106	70-130	12/19/10 04:08	
4-Bromofluorobenzene (S)	%	98	70-130	12/19/10 04:08	
Dibromofluoromethane (S)	%	101	70-130	12/19/10 04:08	
Toluene-d8 (S)	%	100	70-130	12/19/10 04:08	

LABORATORY CONTROL SAMPLE: 543180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.4	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	961	96	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Diisopropyl ether	ug/L	50	45.0	90	70-130	
Ethanol	ug/L	2000	1950	98	70-130	
Ethyl-tert-butyl ether	ug/L	100	89.1	89	70-130	
Ethylbenzene	ug/L	50	45.8	92	70-130	
m&p-Xylene	ug/L	100	91.3	91	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Naphthalene	ug/L	50	53.3	107	70-130	
o-Xylene	ug/L	50	45.8	92	70-130	
tert-Amyl Alcohol	ug/L	1000	894	89	70-130	
tert-Amylmethyl ether	ug/L	100	90.1	90	70-130	
tert-Butyl Alcohol	ug/L	500	560	112	70-130	
tert-Butyl Formate	ug/L	400	289	72	70-130	

Date: 12/21/2010 05:08 PM

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QUALITY CONTROL DATA

Project: HWY 11 GROCERY 10-3090
 Pace Project No.: 9284163

LABORATORY CONTROL SAMPLE: 543180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.7	91	70-130	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543181 543182

Parameter	Units	9284163014		543181		543182		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Spike	MSD Spike	MS Result	MSD Result	MS Result	MSD Result					
1,2-Dichloroethane	ug/L	ND	50	50	42.0	48.9	84	98	70-130	15	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	762	907	76	91	70-130	17	30	
Benzene	ug/L	ND	50	50	42.0	49.3	84	99	70-130	16	30	
Diisopropyl ether	ug/L	ND	50	50	39.5	46.4	79	93	70-130	16	30	
Ethanol	ug/L	ND	2000	2000	1730	2100	86	105	70-130	19	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	76.4	91.5	76	92	70-130	18	30	
Ethylbenzene	ug/L	ND	50	50	42.3	49.9	85	100	70-130	17	30	
m&p-Xylene	ug/L	ND	100	100	83.3	98.4	83	98	70-130	17	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	41.0	49.8	82	100	70-130	19	30	
Naphthalene	ug/L	ND	50	50	47.1	55.5	94	111	70-130	16	30	
o-Xylene	ug/L	ND	50	50	40.7	48.6	81	97	70-130	18	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	719	865	72	87	70-130	18	30	
tert-Amylmethyl ether	ug/L	ND	100	100	73.7	87.9	74	88	70-130	18	30	
tert-Butyl Alcohol	ug/L	ND	500	500	333	408	67	82	70-130	20	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130	30		P5
Toluene	ug/L	ND	50	50	41.1	48.1	82	96	70-130	16	30	
1,2-Dichloroethane-d4 (S)	%						100	99	70-130			
4-Bromofluorobenzene (S)	%						97	98	70-130			
Dibromofluoromethane (S)	%						101	102	70-130			
Toluene-d8 (S)	%						99	98	70-130			





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QUALIFIERS

Project: HWY 11 GROCERY 10-3090
Pace Project No.: 9284163

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1 RPD value was outside control limits.



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: MECI		Report To: B. Shaw		Page: 3 of 3	
Address: 235-B Dooly Road		Copy To:		1407018	
City: Lexington, SC 29073		Purchase Order No.:		REGULATORY AGENCY	
State: SC		Project Name: Hwy 11 61007		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> USE <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Date/Time: 10-30-02		Project Profile #:		Site Location	
Project Manager: R. Spina		State: SC		<input type="checkbox"/> KUST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	

ITEM #	SAMPLE ID (A-Z, 0-9 / - / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see table codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	Temp in °C	Received on	Scales on	Custody	Samples Intact
			COMPOSITE START	COMPOSITE END/GRAB														
1	MW-1	MT B	12-13 13:20		3		Analysis Test ↑ BTEX, Methylene Chloride			12-13-10	10:00							
2	MW-2	MT B	12-13 14:40		3					12-13-10	15:15							
3	MW-3	MT B	12-13 14:50		3					12-13-10	15:15							
4	MW-4	MT B	12-13 15:00		3					12-13-10	15:15							
5	MW-5	MT B	12-13 14:10		3					12-13-10	15:15							
6	MW-6	MT B	12-13 14:10		3					12-13-10	15:15							
7	MW-7	MT B			3					12-13-10	15:15							
8	MW-8	MT B			3					12-13-10	15:15							
9	MW-9	MT B	12-13 11:55		3					12-13-10	15:15							
10	MW-10	MT B	12-13 12:35		3					12-13-10	15:15							
11	MW-11	MT B	12-13 11:40		3					12-13-10	15:15							
12	MW-12	MT B			3					12-13-10	15:15							
ADDITIONAL COMMENTS															SAMPLE CONDITIONS			
Report J Values															MAILED 2 30 115			
															12-13-10			
															12-13-10			

SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YYYY)	
PRINT Name of SAMPLER: BRANDEN		DATE SIGNED: 12-13-10	
SIGNATURE OF SAMPLER: <i>[Signature]</i>		DATE SIGNED: 12-13-10	



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: MECI
 Address: 235-B Doolley Road
 City: Wilmington, SC 29073
 Email To: JLC@mecl.net
 Phone: 803-808-2043
 Requested Date: 12-13-10

Section B
 Required Project Information:
 Report To: B. Shone
 Copy To:
 Purchase Order No.:
 Project Name: Hwy 11 Grocery
 Project Number: 10-3090

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 State: SC
 Page: 3 of 3
 1407020

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RORA OTHER
 Site Location
 State: SC

ITEM #	SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Requested Analysis Filtered (Y/N)				Temp in °C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)
				COMPOSITE START	COMPOSITE END/GRAB								Preservatives	Analysis Test	Residual Chlorine (Y/N)	PACE Project No./ Lab. I.D.				
1	CF-3	WT	B	12-13	11:20	12-13	14:00	12-13	10:05	B. Shone	12-13-10	10:05	Y	Y	Y	Y	Y	Y	Y	Y
2	WSW-1	WT	B	12-13	14:00	12-13	14:00	12-13	15:15	V. K. ...	12-13-10	15:15	Y	Y	Y	Y	Y	Y	Y	Y
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS
 Report J values

RELINQUISHED BY / AFFILIATION
 B. Shone
 Pace Analytical

DATE 12-13-10
TIME 10:05

ACCEPTED BY / AFFILIATION
 V. K. ...
 Pace Analytical

DATE 12-13-10
TIME 15:15

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: DEAN OWEN
 SIGNATURE OF SAMPLER: [Signature]

DATE SIGNED (MM/DD/YYYY): 12-13-10

ORIGINAL

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

F-ALL-Q020rev.07.15-May-2007

FIELD DATA SHEETS

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/13/2010

Field Personnel: Brian Owen, Kyle Pudney

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	<u>02A0831</u>	serial no.	<u>02A0831</u>
pH=4.0	<u>X</u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Highway 11 Grocery

Site ID#: 03439 Monitoring Well # DMW-1

Water Supply Well Public Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Free Product (DFP) _____ feet

Depth to Ground Water (DGW) 26.45 feet

Total Well Depth (TWD) 45 feet

Length of the water column (LWC=TWD-DGW) 18.55 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 = 3.02 gallons

3 casing volume (3 X CV)= 9.07 gallons

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Cumulative Volume Purged (gallons)							
Time (military)	13:30	13:35	13:42	13:50			
pH (s.u.)	6.26	6.81	6.77	6.68			
Specific Conductivity (µmhos/cm)	33.4	26.5	24.1	24.8			
Water Temperature (°C)	17.6	15.9	16.8	16.7			
Dissolved Oxygen	4.29	3.82	3.51	3.12			
PID readings, if required							

Remarks: _____ Sample Time: 13:50

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/13/2010

Field Personnel: Brian Owen, Kyle Pudney

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	standard	standard	X
pH=7.0	standard	standard	
pH=10.0	standard	standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Highway 11 Grocery

Site ID#: 03439 Monitoring Well # DMW-2

Water Supply Well Public Private Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Free Product (DFP) _____ feet

Depth to Ground Water (DGW) 17.85 feet

Total Well Depth (TWD) 75 feet

Length of the water column (LWC=TWD-DGW) 57.15 feet

1 casing volume (CV=LWC X C)= 0.163 X 57.15 = 9.32 gallons

3 casing volume (3 X CV)= 3 X 9.32 = 27.95 gallons

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	12:00	12:10	12:20	12:30			
pH (s.u.)	8.54	8.11	7.91	7.77			
Specific Conductivity (µmhos/cm)	36.3	33.4	37.8	38.2			
Water Temperature (°C)	15.2	14.1	14.5	14.2			
Dissolved Oxygen	2.37	2.15	4.34	4.45			
PID readings, if required							

Remarks: _____ Sample Time: 12:30

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/13/2010
 Field Personnel: Brian Owen, Kyle Pudney
 General Weather Conditions: Sunny
 Ambient Air Temperature: 28.0 °C
 Quality Assurance
 pH Meter YSI Model 550A Conductivity Meter
 serial no. 02A0831 serial no. 02A0831
 pH=4.0 standard X
 pH=7.0 standard X
 pH=10.0 standard X
 Chain of Custody
 Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
 Site ID#: 03439 Monitoring Well # DMW-4
 Water Supply Well _____ Public _____ Private _____
 Monitoring Well Diameter (D): _____ inches
 Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652
 * Free Product Thickness: _____ feet
 Depth to Free Product (DFP) _____ feet
 Depth to Ground Water (DGW) 26.90 feet
 Total Well Depth (TWD) 60 feet
 Length of the water column (LWC=TWD-DGW) 33.1 feet
 1 casing volume (CV=LWC X C)= _____ X 0.163 3 5.40 gallons
 3 casing volume (3 X CV)= _____ X _____ 16.19 gallons
 Total Volume of Water Purged Before Sampling _____ 16.5 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:10	13:15	13:20	13:25			
pH (s.u.)	7.18	7.02	6.89	6.70			
Specific Conductivity (µmhos/cm)	36.0	31.0	30.4	29.5			
Water Temperature (°C)	16.9	14.8	15.7	16.3			
Dissolved Oxygen	5.08	5.58	6.90	6.21			
PID readings, if required							
Remarks: _____ Sample Time: <u>13:25</u>							

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/13/2010

Field Personnel: Brian Owen, Kyle Pudney

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	standard	X	
pH=7.0	standard		
pH=10.0	standard		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Highway 11 Grocery

Site ID#: 03439 Monitoring Well # RW-1

Water Supply Well Public Private

Monitoring Well Diameter (D): 4 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: feet

Depth to Free Product (DFP) feet

Depth to Ground Water (DGW) 26.65 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 3.35 feet

1 casing volume (CV=LWC X C)= 0.652 X gallons

3 casing volume (3 X CV)= 3 X gallons

Total Volume of Water Purged Before Sampling gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	12:45	12:50	12:55	13:00			
pH (s.u.)	7.60	7.42	7.40	7.37			
Specific Conductivity (µmhos/cm)	79.1	76.8	74.1	72.9			
Water Temperature (°C)	16.8	16.9	17.1	17.7			
Dissolved Oxygen	2.92	2.44	2.47	2.44			
PID readings, if required							

Remarks: Sample Time: 13:00

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/13/2010

Field Personnel: Brian Owen, Kyle Pudney

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	standard	standard	X
pH=7.0	standard	standard	
pH=10.0	standard	standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Highway 11 Grocery

Site ID#: 03439 Monitoring Well # RW-3

Water Supply Well Public Private Private

Monitoring Well Diameter (D): 4 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Free Product (DFP) _____ feet

Depth to Ground Water (DGW) 23.68 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 6.32 feet

1 casing volume (CV=LWC X C)= 0.652 X _____ gallons

3 casing volume (3 X CV)= 3 X 0.652 = 1.956 gallons

Total Volume of Water Purged Before Sampling 8 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:55	14:00	14:05				
pH (s.u.)	6.25	Sheen	Sheen				
Specific Conductivity (umhos/cm)	37.7	Sheen	Sheen				
Water Temperature (°C)	17.7	Sheen	Sheen				
Dissolved Oxygen	2.62	Sheen	Sheen				
PID readings, if required							
Remarks:	Dry at 8.0 gallons						
Sample Time:	14:05						

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/13/2010
 Field Personnel: Brian Owen, Kyle Pudney
 General Weather Conditions: Sunny
 Ambient Air Temperature: 28.0 °C
 Quality Assurance
 pH Meter YSI Model 550A Conductivity Meter
 serial no. 02A0831 serial no. 02A0831
 pH=4.0 standard X
 pH=7.0 standard X
 pH=10.0 standard X
 Chain of Custody
 Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
 Site ID#: 03439 Monitoring Well # RW-4
 Water Supply Well Public Private Private
 Monitoring Well Diameter (D): 4 inches
 Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652
 * Free Product Thickness: _____ feet
 Depth to Free Product (DFP) _____ feet
 Depth to Ground Water (DGW) 24.34 feet
 Total Well Depth (TWD) 30 feet
 Length of the water column (LWC=TWD-DGW) 5.66 feet
 1 casing volume (CV=LWC X C)= 0.652 X 3 3.69 gallons
 3 casing volume (3 X CV)= 11.07 gallons
 Total Volume of Water Purged Before Sampling 9 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:00	14:05	14:10				
pH (s.u.)	6.47	6.29	6.18				
Specific Conductivity (µmhos/cm)	43.8	39.2	37.1				
Water Temperature (°C)	16.6	18.5	18.9				
Dissolved Oxygen	2.11	1.70	1.66				
PID readings, if required							
Remarks: _____ Sample Time: <u>14:10</u> Parameters within 10 percent							

WASTE DISPOSAL MANIFESTS



January 5, 2011

Re: Treatment of Purge Water
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID Number 03439
MECI Project Number 10-3190

To Whom It May Concern;

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

Applicability:

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

Conditions:

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

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

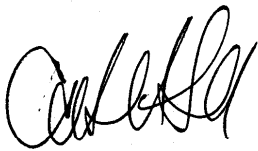
January 5, 2011

A total of two (2) drums were treated on December 13, 2010 at the referenced site.

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

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

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Richland County LF
 1047 Highway Church Road
 Elgin, SC, 29045
 Ph: (803) 788-3054

Original
 Ticket# 1071174

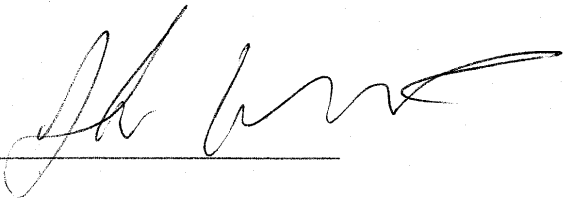
Customer Name MIDLANSENVIRON MIDLANDS ENVI Carrier MIDLANSENVIRON MIDLANDS ENVIRONMENT
 Ticket Date 12/13/2010 Vehicle# 1 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0000469
 State Waste Code Gen EPA ID
 Manifest 0
 Destination
 PO
 Profile VA2718 (SOIL FROM UST ASSESSMENT)
 Generator 126-MIDLANSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

	Time	Scale	ScaleMaster	Gross	16160 lb
In	12/13/2010 12:10:20	Scale2	Dwayne	Tare	9860 lb
Out	12/13/2010 12:32:26	Scale2	Dwayne	Net	6300 lb
				Tons	3.15

Comments


Product	LDX	Qty	UDM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil - 100	3.15	Tons				37-OCONEE
2	FUEL-Fuel Surcharg 100		%				37-OCONEE
3	EVF-P-Standard Env 100		%				37-OCONEE

Hwy. 11 Grocery

SIGNATURE 

Total Fees
 Total Ticket

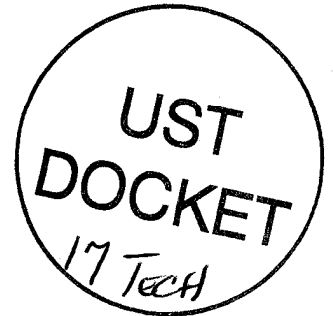
SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	Richland Landfill 1047 Highway Church Road Elgin, SC 29045  Special Waste Phone: 803-744-3346 Fax: 866-904-7194
EXPIRATION DATE November 17, 2013	
Prepared by: Karen Truett/Carol Weldon	
GENERATOR OF WASTE: Midlands Env. Consultants, Inc. - Various	ACCOUNT NUMBER: 820-469
CUSTOMER Midlands Env. Consultants	
LOCATION OF WASTE: Site Address:	
CITY: <u>Salem</u>	COUNTY: <u>Oconee</u>
PHONE NUM <u>803-808-2043</u>	CONTACT: Bryan Shane
FAX NUMBER: <u>803 808 2048</u>	
GENERATOR'S SIGNATURE <u>[Signature]</u>	DATE: <u>12-13-10</u>
TRANSPORTER OF WASTE: <u>Meer</u>	
DATE: <u>12-13-10</u>	TRUCK NUMBER: <u>2</u>
DRIVER'S SIGNATURE <u>[Signature]</u>	
**** TO BE COMPLETED BY RICHLAND LANDFILL ****	
DISPOSAL SITE: <u>RICHLAND LANDFILL ELGIN, SC</u>	Waste Class: Soil
DESCRIPTION OF WASTE: <u>Soil from UST Assessment</u>	
TICKET NUMBER: <u>1071176</u>	
RECEIVED BY: <u>[Signature]</u>	



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.



FEB 17 2011

BRIAN SHANE
 MIDLANDS ENVIRONMENTAL CONSULTANTS INC
 P O BOX 854
 LEXINGTON SC 29071-0854

Re: Bid # IBF-36815-8/27/09-EMW; PO # 4500011659
 Notice to Proceed

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct Free Product (FP) recovery using Aggressive Fluid Vapor Recovery (AFVR) or passive skimmers at several facilities. The packets contain the necessary approval for work to begin. You may commence with a site reconnaissance before the AFVR and/or passive skimmers installation. If monitoring wells do not contain measurable free phase product, contact the UST project manager for further instructions. The facilities have been assigned Cost Agreement (CA) numbers as listed below. Please reference the CA numbers and Purchase Order # 4500011659 on the appropriate invoices submitted for payment against the facilities. As specified in the referenced bid, the completed invoice forms and associated reports (include contract certification number) are expected on or before the designated due date (see below).

UST Permit #	Facility	County	Releas	Work Scope	Due Date*	CA #	Approved Amt.
01253	Mack's Camp	Berkeley	1	3 AFVR	60 days	40723	3,315.00
06926	Quick Panty 12	Orangeburg	1	3 AFVR	60 days	40771	3,315.00
07907	USA Petroleum	Richland	1	4 AFVR	60 days	40773	4,675.00
08979	Gregory's Store	Union	1	2 AFVR	60 days	40801	2,375.00
18662	Bay Creek Villas	Colleton	1	5 AFVR	60 days	40831	5,475.00
14555	E Z Stop Food Shop	Lexington	1	3 AFVR	90 days	40849	3,350.00
03439	Highway 11 Grocery	Oconee	1	9 AFVR	90 days	40894	9,975.00
11702	Colonel Creek Landing	Fairfield	1	3 AFVR	60 days	41028	3,315.00

*From receipt of letter

Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the SUPERB Account. The site's UST owners have no obligation for payment for this scope of work. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained.

If for any reason there are changes in these cost agreements, any associated changes to this cost agreement must be pre-approved by this Department in order for Midlands Environmental Consultants to seek future cost compensation. Please contact the site's project manager for technical and/or financial approval. Any item(s) not clearly or completely addressed in the report (disposal manifest for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account.

The Department grants pre-approval for transportation of free phase product and petroleum contaminated groundwater from the referenced site to a permitted treatment facility. The free product and contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the report.

If you have any questions concerning this correspondence or need further assistance, please contact me by phone at (803) 896-6664, by fax at (803) 896-6245 or by email at milenkmp@dhec.sc.gov.

Sincerely,



Maia Milenkova, Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreements (ACA)
Information Packets
cc: Technical File (w/copy of ACA)

SCDHEC/UST/02/09/11/MPM

Approved Cost Agreement 40894

Facility: 03439 HWY 11 GROCERY

PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A EQUIPMENT	9.0000	350.00	3,150.00
17 DISPOSAL		A2 WASTEWATER - PUMPING TEST	4,500.0000	0.10	450.00
23 EFR		A 8 HOUR EVENT	9.0000	600.00	5,400.00
		C OFF GAS TREATMENT	9.0000	100.00	900.00
		D SITE RECQNNAISSANCE	1.0000	75.00	75.00
Total Amount					9,975.00

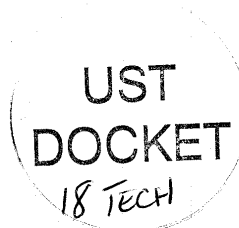


March 2, 2011

Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223A
Certified Site Rehabilitation Site Contractor UCC-0009



Dear Mr. Smith,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

A site visit was conducted at Highway 11 Grocery on February 21, 2011 to gauge/locate relevant monitoring wells and to evaluate current site conditions. MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on February 28, 2011. The event was conducted on monitoring wells MW-1, RW-1, and RW-2 to remove free phase petroleum product. Free phase petroleum product was detected in MW-1 at a thickness of 0.02 feet, in RW-1 at a thickness of 0.03 feet, and in RW-2 at a thickness of 0.09 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 31.41 pounds or approximately 5.43 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 3.92 pounds per hour. Concentrations of off gas produced during the event were recorded from 1,222 parts per million by volume (PPM) to 2,123 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 15.0 to 19.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

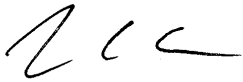
A total of 200 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Jeff L. Coleman
Senior Scientist

Attachments:

**TABLE 1A
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223A
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements			Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	
MW-1	02/28/11	10:00	0.50	15.0	2,047	1,990	179.10	2.20
RW-1	02/28/11	10:30	0.50	15.0	2,123	2,170	195.30	4.40
RW-2	02/28/11	11:00	0.50	15.0	1,859	2,420	217.80	4.98
	02/28/11	11:30	0.50	15.0	1,638	2,350	211.50	4.86
	02/28/11	12:00	0.50	15.0	1,504	2,210	198.90	4.16
	02/28/11	12:30	0.50	15.0	1,222	1,920	172.80	3.59
	02/28/11	13:00	0.50	17.0	1,437	2,030	182.70	2.53
	02/28/11	13:30	0.50	17.0	1,592	1,960	176.40	3.15
	02/28/11	14:00	0.50	17.0	1,801	1,840	165.60	3.37
	02/28/11	14:30	0.50	17.0	1,853	1,870	168.30	3.58
	02/28/11	15:00	0.50	17.0	1,831	1,920	172.80	3.74
	02/28/11	15:30	0.50	17.0	1,827	1,940	174.60	3.80
	02/28/11	16:00	0.50	19.0	1,984	1,810	162.90	3.83
	02/28/11	16:30	0.50	19.0	1,870	1,690	152.10	3.88
	02/28/11	17:00	0.50	19.0	1,816	1,660	149.40	3.41
	02/28/11	17:30	0.50	19.0	1,748	1,710	153.90	3.26
	02/28/11	18:00	0.50	19.0	1,703	1,670	150.30	3.23
								3.07
								TOTAL
								31.41

Well No.	Diameter (in)	Well Data:		Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
		Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Water (ft)	
MW-1	2"	15-30	25.60	25.62	0.02	26.24	0.64	
RW-1	4"	10-30	25.77	25.80	0.03	26.11	0.34	
RW-2	4"	10-30	25.00	25.09	0.09	25.59	0.58	

Vacuum Truck Information		Recovery / Disposal Information	
Subcontractor:	MECI	Hydrocarbons Removed (vapor):	31.41 Pounds
Truck Operator:	G. Globensky	Hydrocarbons Removed (liquid):	0 Gallons
Stack I.D. (feet)	0.33 feet	Total Hydrocarbons Removed:	5.43 Equivalent Gallons
		Molecular Weight Utilized:	75 g/mole
		Disposal Facility:	TK Tank Services, Inc.
		Total Liquids Removed:	200 Gallons

Corrected depth to water before AFVR Event in MW-1 =
Corrected depth to water before AFVR Event in RW-1 =
Corrected depth to water before AFVR Event in RW-2 =

**TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223A
SCDHEC SITE ID NUMBER 03439**

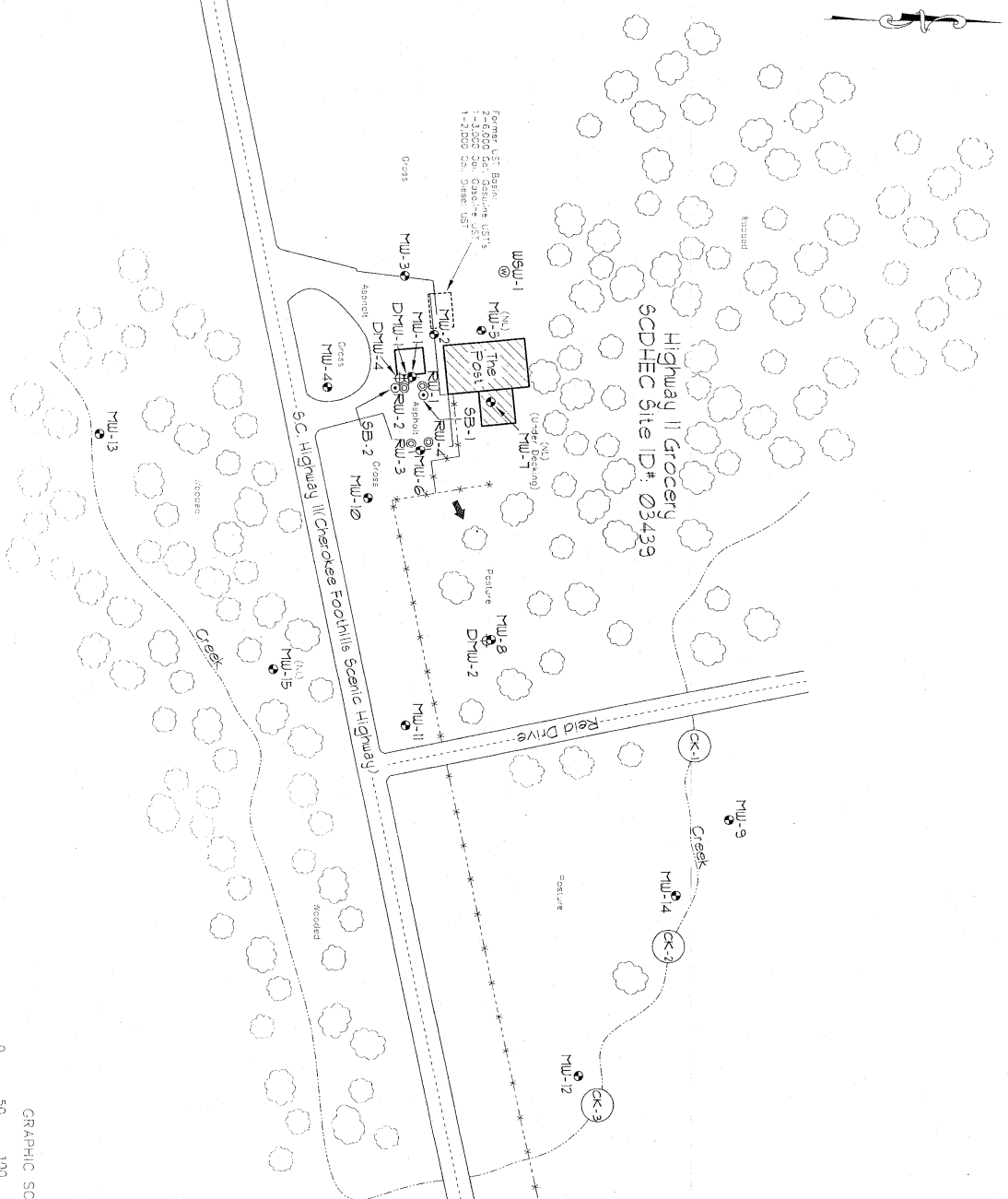
DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-6
Nearest Extraction Well:		MW-1	RW-2	RW-2
Approximate Distance:		41 ft	60 ft	55 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
10:00	0.0	0	0	0
10:30	0.5	0	0	0
11:00	1.0	0	0	0
11:30	1.5	0	0	0
12:00	2.0	0	0	0
12:30	2.5	0	0	0
13:00	3.0	0	0	0
13:30	3.5	0	0	0
14:00	4.0	0	0	0
14:30	4.5	0	0	0
15:00	5.0	0	0	0
15:30	5.5	0	0	0
16:00	6.0	0	0	0
16:30	6.5	0	0	0
17:00	7.0	0	0	0
17:30	7.5	0	0	0
18:00	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	MW-4	MW-6
Nearest Extraction Well:		MW-1	RW-2	RW-2
Approximate Distance:		41 ft	60 ft	55 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		27.35	23.52	22.61
14:00	4 hours	27.37	23.52	22.77
18:00	8 hours	27.41	23.55	22.86
Maximum Change:		-0.06	-0.03	-0.25

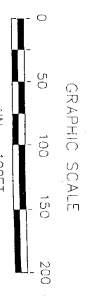
Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Explanation:

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

- ⊙ Location of Soil Test Boring
- ⊙ Location of Surface Water Sample Collection
- Fence
- Creek



GRAPHIC SCALE
ALL LOCATIONS ARE APPROXIMATE

Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
Midlands Environmental Consultants, Inc.	
JOB NO. 10-2090	FIGURE 2
DATE: January 5, 2010	

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)			
Generator's Phone:		MIDLANDS ENVIRONMENTAL 1144 TWO NOTCH ROAD LEXINGTON, SC 29072			
6. Transporter 1 Company Name			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:		16. TOWN SERVICES COURT, CYPRESS, GA 30505			
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. NON-HAZARDOUS PETROLEUM CONTAMINATED WATER	1	77	3325		
2. <u>Site</u>	<u>Site ID</u>	<u>Gallons</u>			
Philips Rental Property	19328	30			
Bank of America	19190	150			
3. Former McCoy Oil Site	19002	325			
Pratts Grocery	06974	200			
Pratts Grocery	06974	125			
4. Heath Self Service 2	08932	220			
Heath Self Service 2	08932	250			
Former Royal Petroleum	19426	325			
13. Specific	Anderson Patrol	00769	100		
	Gregory's Store	08979	175		
	Times Turn Around	10381	150		
	Fort Mill 66	09317	150		
	Pitt Stop 31	16604	325		
	USA Petroleum	17907	150		
14. GENERATOR'S	USA Petroleum	17902	250	subject to federal regulations for reporting proper disposal of Hazardous Waste.	
	Colonel Creek Landing	11702	200	Signature	Month Day Year
	Highway 11 Grocery	03439	200		
15. INTERNAL	Rogers Auto Parts	00428	100	Port of entry/exit:	
	Transporter Signature (for exports only):			Date leaving U.S.:	
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name			Signature	Month	Day Year
Transporter 2 Printed/Typed Name			Signature	Month	Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)			Manifest Reference Number: 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

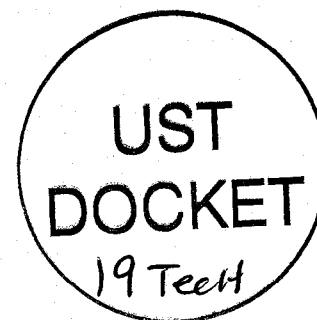


March 18, 2011



Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223B
Certified Site Rehabilitation Site Contractor UCC-0009



Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on March 2, 2011. The event was conducted on monitoring well MW-8 to remove free phase petroleum product. Free phase petroleum product was detected in MW-8 at a thickness of 0.25 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 9.99 pounds or approximately 1.72 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.25 pounds per hour. Concentrations of off gas produced during the event were recorded from 477 parts per million by volume (PPM) to 1,590 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 15.0 to 20.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

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

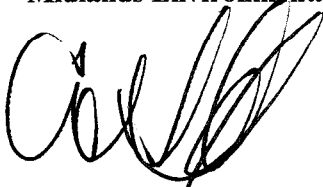
A total of 100 gallons of liquid was removed from MW-8 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

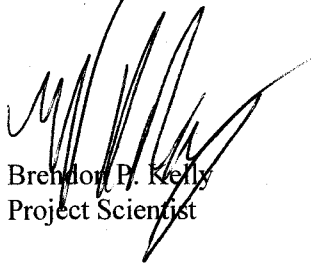
The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1B
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223B
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs					
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr						
MW-8	03/02/11	12:30	0.50	18.0	1,471	920	82.80	1.46	0.73					
	03/02/11	13:00	0.50	18.0	1,590	990	89.10	1.70	0.85					
	03/02/11	13:30	0.50	15.0	1,585	1,260	113.40	2.16	1.08					
	03/02/11	14:00	0.50	15.0	928	1,230	110.70	1.23	0.62					
	03/02/11	14:30	0.50	20.0	1,135	510	45.90	0.63	0.31					
	03/02/11	15:00	0.50	15.0	948	1,190	107.10	1.22	0.61					
	03/02/11	15:30	0.50	15.0	610	1,520	136.80	1.00	0.50					
	03/02/11	16:00	0.50	15.0	485	1,430	128.70	0.75	0.37					
	03/02/11	16:30	0.50	15.0	501	1,470	132.30	0.80	0.40					
	03/02/11	17:00	0.50	15.0	477	1,510	135.90	0.78	0.39					
	03/02/11	17:30	0.50	15.0	710	1,240	111.60	0.95	0.48					
	03/02/11	18:00	0.50	15.0	698	1,260	113.40	0.95	0.47					
	03/02/11	18:30	0.50	15.0	815	1,300	117.00	1.14	0.57					
	03/02/11	19:00	0.50	15.0	874	1,440	129.60	1.36	0.68					
	03/02/11	19:30	0.50	20.0	1,580	840	75.60	1.43	0.72					
	03/02/11	20:00	0.50	20.0	1,486	770	69.30	1.24	0.62					
	03/02/11	20:30	0.50	20.0	1,475	740	66.60	1.18	0.59					
									TOTAL 9.99					
Well Data:					Pre AFVR Event					Post AFVR Event				
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Stinger Depth	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Product Thickness (ft)	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)			
MW-8	2"	15-30	21.45	23.00	21.70	0.25	***	***	22.20	***	0.71			
Vacuum Truck Information					Recovery / Disposal Information									
Subcontractor:	MECI								9.99	Pounds				
Truck Operator:	C. Lashley								0	Gallons				
Stack I.D. (feet)	0.33 feet								1.72	Equivalent Gallons				
Corrected depth to water before AFVR Event in MW-8 =									75	g / mole				
									100	TK Tank Services, Inc.				
										Gallons				

TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223B
SCDHEC SITE ID NUMBER 03439

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-10	MW-11	MW-12
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		164 ft	106 ft	386 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
12:30	0.0	0	0	0
13:00	0.5	0	0	0
13:30	1.0	0	0	0
14:00	1.5	0	0	0
14:30	2.0	0	0	0
15:00	2.5	0	0	0
15:30	3.0	0	0	0
16:00	3.5	0	0	0
16:30	4.0	0	0	0
17:00	4.5	0	0	0
17:30	5.0	0	0	0
18:00	5.5	0	0	0
18:30	6.0	0	0	0
19:00	6.5	0	0	0
19:30	7.0	0	0	0
20:00	7.5	0	0	0
20:30	8.0	0	0	0
Maximum Change:		0	0	0

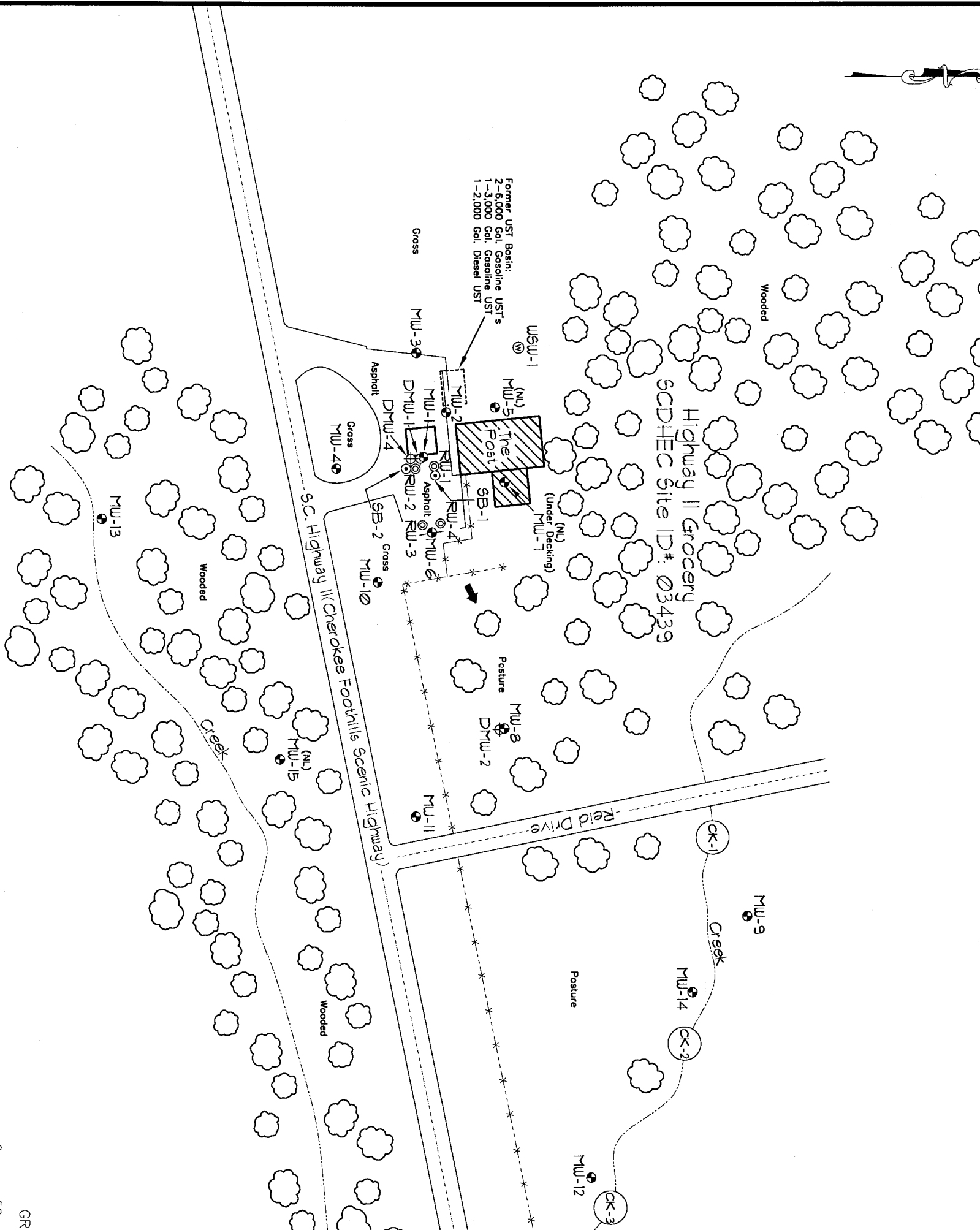
GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-10	MW-11	MW-12
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		164 ft	106 ft	386 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		20.07	16.95	3.05
16:30	4 hours	20.05	16.94	3.05
20:30	8 hours	20.05	16.94	3.05
Maximum Change:		0.02	0.01	0.00



Highway 11 Grocery
SCDHEC Site ID#: 03439

Former UST Basin:
2-6,000 Gal. Gasoline UST's
1-3,000 Gal. Gasoline UST
1-2,000 Gal. Diesel UST



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

PK10381

5. Generator's Name and Mailing Address

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

MIDLANDS ENVIRONMENTAL
1144 TWO NOTCH ROAD
LEXINGTON, SC 29073

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

SUMTER, SC

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

TR TANK SERVICES
125 BOULEVARD ROAD
SUMTER, SC 29153

Facility's Phone:

9. Waste Shipping Name and Description

803-418-5314

10. Containers

11. Total Quantity

12. Unit

No.

Type

Quantity

Wt./Vol.

1.

NON HAZARDOUS PETROLEUM CONTAMINATED WATER

1

TT

AD
3385
GAL.

2.

Site: UST Permit #: Gallons Produced:

3.

Heath Self Serve 08932 200
Highway 11 Grocery 03439 100
Highway 11 Grocery 03439 50
Movie Gallery 19077 160

4.

Pantry 3418 05042 165
Summers Store 03198 100
Phillips Rental 19328 100
Bay Creek Villas 18662 100

13. Special Handling

One Stop 14346 225
UST Unknown 18678 100
Sweatman's Grocery 15222 225
Two Way Mart 12708 100
Quick Pantry 12 03040 200
Mack's Camp 01253 175
Wando Lounge 01077 125
McCoy Oil 19002 235

14. GENERATOR'S

Great Falls Exxon 14469 100
Pratts 06974 25
Former Gulf Station 18447 250
EZ Stop 14555 100

15. International Shipper

Pantry 3235 02872 150
Colonel Creek 11702 175

16. Transporter Acknowledgment

Bay Creek Villas 18662 125
Hillcrest Grocery 09383 50
Hillcrest Grocery 09383 50

Transporter 2 Printed/Typed Name

Signature

Month Day Year

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name

Signature

Month Day Year

GENERATOR

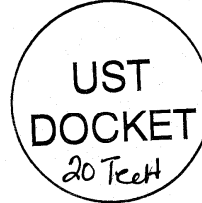
INT'L

TRANSPORTER

DESIGNATED FACILITY



March 18, 2011



Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223C
Certified Site Rehabilitation Site Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on March 3, 2011. The event was conducted on monitoring wells MW-6, RW-3 and RW-4 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in the wells prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 8.75 pounds or approximately 1.51 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.09 pounds per hour. Concentrations of off gas produced during the event were recorded from 698 parts per million by volume (PPM) to 1,154 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 15.0 to 20.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1C.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

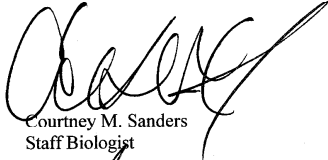
A total of 50 gallons of liquid was removed from MW-6, RW-3, and RW-4 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

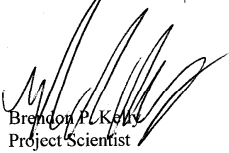
The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kew
Project Scientist

Attachments:

**TABLE 1C
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223C
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements			Removal Rate Lbs/Hr	Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM		
MW-6	03/03/11	9:30	0.50	17.0	795	1,280	115.20	1.10	0.55
RW-3	03/03/11	10:00	0.50	17.0	698	1,250	112.50	0.94	0.47
RW-4	03/03/11	10:30	0.50	20.0	1,019	720	64.80	0.79	0.40
	03/03/11	11:00	0.50	19.0	1,025	960	50.40	0.32	0.31
	03/03/11	11:30	0.50	16.0	1,154	1,170	105.30	1.46	0.73
	03/03/11	12:00	0.50	15.0	1,114	1,060	95.40	1.28	0.64
	03/03/11	12:30	0.50	15.0	980	1,030	92.70	1.09	0.55
	03/03/11	13:00	0.50	15.0	871	990	89.10	0.93	0.47
	03/03/11	13:30	0.50	15.0	898	1,050	94.50	1.02	0.51
	03/03/11	14:00	0.50	15.0	962	960	86.20	1.02	0.51
	03/03/11	14:30	0.50	16.0	871	1,120	100.80	1.05	0.53
	03/03/11	15:00	0.50	16.0	928	1,250	112.50	1.25	0.63
	03/03/11	15:30	0.50	15.0	989	1,040	93.60	1.11	0.56
	03/03/11	16:00	0.50	15.0	921	1,020	91.80	1.01	0.51
	03/03/11	16:30	0.50	15.0	974	1,010	90.90	1.06	0.53
	03/03/11	17:00	0.50	15.0	772	990	89.10	0.83	0.41
	03/03/11	17:30	0.50	16.0	968	900	81.00	0.94	0.47
									TOTAL 8.75

Well No.	Diameter (in)	Screened Interval (ft)	Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
			Depth to Product (ft)	Depth to Water (ft)	Depth to Product (ft)	Depth to Water (ft)	
MW-6	2"	20-35	***	22.57	***	22.75	0.18
RW-3	4"	10-30	***	22.80	***	21.45	-1.35
RW-4	4"	10-30	***	23.44	***	23.40	-0.04

Vacuum Truck Information		Recovery / Disposal Information	
Subcontractor:	Well ID	Product Thickness (ft)	Stinger Depth
MECI	MW-6	***	23.00
C. Lashley	RW-3	***	24.00
0.33 feet	RW-4	***	24.00

Hydrocarbons Removed (vapor): 8.75 Pounds
Hydrocarbons Removed (liquid): 0 Gallons
Total Hydrocarbons Removed: 1.51 Equivalent Gallons
Molecular Weight Utilized: 75 g / mole
Disposal Facility: TK Tank Services, Inc.
Total Liquids Removed: 50 Gallons

**TABLE 2C
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223C
SCDHEC SITE ID NUMBER 03439**

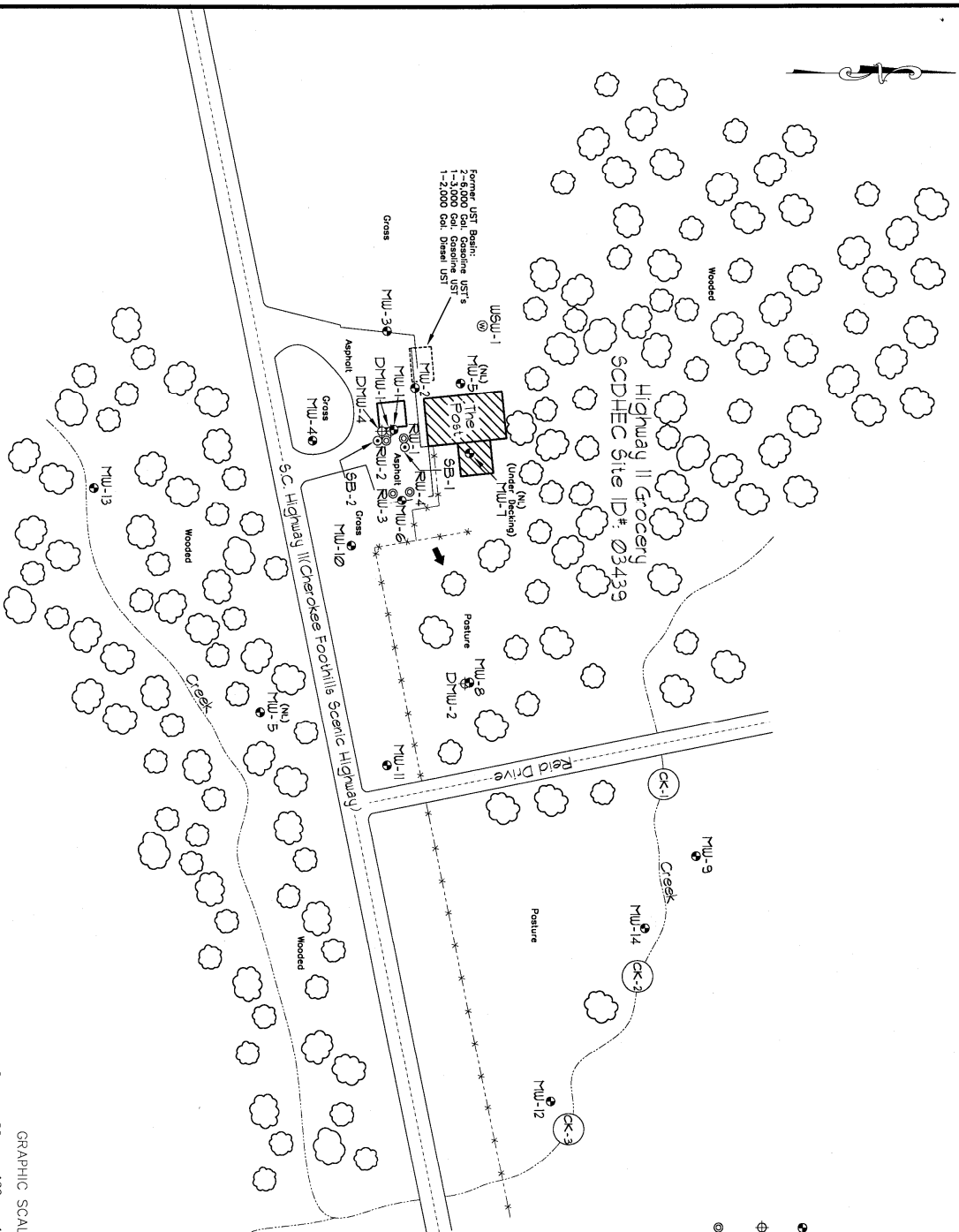
DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		RW-4	RW-3	RW-3
Approximate Distance:		94 ft	86 ft	60 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
9:30	0.0	0	0	0
10:00	0.5	0	0	0
10:30	1.0	0	0	0
11:00	1.5	0	0	0
11:30	2.0	0	0	0
12:00	2.5	0	0	0
12:30	3.0	0	0	0
13:00	3.5	0	0	0
13:30	4.0	0	0	0
14:00	4.5	0	0	0
14:30	5.0	0	0	0
15:00	5.5	0	0	0
15:30	6.0	0	0	0
16:00	6.5	0	0	0
16:30	7.0	0	0	0
17:00	7.5	0	0	0
17:30	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		RW-4	RW-3	RW-3
Approximate Distance:		94 ft	86 ft	60 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		27.35	23.50	20.09
13:30	4 hours	27.35	23.50	20.07
17:30	8 hours	27.34	23.53	20.07
Maximum Change:		0.01	-0.03	0.02

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Explanation:

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

- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- Fence
- Creek

Site Features

<p>Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439</p>	
<p>Midlands Environmental Consultants, Inc.</p>	
<p>JOB NO. 10-2090</p>	<p>DATE: January 5, 2010</p>
<p>TITLE</p>	<p>2</p>

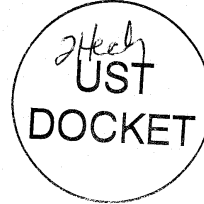
GRAPHIC SCALE
0 50 100 150 200
1 IN = 100 FT
ALL LOCATIONS ARE APPROXIMATE

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)			
Generator's Phone:		MIDLANDS ENVIRONMENTAL 1134 TWO NOTCH ROAD LEXINGTON, SC 29073			
6. Transporter 1 Company Name		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:		TANK SERVICES 125 BOULEVARD ROAD SUMTER, SC 29153			
9. Waste Shipping Name and Description		803-418-5		10. Containers	
				No. Type	
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		1 41		AD 3395 GAL	
2.					
3.					
4.					
13. Special Handling		UST Unknown			
14. GENERATOR'S		Great Falls Exxon			
Generator's/Officer's		Pratts			
15. International Ship		Pantry 3235			
Transporter Signature		Colonel Creek			
16. Transporter Ack		Bay Creek Villas			
Transporter 1 Printed		Hillcrest Grocery			
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy		17a. Discrepancy Indication Space			
		<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection			
17b. Alternate Facility (or Generator)		Manifest Reference Number: U.S. EPA ID Number			
Facility's Phone:		17c. Signature of Alternate Facility (or Generator)			
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			



April 13, 2011

Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223D
Certified Site Rehabilitation Site Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on April 11 & 12, 2011. The event was conducted on monitoring wells MW-6, RW-3 and RW-4 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in the wells prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 10.56 pounds or approximately 1.82 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.32 pounds per hour. Concentrations of off gas produced during the event were recorded from 153.6 parts per million by volume (PPM) to 901.8 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 6.0 to 10.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1D.

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

A total of 165 gallons of liquid was removed from MW-6, RW-3, and RW-4 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1D
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223D
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	
MW-6	04/11/11	18:45	0.50	9.0	901.6	2,160	194.40	2.10	1.05
RW-3	04/11/11	19:15	0.50	9.0	878.9	2,150	193.50	2.04	1.02
RW-4	04/11/11	19:45	0.50	9.0	805.3	2,160	194.40	1.88	0.94
	04/11/11	20:15	0.50	9.0	792.7	2,170	195.30	1.86	0.93
	04/11/11	20:45	0.50	9.0	801.1	2,170	195.30	1.88	0.94
	04/11/11	21:15	0.50	8.0	543.5	2,330	209.70	1.37	0.68
	04/11/11	21:45	0.50	8.0	602.7	2,320	208.80	1.51	0.76
	04/11/11	22:15	0.50	8.0	512.9	2,330	209.70	1.29	0.65
	04/11/11	22:45	0.50	8.0	482.2	2,340	210.60	1.22	0.61
	04/11/11	23:15	0.50	8.0	406.8	2,350	211.50	1.03	0.52
	04/12/11	00:15	0.50	8.0	394.1	2,340	210.60	1.00	0.50
	04/12/11	00:45	0.50	8.0	365.5	2,360	212.40	0.93	0.47
	04/12/11	1:15	0.50	6.0	210.1	2,490	224.10	0.57	0.28
	04/12/11	1:45	0.50	6.0	199.9	2,500	225.00	0.54	0.27
	04/12/11	2:15	0.50	10.0	153.6	2,480	223.20	0.41	0.21
	04/12/11	2:45	0.50	10.0	370.8	2,110	189.90	0.84	0.42
	04/12/11	2:45	0.50	10.0	286.6	2,100	189.00	0.65	0.33
									TOTAL
									10.56

Well No.	Diameter (in)	Well Data:		Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
		Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Water (ft)	
MW-6	2"	20-35	***	20.90	***	21.35	***	0.45
RW-3	4"	10-30	***	21.20	***	21.55	***	0.35
RW-4	4"	10-30	***	21.80	***	22.20	***	0.40

Vacuum Truck Information		Recovery / Disposal Information	
Subcontractor:	MECI	Hydro carbons Removed (vapor):	10.56 Pounds
Truck Operator:	K. Pudney	Hydro carbons Removed (liquid):	0 Gallons
Stack I.D. (feet):	0.33 feet	Total Hydrocarbons Removed:	1.82 Equivalent Gallons
		Molecular Weight Utilized:	75 g/mole
		Disposal Facility:	TK Tank Services, Inc.
		Total Liquids Removed:	165 Gallons

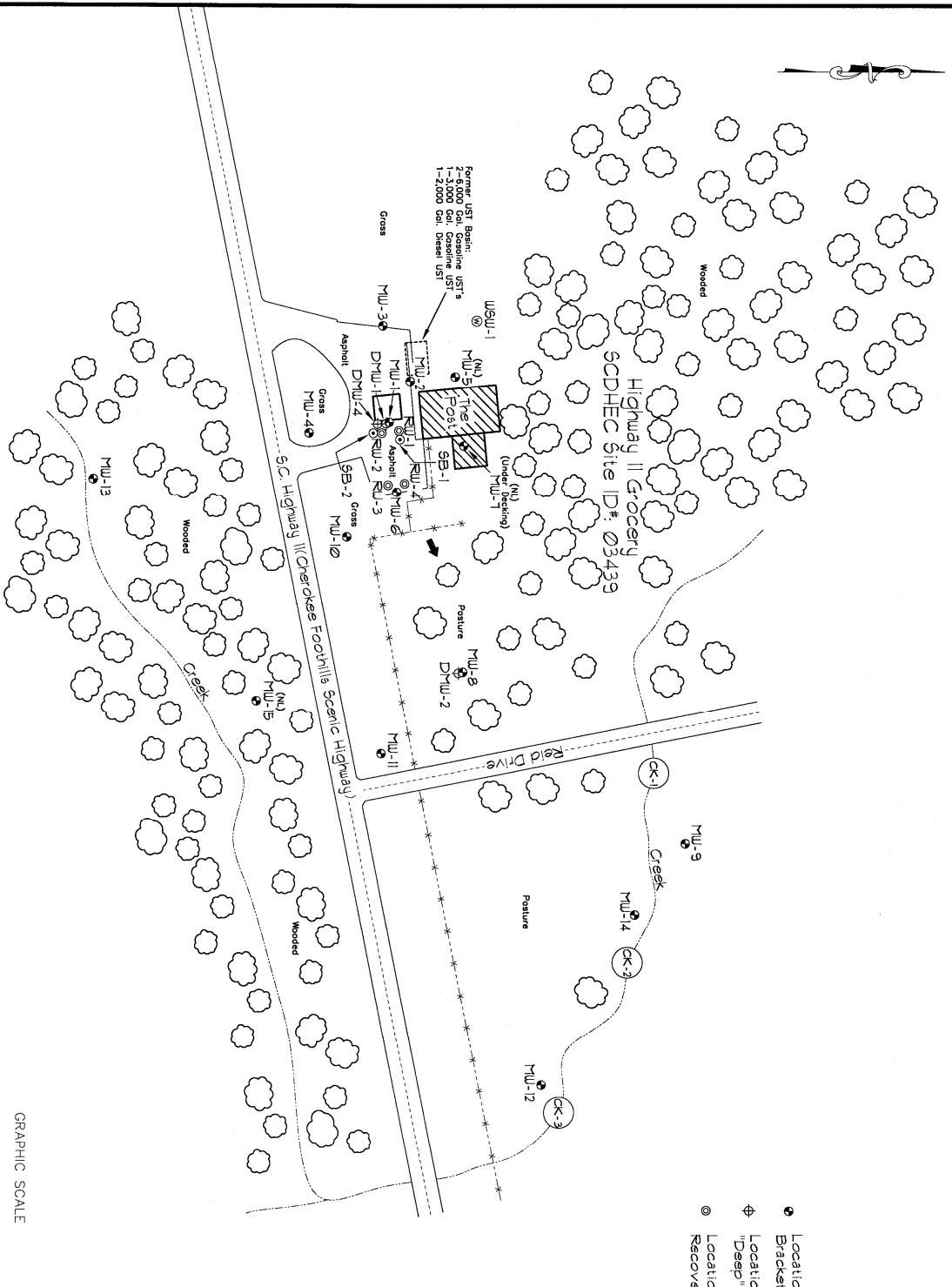
**TABLE 2D
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223D
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		RW-4	RW-3	RW-3
Approximate Distance:		94 ft	86 ft	60 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
18:45	0.0	0	0	0
19:15	0.5	0	0	0
19:45	1.0	0	0	0
20:15	1.5	0	0	0
20:45	2.0	0	0	0
21:15	2.5	0	0	0
21:45	3.0	0	0	0
22:15	3.5	0	0	0
22:45	4.0	0	0	0
23:15	4.5	0	0	0
23:45	5.0	0	0	0
00:15	5.5	0	0	0
0:45	6.0	0	0	0
1:15	6.5	0	0	0
1:45	7.0	0	0	0
2:15	7.5	0	0	0
2:45	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

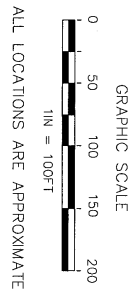
		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		RW-4	RW-3	RW-3
Approximate Distance:		94 ft	86 ft	60 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		25.70	21.93	18.55
22:45	4 hours	25.71	21.96	18.55
2:45	8 hours	25.72	21.98	18.55
Maximum Change:		-0.02	-0.05	0.00



Explanation:

- Location of Water Table
- ⊕ Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊕ Location of 4-inch Recovery Well
- ⊙ Location of Soil Test Boring
- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Estimated Groundwater Flow Direction
- ⊙ Estimated Location of Removed Underground Storage Tanks
- ⊙ Location of Water Supply Well
- ⊙ Estimated Groundwater Flow Direction
- ⊙ Estimated Location of Removed Underground Storage Tanks
- Fence
- Creek

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID #3439	
099 NO. 10-3090 DATE: January 5, 2010 FIGURE	2

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address) TK10317			
<p style="text-align: center;">MIDLANDS ENVIRONMENTAL 1144 TWO NOTCH ROAD LEXINGTON, SC 29073</p>					
Generator's Phone:		6. Transporter 1 Company Name		U.S. EPA ID Number	
7. Transporter 2 Company Name		SUINTER, SC		087677567	
8. Designated Facility Name and Site Address		U.S. EPA ID Number			
<p style="text-align: center;">TK TANK SERVICES 125 BOULEVARD ROAD SUINTER, SC 29153</p>		087677567			
Facility's Phone:		903-418-5314		087677567	
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		No.	Type	3,381	gals
2. Site: UST Permit #: Gallons Produced:					
Former Royal Petroleum		19426	325		
Johnnie's Market		08986	0.5		
3. Highway 11		03439	165		
Highway 11		03439	175		
Highway 11		03439	200		
4. BJ's Wholesale Club		18529	200		
BJ's Wholesale Club		18529	175		
Littleton's Grocery		18574	160		
Littleton's Grocery		18574	175		
Lena Quick Shop		14483	175		
13. Special Handling		Bank of America	19190	150	
		Rogers Auto Parts	00428	0	
		Pantry 3418	05042	150	
		Nix's Service Station	14793	150	
		Pantry 3236	02872	150	
		Former Adams Oil	19416	150	
		UST Unkown	18678	200	
14. GENERATOR'S OFFICE		Colonel Creek	11702	250	
		Great Falls Exxon	14469	130	
		Cleland's One Stop	5273	175	
		Bay Creek Villas	18662	125	
15. International		<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____	
Transporter Signature (for exports only):		Date leaving U.S.: _____			
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name		Signature	Month	Day	Year
Steve A. Gamble		Steve A. Gamble	4	20	11
Transporter 2 Printed/Typed Name		Signature	Month	Day	Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____ U.S. EPA ID 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



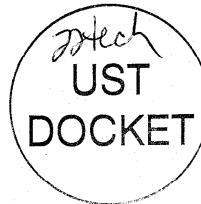


April 13, 2011

Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439-CA #40894
MECI Project Number 11-3223E
Certified Site Rehabilitation Site Contractor UCC-0009



Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on April 11 & 12, 2011. The event was conducted on monitoring wells MW-1, RW-1 and RW-2 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in the wells prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 9.18 pounds or approximately 1.59 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.15 pounds per hour. Concentrations of off gas produced during the event were recorded from 722 parts per million by volume (PPM) to 2,257 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 12.0 to 15.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1E.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29013
Telephone: (803) 208-2043 • fax: (803) 208-2048

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

A total of 175 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,

Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1E
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223E
SCDHEC SITE ID NUMBER 03439**

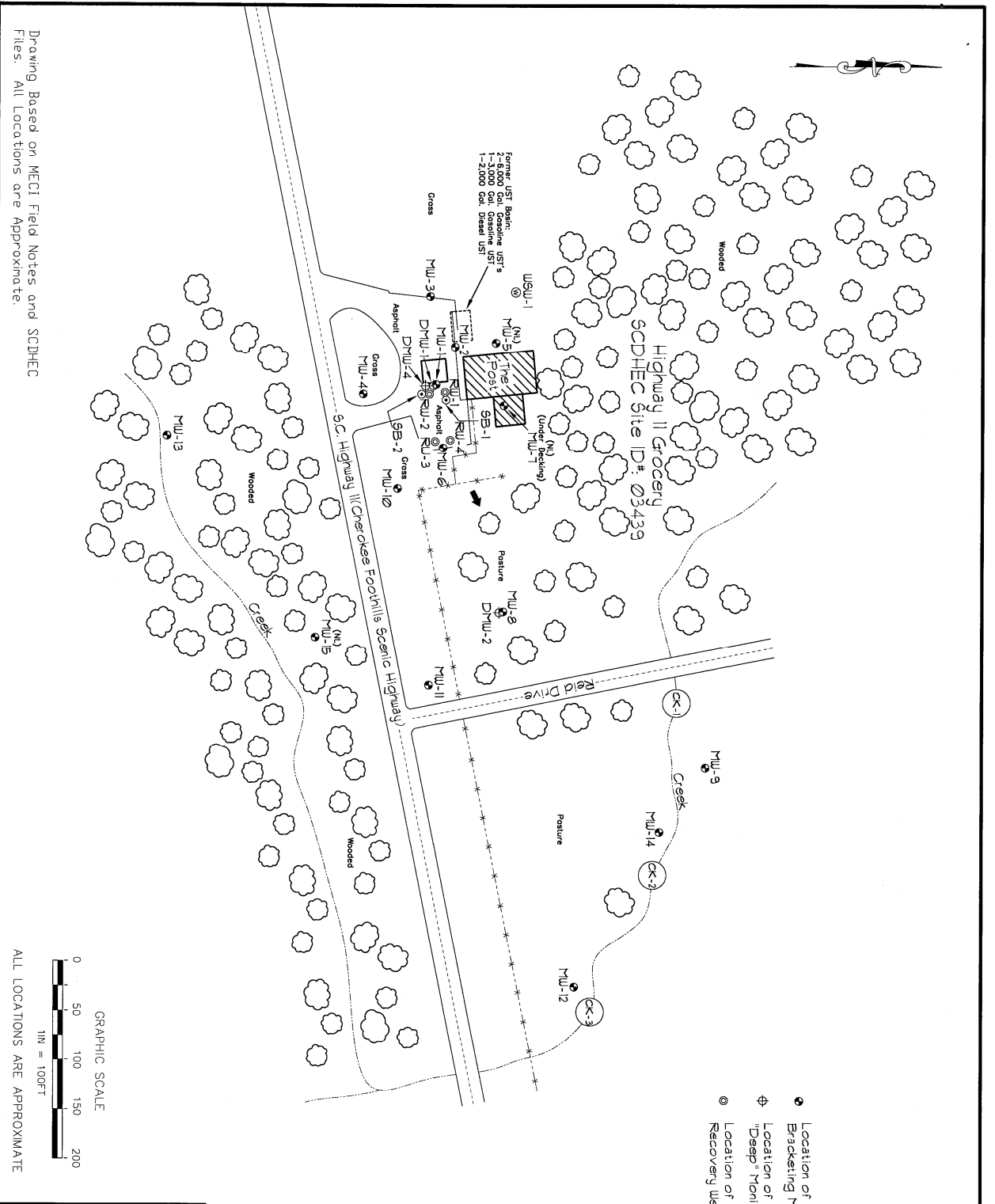
Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	
MW-1	04/11/11	18:45	0.50	12.0	884	940	84.60	0.90	0.45
RW-1	04/11/11	19:15	0.50	12.0	1,192	1,250	112.50	1.61	0.80
RW-2	04/11/11	19:45	0.50	12.0	1,385	1,220	109.80	1.82	0.91
	04/11/11	20:15	0.50	12.0	944	1,190	107.10	1.21	0.61
	04/11/11	20:45	0.50	12.0	1,087	1,020	91.80	1.20	0.60
	04/11/11	21:15	0.50	12.0	1,014	920	82.80	1.01	0.50
	04/11/11	21:45	0.50	12.0	987	890	80.10	0.95	0.47
	04/11/11	22:15	0.50	15.0	2,257	670	60.30	1.63	0.82
	04/11/11	22:45	0.50	15.0	2,122	640	57.60	1.47	0.73
	04/11/11	23:15	0.50	15.0	2,048	630	56.70	1.39	0.70
	04/11/11	23:45	0.50	15.0	1,970	600	54.00	1.28	0.64
	04/12/11	00:15	0.50	15.0	1,564	580	52.20	0.97	0.49
	04/12/11	0:45	0.50	15.0	1,335	560	50.40	0.81	0.40
	04/12/11	1:15	0.50	15.0	1,313	550	49.50	0.78	0.39
	04/12/11	1:45	0.50	15.0	987	530	47.70	0.56	0.28
	04/12/11	2:15	0.50	15.0	722	480	39.60	0.34	0.17
	04/12/11	2:45	0.50	15.0	814	480	43.20	0.42	0.21
									TOTAL
									9.18

Well No.	Diameter (in)	Well Data:		Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
		Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	
MW-1	2"	15-30	***	24.02	***	23.40	***	-0.62
RW-1	4"	10-30	***	24.13	***	23.90	***	-0.23
RW-2	4"	10-30	***	23.45	***	24.52	***	1.07

Vacuum Truck Information		Recovery / Disposal Information	
Subcontractor:	MECI	Stinger Depth	9.18 Pounds
Truck Operator:	C. Lashley	24.50	0 Gallons
Stack I.D. (feet)	0.33 feet	24.00	1.59 Equivalent Gallons
			75 g /mole
			TK Tank Services, Inc.
			175 Gallons
			Total Liquids Removed:

**TABLE 2E
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223E
SCDHEC SITE ID NUMBER 03439**

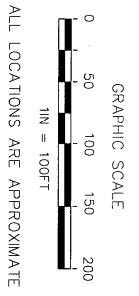
DIFFERENTIAL PRESSURE DATA				
		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-1	RW-2	RW-2
Approximate Distance:		40 ft	65 ft	100 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
18:45	0.0	0	0	0
19:15	0.5	0	0	0
19:45	1.0	0	0	0
20:15	1.5	0	0	0
20:45	2.0	0	0	0
21:15	2.5	0	0	0
21:45	3.0	0	0	0
22:15	3.5	0	0	0
22:45	4.0	0	0	0
23:15	4.5	0	0	0
23:45	5.0	0	0	0
00:15	5.5	0	0	0
0:45	6.0	0	0	0
1:15	6.5	0	0	0
1:45	7.0	0	0	0
2:15	7.5	0	0	0
2:45	8.0	0	0	0
Maximum Change:		0	0	0
GROUNDWATER DRAWDOWN DATA				
		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-1	RW-2	RW-2
Approximate Distance:		40 ft	65 ft	100 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		25.70	21.93	18.55
22:45	4 hours	25.71	21.96	18.55
2:45	8 hours	25.72	21.98	18.55
Maximum Change:		-0.02	-0.05	0.00



Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Recovery Well
- ⊙ Location of Water Supply Well
- ⬇ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

- ⊙ Location of Soil Test Boring
- Fence
- Creek
- ⊙ Location of Surface Water Sample Collection



Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
Midlands Environmental Consultants, Inc.	
JOB NO. 0-2090	DATE: January 5, 2010
PROJECT	2

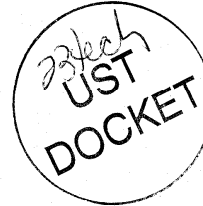
NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)			TK10317	
Generator's Phone:		MIDLANDS ENVIRONMENTAL 114 TWO NOTCH ROAD LEXINGTON, SC 29073				
6. Transporter 1 Company Name		U.S. EPA ID Number		TK TANK SERVICE		
7. Transporter 2 Company Name		U.S. EPA ID Number		SUMTER, SC		
8. Designated Facility Name and Site Address		U.S. EPA ID Number		TK TANK SERVICES 405 BOULEVARD ROAD SUMTER, SC 29153		
Facility's Phone:		803-418-5314		803-775-7567		
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		No.	Type	3,381	gallons
	2. Site: UST Permit #: Gallons Produced:					
	Former Royal Petroleum		19426	325		
	Johnnie's Market		08986	0.5		
	3. Highway 11		03439	165		
	Highway 11		03439	175		
	Highway 11		03439	200		
	4. BJ's Wholesale Club		18529	200		
	BJ's Wholesale Club		18529	175		
	Littleton's Grocery		18574	160		
	Littleton's Grocery		18574	175		
	13. Special Handling		Lena Quick Shop	14483	175	
			Bank of America	19190	150	
			Rogers Auto Parts	00428	0	
		Pantry 3418	05042	150		
		Nix's Service Station	14793	150		
		Pantry 3235	02872	150		
		Former Adams Oil	19416	150		
		UST Unknown	18678	200		
		Colonel Creek	11702	250		
14. GENERATOR'S OFFICE		Great Falls Exxon	14469	130		
		Cleland's One Stop	5273	175		
		Bay Creek Villas	18662	125		
		Instructions for reporting proper disposal of Hazardous Waste.				
		Month	Day	Year		
15. International		<input type="checkbox"/> Import to U.S.		<input type="checkbox"/> Export from U.S.		
16. Transporter Acknowledgment of Receipt of Materials		Port of entry/exit:		Date leaving U.S.:		
Transporter Signature (for exports only):		Signature		Month Day Year		
Steve A. Gamble		Steve A. Gamble		4 20 11		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
17. Discrepancy						
17a. Discrepancy Indication Space		<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
17b. Alternate Facility (or Generator)		Manifest Reference Number:		U.S. EPA ID Number		
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)		Month Day Year				
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name		Signature		Month Day Year		





April 15, 2011

Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223F
Certified Site Rehabilitation Site Contractor UCC-0009

Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on April 13, 2011. The event was conducted on monitoring well MW-8 to remove free phase petroleum product. Free phase petroleum product was detected in MW-8 at a thickness of 0.37 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 8.22 pounds or approximately 1.42 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.03 pounds per hour. Concentrations of off gas produced during the event were recorded from 184 parts per million by volume (PPM) to 4,180 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 6.0 to 23.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1F.

Post Office Box 254, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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


A total of 200 gallons of liquid was removed from MW-8 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.


QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.


Gavin G. Globensky
Staff Biologist


Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1F
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223F
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Libs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/HR	
MW-8	04/13/11	13:30	0.50	6.0	1,330	1,190	107.10	1.71	0.85
	04/13/11	14:00	0.50	6.0	184	1,250	112.50	0.25	0.12
	04/13/11	14:30	0.50	13.0	307	880	79.20	0.29	0.15
	04/13/11	15:00	0.50	17.0	529	600	54.00	0.34	0.17
	04/13/11	15:30	0.50	21.0	1,021	410	36.90	0.45	0.23
	04/13/11	16:00	0.50	22.0	1,823	400	36.00	0.79	0.39
	04/13/11	16:30	0.50	23.0	2,797	400	36.00	1.21	0.60
	04/13/11	17:00	0.50	23.0	3,863	400	36.00	1.67	0.83
	04/13/11	17:30	0.50	23.0	4,180	400	36.00	1.81	0.90
	04/13/11	18:00	0.50	23.0	3,678	400	36.00	1.59	0.79
	04/13/11	18:30	0.50	23.0	3,546	400	36.00	1.53	0.77
	04/13/11	19:00	0.50	21.0	1,868	410	36.90	0.83	0.41
	04/13/11	19:30	0.50	15.0	1,194	650	58.50	0.84	0.42
	04/13/11	20:00	0.50	9.0	589	1,110	99.90	0.71	0.35
	04/13/11	20:30	0.50	9.0	880	1,100	99.00	1.05	0.52
04/13/11	21:00	0.50	9.0	533	1,100	99.00	0.63	0.32	
04/13/11	21:30	0.50	9.0	631	1,110	99.90	0.76	0.38	
TOTAL									8.22

Well No.	Diameter (in)	Well Data:		Pre AFVR Event	Post AFVR Event	Corrected Depth to Water Change (ft)
		Screened Interval (ft)	Depth to Product (ft)			
MW-8	2"	15-30	20.39	20.76	21.66	1.21
Vacuum Truck Information		Well ID	Slinger Depth	Recovery / Disposal Information		
Subcontractor: MECI		MW-8	22.00	0.37	8.22	Pounds
Truck Operator: R.Avall				0.37	0	Gallons
Stack ID (feet) 0.33 feet				0.37	1.42	Equivalent Gallons
Corrected depth to water before AFVR Event in MW-8 =			20.45	0.37	75	g / mole
				0.37	200	TK Tank Services, Inc. Gallons
				0.37		Total Liquids Removed:

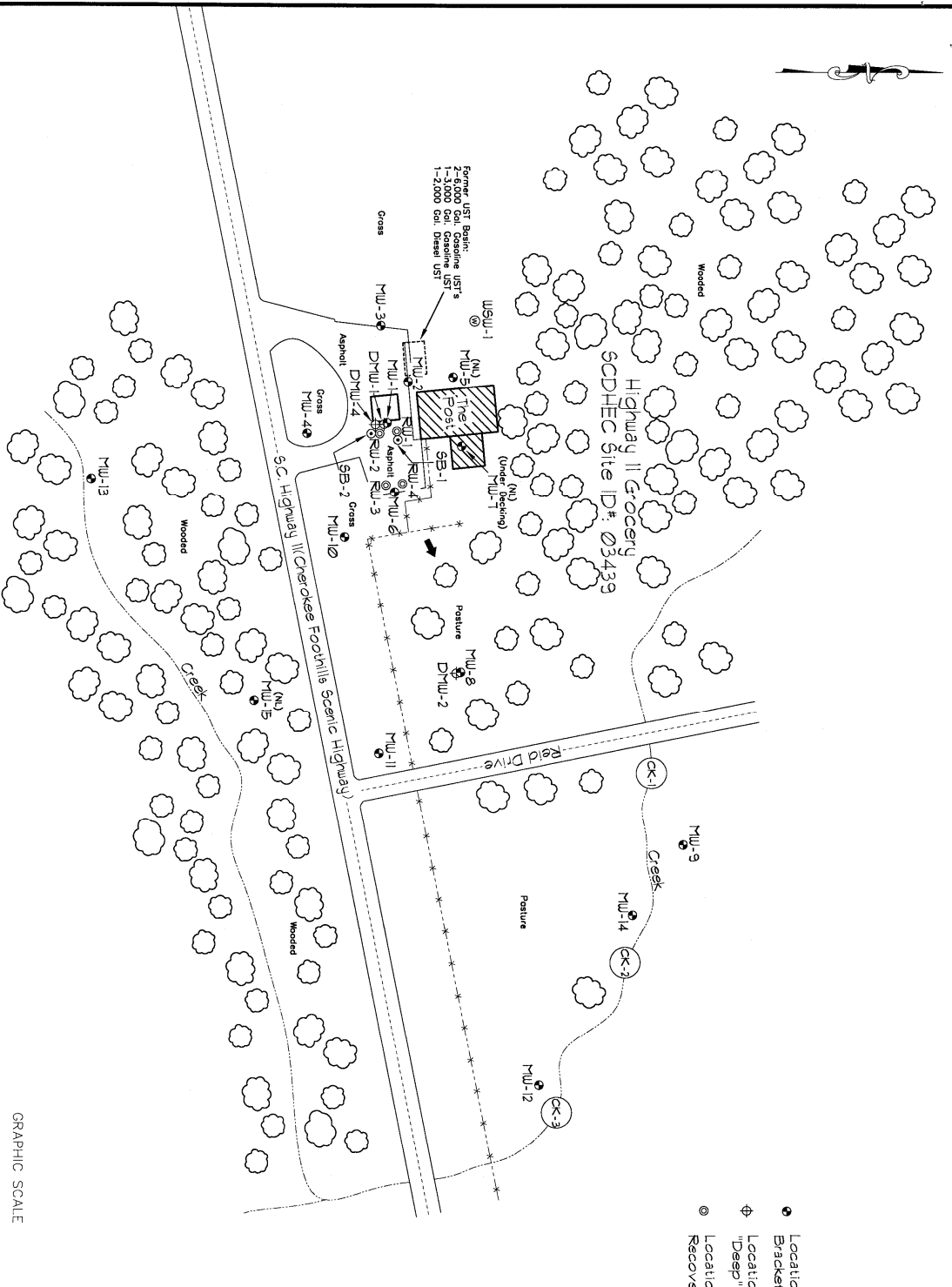
TABLE 2F
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223F
SCDHEC SITE ID NUMBER 03439

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-6	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		175 ft	165 ft	105 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
13:30	0.0	0	0	0
14:00	0.5	0	0	0
14:30	1.0	0	0	0
15:00	1.5	0	0	0
15:30	2.0	0	0	0
16:00	2.5	0	0	0
16:30	3.0	0	0	0
17:00	3.5	0	0	0
17:30	4.0	0	0	0
18:00	4.5	0	0	0
18:30	5.0	0	0	0
19:00	5.5	0	0	0
19:30	6.0	0	0	0
20:00	6.5	0	0	0
20:30	7.0	0	0	0
21:00	7.5	0	0	0
21:30	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-6	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		175 ft	165 ft	105 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
	Prior to AFVR	20.95	18.55	15.31
17:30	4 hours	20.94	18.57	15.30
21:30	8 hours	20.94	18.58	15.32
Maximum Change:		0.01	-0.03	-0.02

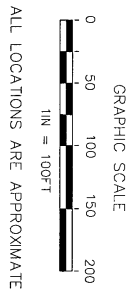


Explanation:

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

- (CK-1) Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- Fence
- Fence
- Creek

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

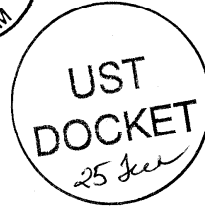


Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
Midlands Environmental Consultants, Inc.	
JOB NO. 10-3096	DATE January 5, 2010
FIGURE	2

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address) TK10317			
<p style="text-align: center;">MIDLANDS ENVIRONMENTAL 1134 TWO NOTCH ROAD LEXINGTON, SC 29073</p>					
Generator's Phone:		6. Transporter 1 Company Name		U.S. EPA ID Number	
		TK TANK SERVICE		287577557	
7. Transporter 2 Company Name		SUNTER, SC		U.S. EPA ID Number	
8. Designated Facility Name and Site Address		U.S. EPA ID Number			
TK TANK SERVICES 425 BOULEVARD ROAD SUNTER, SC 29153					
Facility's Phone:		803-418-5714		287577557	
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		No.	Type	3,381	gallons
2. Site: UST Permit #: Gallons Produced:					
Former Royal Petroleum 19426 325					
Johnnie's Market 08986 0.5					
3. Highway 11 03439 165					
Highway 11 03439 175					
Highway 11 03439 200					
4. BJ's Wholesale Club 18529 200					
BJ's Wholesale Club 18529 175					
Littleton's Grocery 18574 160					
Littleton's Grocery 18574 175					
13. Special Handling					
Lena Quick Shop 14483 175					
Bank of America 19190 150					
Rogers Auto Parts 00428 0					
Pantry 3418 05042 150					
Nix's Service Station 14793 150					
Pantry 3235 02872 150					
Former Adams Oil 19416 150					
UST Unknown 18678 200					
14. GENERATOR'S OFF					
Colonel Creek 11702 250					
Great Falls Exxon 14469 130					
Cleland's One Stop 5273 175					
Bay Creek Villas 18662 125					
15. International		<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:	
Transporter Signature (for exports only):		Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name		Signature		Month	Day
Steve A. Gamble		Steve A. Gamble		4	20
Transporter 2 Printed/Typed Name		Signature		Month	Day
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: 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



June 6, 2011



Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223G
Certified Site Rehabilitation Site Contractor UCC-0009

Dear Mr. Smith,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on May 18 and 19, 2011. The event was conducted on monitoring wells MW-1, RW-1, and RW-2 to remove free phase petroleum product and reduce dissolved CoC concentrations. Free phase petroleum product was detected in MW-1 at a thickness of 0.02 feet and in RW-2 at a thickness of 0.32 feet prior to the AFVR event. Free phase petroleum product was not detected in monitoring well RW-1 prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was detected in RW-2 at a thickness of 0.05 feet immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 8.51 pounds or approximately 1.47 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.06 pounds per hour. Concentrations of off gas produced during the event were recorded from 527 parts per million by volume (PPM) to 1,269 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 13.0 to 15.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1G.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

A total of 150 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was detected in monitoring well RW-2 at a thickness of 0.05 feet following the AFVR event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1G
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223G
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements			Removal Rate Lbs/hr	Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM		
MW-1	05/18/11	20:00	0:50	13.0	527	1,050	94.50	0.30	
RW-1	05/18/11	20:30	0:50	13.0	579	1,120	100.80	0.35	
RW-2	05/18/11	21:00	0:50	13.0	668	1,170	106.30	0.42	
	05/18/11	21:30	0:50	13.0	743	1,160	104.40	0.47	
	05/18/11	22:00	0:50	13.0	672	1,110	99.90	0.40	
	05/18/11	22:30	0:50	15.0	928	890	80.10	0.45	
	05/18/11	23:00	0:50	15.0	1,052	860	77.40	0.49	
	05/18/11	23:30	0:50	15.0	1,127	870	78.30	0.53	
	05/19/11	0:00	0:50	15.0	1,190	850	76.50	0.55	
	05/19/11	0:30	0:50	15.0	1,241	880	79.20	0.59	
	05/19/11	1:00	0:50	15.0	1,187	890	80.10	0.57	
	05/19/11	1:30	0:50	14.0	1,269	1,020	91.80	0.70	
	05/19/11	2:00	0:50	14.0	1,157	1,030	92.70	0.64	
	05/19/11	2:30	0:50	14.0	1,114	1,050	94.50	0.63	
	05/19/11	3:00	0:50	14.0	982	1,060	97.20	0.57	
	05/19/11	3:30	0:50	14.0	773	1,100	99.00	0.46	
	05/19/11	4:00	0:50	14.0	647	1,120	100.80	0.39	
								TOTAL	8.51

Well No.	Diameter (in)	Well Data:		Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
		Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	
MW-1	2"	15-30	24.43	24.45	0.02	24.65	24.65	0.22
RW-1	4"	10-30	***	24.58	***	***	24.58	0.10
RW-2	4"	10-30	23.78	24.10	0.32	24.20	24.25	0.42
Vacuum Truck Information								
Subcontractor:	MECI	Well ID	25.00	Stinger Depth	25.00	Recovery / Disposal Information	8.51	Pounds
Truck Operator:	G. Gohensky	RW-1	25.00	Hydrocarbons Removed (vapor):	0	Gallons	0	Gallons
Stack I.D. (feet)	0.33	RW-2	25.00	Total Hydrocarbons Removed:	1.47	g / mole	1.47	Equivalent Gallons
Molecular Weight Utilized:								
Disposal Facility								
TK Tank Services, Inc.								
Total Liquids Removed:								
150 Gallons								

Corrected depth to water before AFVR Event in MW-1 =
Corrected depth to water before AFVR Event in RW-2 =

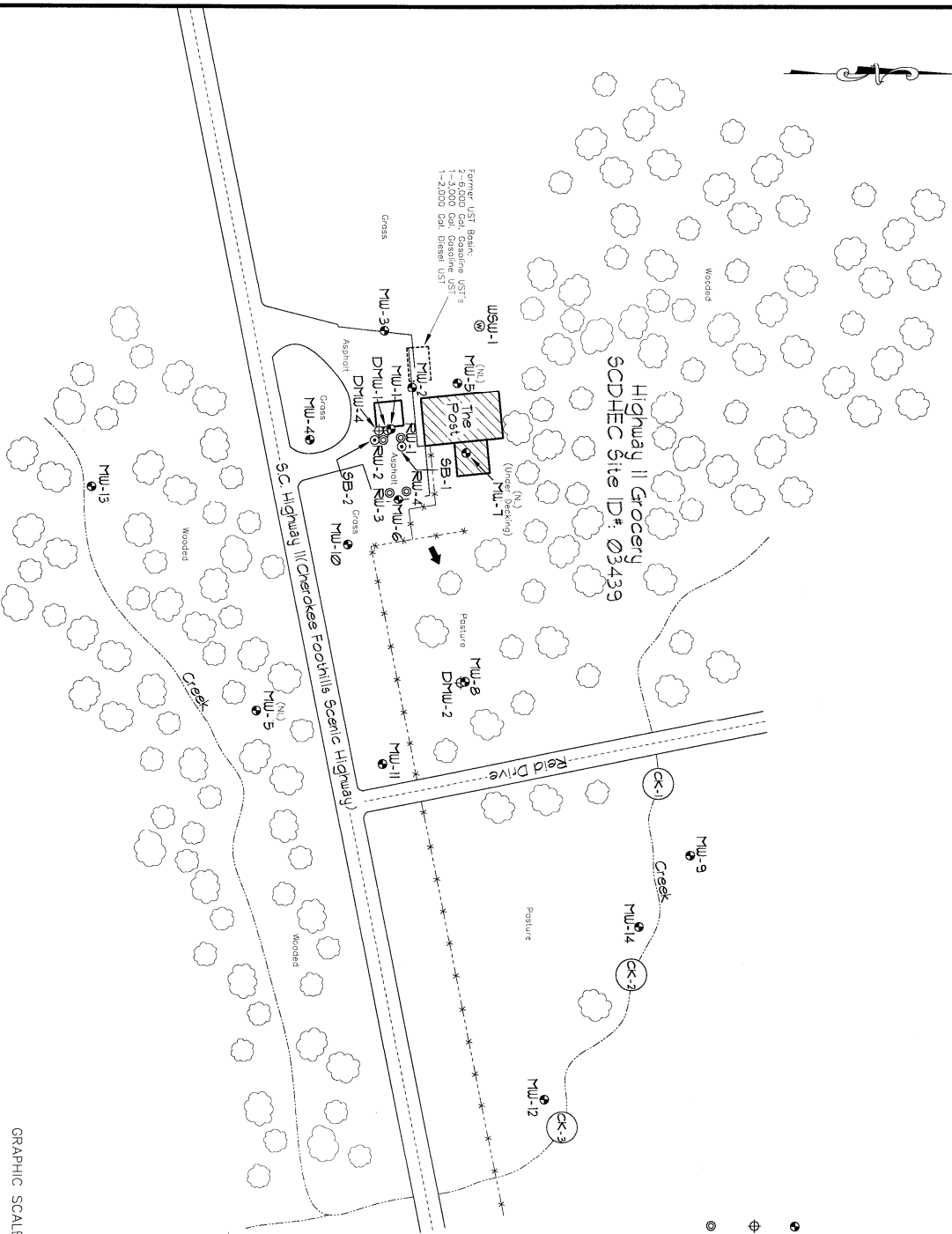
**TABLE 2G
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223G
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-1	RW-2	RW-1
Approximate Distance:		43 ft	68 ft	109 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
20:00	0.0	0	0	0
20:30	0.5	0	0	0
21:00	1.0	0	0	0
21:30	1.5	0	0	0
22:00	2.0	0	0	0
22:30	2.5	0	0	0
23:00	3.0	0	0	0
23:30	3.5	0	0	0
0:00	4.0	0	0	0
0:30	4.5	0	0	0
1:00	5.0	0	0	0
1:30	5.5	0	0	0
2:00	6.0	0	0	0
2:30	6.5	0	0	0
3:00	7.0	0	0	0
3:30	7.5	0	0	0
4:00	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

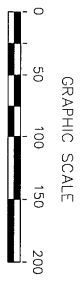
		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-1	RW-2	RW-1
Approximate Distance:		43 ft	68 ft	109 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		26.01	22.79	19.30
0:00	4 hours	26.07	22.82	19.32
4:00	8 hours	26.05	22.81	19.31
Maximum Change:		0.06	0.03	0.02



Explanation:

- ⊕ Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊕ Recovery Well
- ⊕ Location of Water Supply Well
- ⊕ Estimated Groundwater Flow Direction
- ⊕ Estimated Location of Removed Underground Storage Tanks

- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- Fence
- Creek



ALL LOCATIONS ARE APPROXIMATE

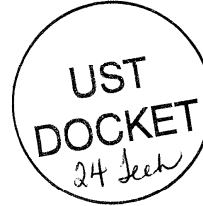
Site Features	
Highway 11 Grocery Salem, South Carolina SCDHEC Site ID #03439	
	JOB NO. 10-3090 DATE January 5, 2010 PAGE 2

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 1810-024
5. Generator's Name and Mailing Address RICHARDS ENVIRONMENTAL 1144 TWO NOTCH ROAD LEXINGTON, SC 29073		Generator's Site Address (if different than mailing address)			
Generator's Phone:		6. Transporter 1 Company Name TK TANK SERVICE SUMTER, SC		U.S. EPA ID Number 887575557	
		7. Transporter 2 Company Name		U.S. EPA ID Number	
8. Designated Facility Name and Site Address TK TANK SERVICES 125 BOULEVARD ROAD SUMTER, SC 29153				U.S. EPA ID Number	
Facility's Phone: 6740		803-418-5314		887575557	
9. Waste Shipping Name and Description NON HAZARDOUS PETROLEUM CONTAMINATED WATER		10. Containers		11. Total	12. Unit
		No.	Type	Quantity	Wt./Vol.
		1	TT	4100	gal/MS
Site: UST Permit #: Gallons Produced: Littleton's Grocery 18574 175 Highway 11 Grocery 03439 150 Littleton's Grocery 18574 175 Highway 11 Grocery 03439 150 Davis Site 15120 100 Louis Brown 05751 150 Rock Hill Maintenance 09160 75 Chester School Bus 02044 175 Royal Petroleum 19426 325 Town of Winnsboro 14433 100 Highway 11 Grocery 03439 175 Former Adams Oil 19416 150 Former Krispy Kreme 19387 150 Pantry 3418 05042 175 Pinkney Road Property 19380 100 Copeland's Service 05694 225 Burrow's Service Station 12487 525 BB&T 19443 125 EZ Stop 14555 150 Phillips Rental Property 19328 100 Brown Brothers 04145 150 Pelzer Gas Mart 00480 175 Ancrum 01617 200 Former Minute Saver 19340 125		subject to federal regulations for reporting proper disposal of Hazardous Waste. Signature _____ Month _____ Day _____ Year _____ Port from U.S. _____ Port of entry/exit: _____ Date leaving U.S.: _____			
13. 8					
14. G					
15. H					
16. T					
17. Discrepancy					
17a. Discrepancy Indication Space		<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection			
17b. Alternate Facility (or Generator)		Manifest Reference Number:		U.S. EPA ID Number	
Facility's Phone:				Month _____ Day _____ Year _____	
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 _____	



June 6, 2011



Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223H
Certified Site Rehabilitation Site Contractor UCC-0009

Dear Mr. Smith,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on May 18 and 19, 2011. The event was conducted on monitoring wells MW-6, RW-3, and RW-4 to remove free phase petroleum product and reduce dissolved CoC concentrations. Free phase petroleum product was detected in MW-6 at a thickness of 0.01 feet prior to the AFVR event. Free phase petroleum product was not detected in RW-3 and RW-4 prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 1.83 pounds or approximately 0.32 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.23 pounds per hour. Concentrations of off gas produced during the event were recorded from 33.3 parts per million by volume (PPM) to 226 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 5.0 to 9.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1H.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

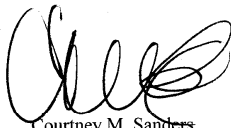
A total of 150 gallons of liquid was removed from MW-6, RW-3, and RW-4 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brandon E. Kelly
Project Scientist

Attachments:

**TABLE 1H
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223H
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements			Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	
MW-6	05/18/11	20:30	0.50	5.0	166	2,410	216.90	0.43
RW-3	05/18/11	21:00	0.50	5.0	34.6	2,350	211.50	0.09
RW-4	05/18/11	21:30	0.50	9.0	139	1,960	176.40	0.29
	05/18/11	22:00	0.50	9.0	131	1,940	174.60	0.27
	05/18/11	22:30	0.50	9.0	115	1,850	166.50	0.23
	05/18/11	23:00	0.50	9.0	226	1,910	171.90	0.47
	05/18/11	23:30	0.50	8.0	106	2,100	189.00	0.24
	05/19/11	0:00	0.50	7.0	101	2,160	194.40	0.24
	05/19/11	0:30	0.50	5.0	42.2	2,490	224.10	0.11
	05/19/11	1:00	0.50	5.0	40.8	2,450	220.50	0.11
	05/19/11	1:30	0.50	5.0	40.7	2,440	219.60	0.11
	05/19/11	2:00	0.50	5.0	62.2	2,410	216.90	0.16
	05/19/11	2:30	0.50	5.0	87.4	2,290	206.10	0.22
	05/19/11	3:00	0.50	5.0	93.2	2,440	219.60	0.25
	05/19/11	3:30	0.50	5.0	94.8	2,510	225.90	0.26
	05/19/11	4:00	0.50	5.0	33.3	2,500	225.00	0.09
	05/19/11	4:30	0.50	5.0	33.3	2,510	225.90	0.09
								TOTAL
								1.83

Well No.	Diameter (in)	Well ID	Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
			Depth to Product (ft)	Depth to Water (ft)	Depth to Product (ft)	Depth to Water (ft)	
MW-6	2"	20-35	21.53	21.54	21.79	0.26	
RW-3	4"	10-30	***	21.80	***	0.19	
RW-4	4"	10-30	***	22.42	22.71	0.29	

Vacuum Truck Information		Recovery / Disposal Information	
Subcontractor:	Truck Operator:	Product Thickness (ft)	Product Thickness (ft)
MECI	R. Arrial	0.01	***
Stack I.D. (feet)	0.33 feet	***	***

Corrected depth to water before AFVR Event in MW-6 = 21.53

Disposal Facility: TK Tank Services, Inc.
Total Liquids Removed: 150 Gallons

Hydrocarbons Removed (Vapor): 1.83 Pounds
Hydrocarbons Removed (liquid): 0 Gallons
Total Hydrocarbons Removed: 0.32 Equivalent Gallons
Molecular Weight Utilized: 75 g / mole

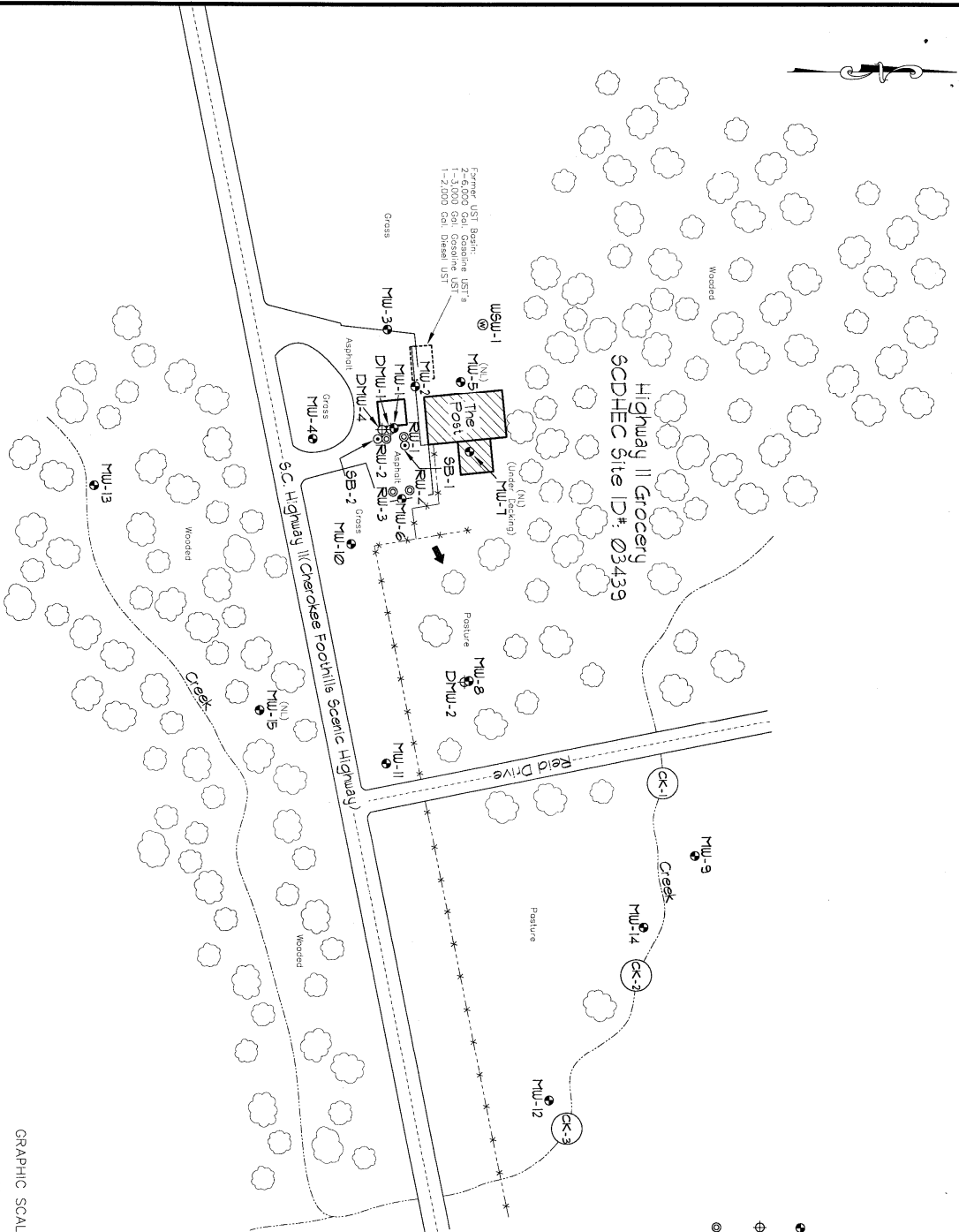
**TABLE 2H
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223H
SCDHEC SITE ID NUMBER 03439**

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-6	RW-3	RW-4
Approximate Distance:		103 ft	88 ft	73 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
20:30	0.0	0	0	0
21:00	0.5	0	0	0
21:30	1.0	0	0	0
22:00	1.5	0	0	0
22:30	2.0	0	0	0
23:00	2.5	0	0	0
23:30	3.0	0	0	0
0:00	3.5	0	0	0
0:30	4.0	0	0	0
1:00	4.5	0	0	0
1:30	5.0	0	0	0
2:00	5.5	0	0	0
2:30	6.0	0	0	0
3:00	6.5	0	0	0
3:30	7.0	0	0	0
4:00	7.5	0	0	0
4:30	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

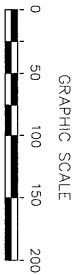
		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-6	RW-3	RW-4
Approximate Distance:		103 ft	88 ft	73 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		26.01	22.79	19.30
0:30	4 hours	26.07	22.82	19.32
4:30	8 hours	26.05	22.81	19.31
Maximum Change:		0.06	0.03	0.02



Explanation:

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

- ⊙ Location of Soil Test Boring
- Location of Surface Water Sample Collection
- fence — Fence
- - - creek - - - Creek



ALL LOCATIONS ARE APPROXIMATE

Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
	Midlands Environmental Consultants, Inc.
JOB NO. 10-3090	DATE January 5, 2010
FIGURE 2	

Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

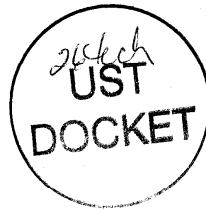
NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number IND-004
5. Generator's Name and Mailing Address RIDLANDS ENVIRONMENTAL 1144 TWO NOTCH BOON LEXINGTON, SC 29073		Generator's Site Address (if different than mailing address)			
Generator's Phone:		6. Transporter 1 Company Name TK TANK SERVICE SUMTER, SC		U.S. EPA ID Number 887573557	
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address TK TANK SERVICES 425 BOULEVARD ROAD SUMTER, SC 29153		U.S. EPA ID Number		887573557	
Facility's Phone: 6340		803-418-5314			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
NON-HAZARDOUS PETROLEUM CONTAMINATED WATER		No.	Type		
		1	TT	4100	gal/m3
Site: UST Permit #: Gallons Produced:					
Littleton's Grocery 18574 .175					
Highway 11 Grocery 03439 150					
Littleton's Grocery 18574 175					
Highway 11 Grocery 03439 150					
Davis Site 15120 100					
Louis Brown 05751 150					
Rock Hill Maintenance 09160 75					
Chester School Bus 02044 175					
Royal Petroleum 19426 325					
Town of Winnsboro 14433 100					
13. Highway 11 Grocery 03439 175					
Former Adams Oil 19416 150					
Former Krispy Kreme 19367 150					
Pantry 3418 05042 175					
Pinkney Road Property 19380 100					
Copeland's Service 05694 225					
Burrow's Service Station 12487 525					
14. BB&T 19443 125					
EZ Stop 14555 150					
14. G Phillips Rental Property 19328 100					
Brown Brothers 04145 150					
15. ii Pelzer Gas Mart 00480 175					
Achorum 01617 200					
16. i Former Minute Saver 19340 125					
Transporter 1 Printed/Typed Name Steve A. Gamble		Signature Steve A. Gamble		Month 6	Day 3
Transporter 2 Printed/Typed Name		Signature		Month	Day
17. Discrepancy					
17a. Discrepancy Indication Space					
<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)		Manifest Reference Number:			
Facility's Phone:		U.S. EPA ID Number			
17c. Signature of Alternate Facility (or Generator)		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



June 6, 2011



Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223I
Certified Site Rehabilitation Site Contractor UCC-0009

Dear Mr. Smith,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on May 24, 2011. The event was conducted on monitoring wells MW-6, RW-3, and RW-4 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring wells MW-6, RW-3 and RW-4 prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 4.70 pounds or approximately 0.81 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.59 pounds per hour. Concentrations of off gas produced during the event were recorded from 192 parts per million by volume (PPM) to 989 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 8.0 to 15.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 11.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

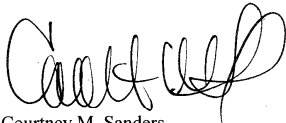
A total of 175 gallons of liquid was removed from MW-6, RW-3, and RW-4 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist

Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 11
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-32231
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hr:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	
MW-6	05/24/11	11:00	0.50	15.0	989	800	72.00	0.85	0.43
RW-3	05/24/11	11:30	0.50	15.0	943	840	75.60	0.86	0.43
RW-4	05/24/11	12:00	0.50	15.0	912	830	74.70	0.82	0.41
	05/24/11	12:30	0.50	15.0	963	1,010	90.90	1.05	0.53
	05/24/11	13:00	0.50	15.0	987	1,000	90.00	1.07	0.53
	05/24/11	13:30	0.50	10.0	429	1,410	126.90	0.65	0.33
	05/24/11	14:00	0.50	10.0	351	1,430	128.70	0.54	0.27
	05/24/11	14:30	0.50	9.0	292	1,490	134.10	0.47	0.23
	05/24/11	15:00	0.50	9.0	259	1,490	134.10	0.42	0.21
	05/24/11	15:30	0.50	9.0	217	1,500	135.00	0.35	0.18
	05/24/11	16:00	0.50	8.0	213	1,530	137.70	0.35	0.18
	05/24/11	16:30	0.50	8.0	210	1,510	135.90	0.34	0.17
	05/24/11	17:00	0.50	8.0	208	1,520	136.80	0.34	0.17
	05/24/11	17:30	0.50	8.0	204	1,520	136.80	0.33	0.17
	05/24/11	18:00	0.50	8.0	198	1,500	135.00	0.32	0.16
	05/24/11	18:30	0.50	8.0	192	1,520	136.80	0.32	0.16
	05/24/11	19:00	0.50	8.0	196	1,510	135.90	0.32	0.16
TOTAL									4.70

Note: Due to water table change, stinger depth was re-adjusted on May 24, 2010. (see below)

Well No.	Diameter (in)	Well Date	Screened Interval (ft)	Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
				Depth to Product (ft)	Depth to Water (ft)	Depth to Product (ft)	Depth to Water (ft)	
MW-6	2"		20-35	***	21.55	***	21.94	0.39
RW-3	4"		10-30	***	21.83	***	22.07	0.24
RW-4	4"		10-30	***	22.43	***	22.81	0.38

Vacuum Truck Information			
Well ID	Stinger Depth	Product Thickness (ft)	Product
MW-6	22.50	***	***
RW-3	22.50	***	***
RW-4	23.50	***	***

Recovery / Disposal Information			
Well No.	Depth to Product (ft)	Stinger Depth (ft) at 11:00	Stinger Depth (ft) at 14:30
MW-5	***	22.50	22.50
RW-3	***	22.50	22.50
RW-4	***	23.50	23.50

Well No.	Depth to Product (ft)	Stinger Depth (ft) at 11:00	Stinger Depth (ft) at 12:30	Stinger Depth (ft) at 14:30	Stinger Depth (ft) at 16:30
MW-5	***	22.50	21.50	22.50	23.50
RW-3	***	22.50	21.50	22.50	23.50
RW-4	***	23.50	22.50	23.50	24.50

Subcontractor: MECI
Truck Operator: B. Owen
Stack I.D. (feet): 0.33 feet

Hydrocarbons Removed (vapor): 4.70 Pounds
Hydrocarbons Removed (liquid): 0 Gallons
Total Hydrocarbons Removed: 0.81 Equivalent Gallons
Molecular Weight Utilized: 75 g / mole
Disposal Facility: TK Tank Services, Inc.
Total Liquids Removed: 175 Gallons

TABLE 2I
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223I
SCDHEC SITE ID NUMBER 03439

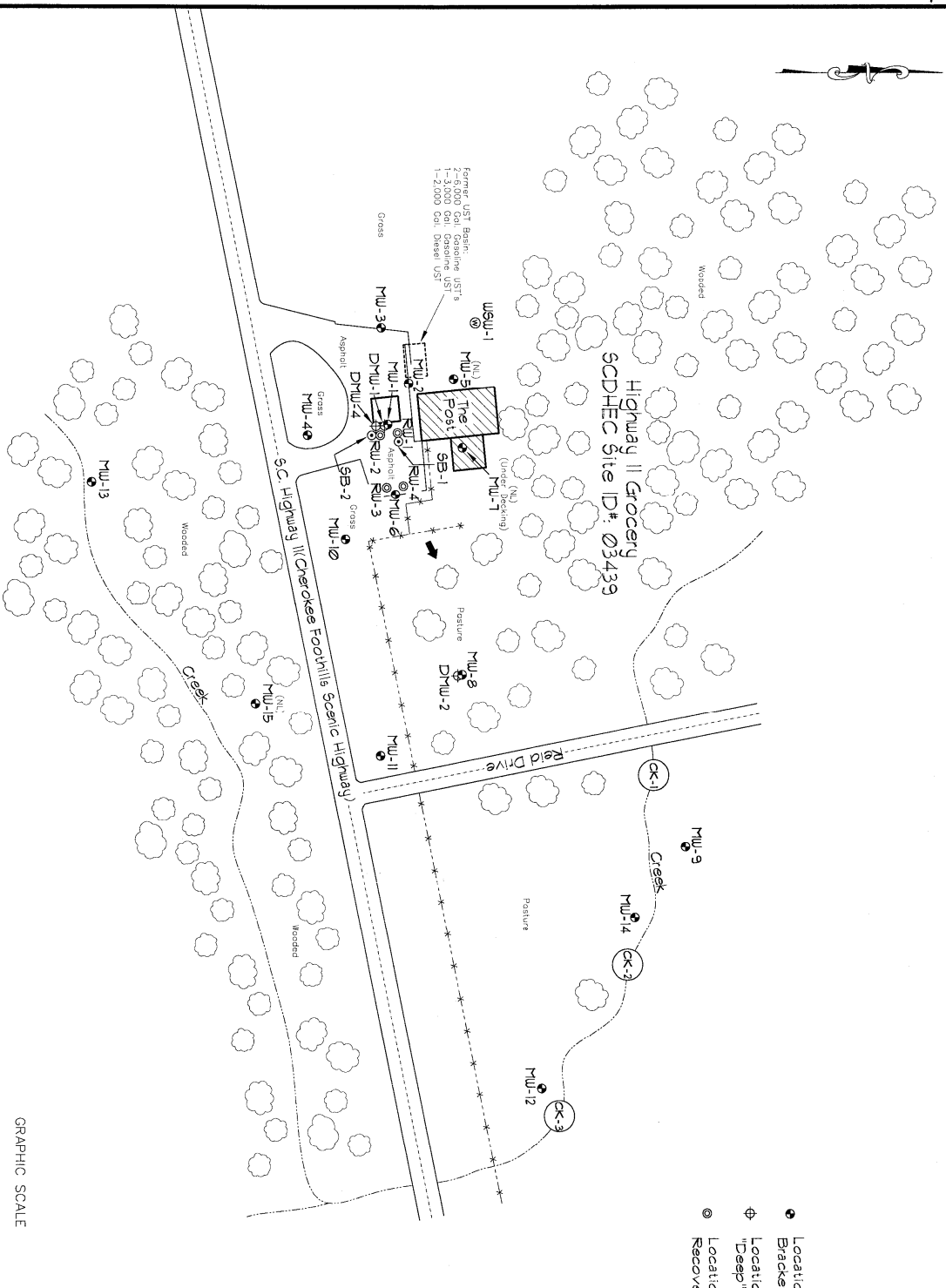
DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-6	RW-3	RW-4
Approximate Distance:		103 ft	88 ft	73 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
11:00	0.0	0	0	0
11:30	0.5	0	0	0
12:00	1.0	0	0	0
12:30	1.5	0	0	0
13:00	2.0	0	0	0
13:30	2.5	0	0	0
14:00	3.0	0	0	0
14:30	3.5	0	0	0
15:00	4.0	0	0	0
15:30	4.5	0	0	0
16:00	5.0	0	0	0
16:30	5.5	0	0	0
17:00	6.0	0	0	0
17:30	6.5	0	0	0
18:00	7.0	0	0	0
18:30	7.5	0	0	0
19:00	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	MW-4	MW-10
Nearest Extraction Well:		MW-6	RW-3	RW-4
Approximate Distance:		103 ft	88 ft	73 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
	Prior to AFVR	26.03	22.87	19.36
15:00	4 hours	26.05	22.87	19.35
19:00	8 hours	26.05	22.87	19.35
Maximum Change:		0.02	0.00	0.01

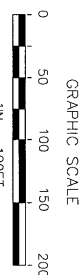
Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of 4-inch Recovery Well
- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- ⊙ Location of Water Supply Well
- ⊙ Estimated Groundwater Flow Direction
- ⊙ Estimated Location of Removed Underground Storage Tanks

- ⊙ Location of Fence
- Grns. --- Creek



ALL LOCATIONS ARE APPROXIMATE

Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
Midlands Environmental Consultants, Inc.	JOB NO. 10-2000 DATE February 5, 2010 FIGURE 2

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number 1511-1014
5. Generator's Name and Mailing Address RIDGEWOOD ENVIRONMENTAL 1144 TWO NOTCH BOOGE LEXINGTON, SC 29073 Generator's Site Address (if different than mailing address)					
Generator's Phone: _____					
6. Transporter 1 Company Name TK TANK SERVICE SUMTER, SC				U.S. EPA ID Number 87573557	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address TK TANK SERVICES 425 BOULEVARD ROAD SUMTER, SC 29153				U.S. EPA ID Number	
Facility's Phone: 803-418-5314 #87573557					
9. Waste Shipping Name and Description					
NON-HAZARDOUS PETROLEUM CONTAMINATED WATER					
10. Containers					
		No.	Type	11. Total Quantity	12. Unit Wt./Vol.
		1	TT	4100	gg/bas
13. Site: UST Permit #: Gallons Produced:					
Littleton's Grocery 18574 175					
Highway 11 Grocery 03439 150					
Littleton's Grocery 18574 175					
Highway 11 Grocery 03439 150					
Davis Site 15120 100					
Louis Brown 05751 150					
Rock Hill Maintenance 09160 75					
Chester School Bus 02044 175					
Royal Petroleum 19426 325					
Town of Winnsboro 14433 100					
Highway 11 Grocery 03439 175					
Former Adams Oil 19416 150					
Former Krispy Kreme 19367 150					
Pantry 3418 05042 175					
Pinkney Road Property 19360 100					
Copeland's Service 05694 225					
Burrow's Service Station BB&T 12487 525					
EZ Stop 19443 125					
Phillips Rental Property 14555 150					
Brown Brothers 04145 150					
Pelzer Gas Mart 00480 175					
Ancrum 01617 200					
Former Minute Saver 19340 125					
14. Subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Signature _____ Month _____ Day _____ Year _____					
15. Port of entry/exit: _____					
Date leaving U.S.: _____					
16. T					
Transporter 1 Printed/Typed Name Steve A. Gamble				Signature Steve A. Gamble Month _____ Day _____ Year _____	
Transporter 2 Printed/Typed Name				Signature Month _____ Day _____ Year _____	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____ U.S. EPA ID Number _____					
17b. Alternate Facility (or Generator)					
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 _____					

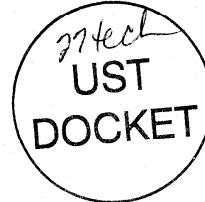


June 22, 2011

Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Aggressive Fluid Vapor Recovery Report
Highway 11 Grocery
Salem, South Carolina
SCDHEC Site ID # 03439; CA #40894
MECI Project Number 11-3223J
Certified Site Rehabilitation Site Contractor UCC-0009



Dear Mr. Padgett,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Highway 11 Grocery on June 21, 2011. The event was conducted on monitoring well MW-8 to remove free phase petroleum product. Free phase petroleum product was detected in MW-8 at a thickness of 0.68 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 10.35 pounds or approximately 1.79 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.29 pounds per hour. Concentrations of off gas produced during the event were recorded from 752 parts per million by volume (PPM) to 1,763 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 18.0 to 21.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1J.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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


A total of 125 gallons of liquid was removed from MW-8 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

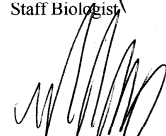
The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

**TABLE 1J
AFVR MONITORING DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223J
SCDHEC SITE ID NUMBER 03439**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements			Removal Rate Lbs/Hr	Interval Removal Lbs
					Concentration (PPM)	Offgas Velocity F/Min	Flow Rate CFM		
MW-8	06/21/11	10:30	0.50	20.0	1,609	860	77.40	1.49	0.75
	06/21/11	11:00	0.50	20.0	1,763	930	83.70	1.77	0.89
	06/21/11	11:30	0.50	20.0	1,547	1,000	90.00	1.67	0.84
	06/21/11	12:00	0.50	20.0	1,502	1,050	94.50	1.70	0.85
	06/21/11	12:30	0.50	20.0	1,488	1,120	100.80	1.76	0.88
	06/21/11	13:00	0.50	20.0	1,204	1,140	102.60	1.48	0.74
	06/21/11	13:30	0.50	21.0	1,327	910	81.90	1.30	0.65
	06/21/11	14:00	0.50	21.0	1,293	800	72.00	1.12	0.56
	06/21/11	14:30	0.50	21.0	1,215	740	66.60	0.97	0.49
	06/21/11	15:00	0.50	21.0	1,041	670	60.30	0.75	0.38
	06/21/11	15:30	0.50	21.0	986	700	63.00	0.75	0.37
	06/21/11	16:00	0.50	21.0	932	720	64.80	0.72	0.36
	06/21/11	16:30	0.50	18.0	846	1,170	105.30	1.07	0.53
	06/21/11	17:00	0.50	18.0	819	1,190	107.10	1.05	0.53
	06/21/11	17:30	0.50	18.0	752	1,220	109.80	0.99	0.50
	06/21/11	18:00	0.50	18.0	771	1,230	110.70	1.02	0.51
	06/21/11	18:30	0.50	18.0	794	1,250	112.50	1.07	0.54
	TOTAL									10.35

Well No.	Well Data:		Pre AFVR Event		Post AFVR Event		Corrected Depth to Water Change (ft)
	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Product Thickness (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-8	2"	15-30	21.55	0.68	22.23	23.61	1.96
Vacuum Truck Information							
Subcontractor: MECI							
Truck Operator: G. Giobensky							
Stack I.D. (feet): 0.33 feet							
Corrected depth to water before AFVR Event in MW-8 = 21.65							
Recovery/Disposal Information							
Hydro carbons Removed (vapor): 10.35 Pounds							
Hydro carbons Removed (liquid): 0 Gallons							
Total Hydrocarbons Removed: 1.79 Equivalent Gallons							
Molecular Weight Utilized: 75 g / moe							
Disposal Facility: TK Tank Services, Inc.							
Total Liquids Removed: 125 Gallons							

**TABLE 2J
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
HIGHWAY 11 GROCERY
SALEM, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3223J
SCDHEC SITE ID NUMBER 03439**

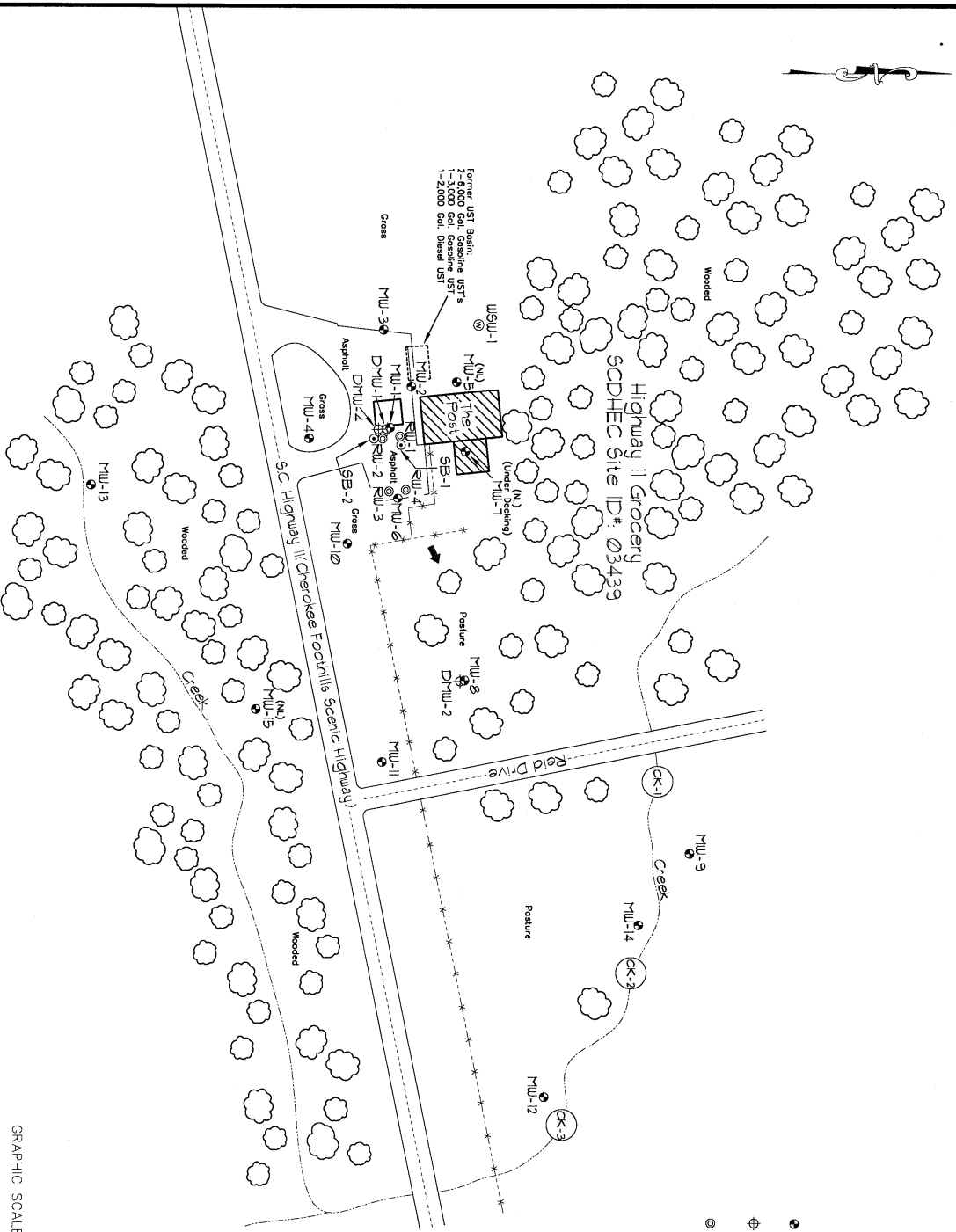
DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-4	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		262 ft	165 ft	105 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
10:30	0.0	0	0	0
11:00	0.5	0	0	0
11:30	1.0	0	0	0
12:00	1.5	0	0	0
12:30	2.0	0	0	0
13:00	2.5	0	0	0
13:30	3.0	0	0	0
14:00	3.5	0	0	0
14:30	4.0	0	0	0
15:00	4.5	0	0	0
15:30	5.0	0	0	0
16:00	5.5	0	0	0
16:30	6.0	0	0	0
17:00	6.5	0	0	0
17:30	7.0	0	0	0
18:00	7.5	0	0	0
18:30	8.0	0	0	0
Maximum Change:		0	0	0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-4	MW-10	MW-11
Nearest Extraction Well:		MW-8	MW-8	MW-8
Approximate Distance:		262 ft	165 ft	105 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR		23.88	20.41	17.70
14:30	4 hours	23.88	20.41	17.70
18:30	8 hours	23.88	20.41	17.70
Maximum Change:		0.00	0.00	0.00

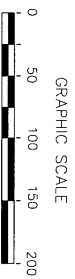
Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.



Explanation:

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

- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- Fence
- Fence
- Creek



ALL LOCATIONS ARE APPROXIMATE

Site Features	
Highway II Grocery Salem, South Carolina SCDHEC Site ID 03439	
Midlands Environmental Consultants, Inc.	
JOB NO. 10-3090 DATE January 3, 2010 FIGURE	2

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number TK 1046-1																																																																																				
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address) MIDLANDS ENVIRONMENTAL 1199 TWO NOTCH ROAD LEXINGTON, SC 29073																																																																																							
Generator's Phone:		6. Transporter 1 Company Name TK TANK SERVICE		U.S. EPA ID Number 287573557																																																																																					
		7. Transporter 2 Company Name		U.S. EPA ID Number																																																																																					
8. Designated Facility Name and Site Address		TK TANK SERVICES 125 BOULEVARD ROAD SUMNER, SC 29153		U.S. EPA ID Number																																																																																					
Facility's Phone:		803-418-5314		287573557																																																																																					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.																																																																																				
		No.	Type																																																																																						
NON HAZARDOUS PETROLEUM CONTAMINATED WATER		1	TT	3776	Gallons																																																																																				
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Site</th> <th>ID#</th> <th>Gallons</th> <th>Site</th> <th>ID#</th> <th>Gallons</th> </tr> </thead> <tbody> <tr><td>Bulk Plant</td><td>14052</td><td>200</td><td>Blythewood S & S</td><td>10503</td><td>150</td></tr> <tr><td>Bulk Plant</td><td>14052</td><td>175</td><td>York Co. SBS</td><td>9164</td><td>155</td></tr> <tr><td>Lena Quick Stop</td><td>14483</td><td>125</td><td>Midway Service</td><td>13046</td><td>100</td></tr> <tr><td>H&H Transfer</td><td>17195</td><td>125</td><td>Burrow's Service</td><td>12487</td><td>400</td></tr> <tr><td>Gregory's Store</td><td>8979</td><td>225</td><td>Quick Mart 34</td><td>7003</td><td>150</td></tr> <tr><td>Former McCoy Oil</td><td>19002</td><td>100</td><td>Quick Mart 34</td><td>7003</td><td>100</td></tr> <tr><td>Bay Creek Villas</td><td>18662</td><td>250</td><td>Phillips Rental Prop.</td><td>19328</td><td>40</td></tr> <tr><td>Bay Creek Villas</td><td>18662</td><td>250</td><td>Movie Gallery</td><td>19077</td><td>150</td></tr> <tr><td>EZ Stop</td><td>6097</td><td>1</td><td>King Property</td><td>14821</td><td>150</td></tr> <tr><td>Mack's Camp</td><td>1253</td><td>125</td><td>Highway 11 Grocery</td><td>3439</td><td>125</td></tr> <tr><td>Pratt's Grocery</td><td>6974</td><td>150</td><td>Former Adams Oil</td><td>19416</td><td>125</td></tr> <tr><td>Ben Altman</td><td>6216</td><td>200</td><td>Clamps BP</td><td>11412</td><td>300</td></tr> <tr><td>Venters Grocery</td><td>9081</td><td>125</td><td></td><td></td><td></td></tr> </tbody> </table>						Site	ID#	Gallons	Site	ID#	Gallons	Bulk Plant	14052	200	Blythewood S & S	10503	150	Bulk Plant	14052	175	York Co. SBS	9164	155	Lena Quick Stop	14483	125	Midway Service	13046	100	H&H Transfer	17195	125	Burrow's Service	12487	400	Gregory's Store	8979	225	Quick Mart 34	7003	150	Former McCoy Oil	19002	100	Quick Mart 34	7003	100	Bay Creek Villas	18662	250	Phillips Rental Prop.	19328	40	Bay Creek Villas	18662	250	Movie Gallery	19077	150	EZ Stop	6097	1	King Property	14821	150	Mack's Camp	1253	125	Highway 11 Grocery	3439	125	Pratt's Grocery	6974	150	Former Adams Oil	19416	125	Ben Altman	6216	200	Clamps BP	11412	300	Venters Grocery	9081	125			
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14. disposal of Hazardous Waste. Month Day Year																																																																																									
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:																																																																																									
16. Transporter Acknowledgment of Receipt of Materials																																																																																									
Transporter 1 Printed/Typed Name		Signature		Month	Day																																																																																				
STEVEN A. GAMBLE		STEVEN A. GAMBLE		6	23																																																																																				
Transporter 2 Printed/Typed Name		Signature		Month	Day																																																																																				
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Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800.377.2826
803.788.2535
Fax 788.2399

RECEIVED

SEP 26 2001

Underground Storage
Tank Program

28-Tech

September 25, 2001

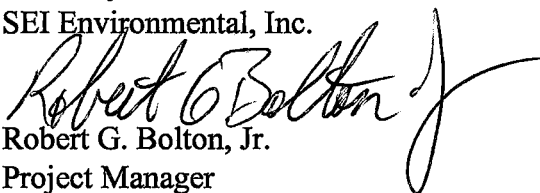
Mr. Konstantine Akhvlediani, Hydrogeologist
SCDHEC - UST Program
Bureau of Land And Waste Management
2600 Bull Street
Columbia, South Carolina 29201

RE: Tier II Assessment Report
Highway 11 Grocery
UST Permit #03439
Oconee County

Dear Mr. Akhvlediani:

Attached is the Tier II Assessment Report for Highway 11 Grocery. Should you have any questions or require additional information, please contact me at 788-2535.

Sincerely,
SEI Environmental, Inc.


Robert G. Bolton, Jr.
Project Manager

Attachment

cc: Mr. Steve Smith, Highway 11 Grocery

TIER II ASSESSMENT REPORT

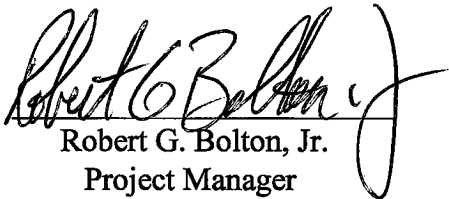
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
Oconee County
UST Permit #03439

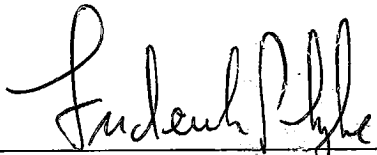
PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
180 Shallowford Road
Salem, South Carolina

PREPARED BY:

SEI Environmental, Inc.
3021 McNaughton Drive, Suite 9
Columbia, South Carolina 29223
(803) 788-2535


Robert G. Bolton, Jr.
Project Manager


Frederick P. Lyke, P.G. #1055

September 25, 2001

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1.0 INTRODUCTION

Mr. Steve Smith contracted SEI Environmental, Inc. (SEI) to conduct a Tier II Assessment at the Highway 11 Grocery facility located at 13527 South Carolina Highway 11 near Salem, South Carolina. A site location map is presented as Figure 1. The assessment activities were approved by SCDHEC in correspondence to Mr. Smith dated May 24, 2001. A site location map is presented as Figure 1.

1.1 Regional Geology

Salem is located in the Piedmont Geologic Province of South Carolina. Specifically, the Inner Piedmont belt of this province is beneath the subject property. This belt is characterized by medium to high grade metamorphic rocks such as granitic gneiss, mica schist, sillimanite schist, and amphibolite. Structural features of the Inner Piedmont belt include recumbent folds and nappes (Fairey, 1977).

1.2 Regional Hydrogeology

The Piedmont Geologic Province is underlain by granitic and slate-like rocks that contain numerous fractures. These rocks are mantled by a layer of soil and weathered rock, commonly known as saprolite. Groundwater is commonly found in the lower part of the soil zone where the saprolite is common and in the rock fractures located in the upper portions of the bedrock. Specifically, groundwater in this section of the Piedmont can occur in either the clayey, sandy soils, and weathered rock (saprolite) or the bedrock that is located beneath the above mentioned strata.

2.0 METHODOLOGY

2.1 Previous Assessment Activities

Due to the presence of a petroleum sheen and odors existing in the creek located hydraulically down-gradient from the subject property, SCDHEC requested that an assessment be completed at Highway 11 Grocery to determine if the sheen and odors were originating from the subject property. SEI installed two (2) Type II groundwater monitor wells (identified as MW-1 and MW-2) on March 29, 2001. Groundwater laboratory results from these wells identified the presence of elevated petroleum hydrocarbons at these two wells. As a result, a Tier II Assessment was required. During the current assessment activities, ten (10) Type II groundwater wells (identified as MW-3 through MW-12) and one (1) Type III groundwater monitor well (identified as DMW-1) were installed. In addition, eleven (11) soil borings (identified as SB-1 through SB-9, SB-11, and SB-12) were conducted.

2.2 Soil Boring and Field Screening Activities

On July 9-11, 2001, SEI personnel performed eight (8) soil borings (identified as SB-1 through SB-8) with a truck mounted CME-75 drill rig. Borings SB-1 and SB-4 were performed to an approximate depth of 4 feet below ground surface (bgs) due to rock, and Boring SB-2 was performed to an approximate depth of 10 feet bgs. Boring SB-3 was performed to an approximate depth of 32 feet bgs; Boring SB-5 was performed to an approximate depth of 25 feet bgs; and Boring SB-6 was performed to an approximate depth of 33 feet bgs. Borings SB-7 and SB-8 were performed to an approximate depth of 35 feet bgs each. Specifically, Boring SB-1 was performed near the dispenser island; Borings SB-2 and SB-4 were performed along the product lines; Boring SB-5 was performed adjacent to the UST basin. Boring SB-6 was performed west of the UST basin, and Boring SB-3 was performed south of the dispenser island. Boring SB-7 was performed northeast of the dispenser island, and Boring SB-8 was performed

southeast of the dispenser island. Borings SB-6, SB-7, and SB-8 were used as field screening locations, and soil samples were not collected for laboratory analysis from these locations. However, samples from these field screening locations were collected for soil lithology. Soil sample locations are depicted in Figure 2, and lithologic descriptions are presented in Appendix A.

On August 20, 2001, SEI personnel performed three (3) soil borings (identified as SB-9, SB-11, and SB-12) with a truck mounted CME-45 drill rig. Borings SB-9, SB-11, and SB-12 were performed to an approximate depth of 24 feet bgs, 18 feet bgs, and 14 feet bgs, respectively. Specifically Borings SB-9 and SB-11 were performed southeast of the dispenser island, and Boring SB-12 was performed northeast of the dispenser islands. These borings were used as field screening locations, and soil samples were not collected for laboratory analysis from these locations. However, samples from these borings were collected for soil lithology. Soil sample locations are depicted in Figure 2, and lithologic descriptions are presented in Appendix A.

2.3 Monitor Well Installation

A truck mounted CME-75 drill rig installed seven (7) Type II groundwater monitor wells (identified as MW-3 through MW-8 and MW-10) and one (1) Type III groundwater monitor well (identified as DMW-1) on July 9-12, 2001. A truck mounted CME-45 drill rig installed one (1) Type II groundwater monitor well (identified as MW-12) on August 20, 2001, and a truck mounted CME-75 drill rig installed two (2) Type II groundwater monitor wells (identified as MW-9 and MW-11) on August 23, 2001. Monitor Wells MW-3 and MW-8 were installed to an approximate depth of 30 feet bgs each. Monitor Wells MW-4, MW-5, and MW-6 were each installed to an approximate depth of 35 feet bgs. Monitor Well MW-7 was installed to an approximate depth of 40 feet bgs. Monitor Wells MW-9 and MW-12 were each installed to an approximate depth of 12 feet bgs. Monitor Well MW-10 was installed to an approximate depth of 28 feet bgs, and Monitor Well MW-11 was installed to an approximate depth of 23 feet bgs.

Monitor Well DMW-1 was installed to an approximate depth of 45 feet bgs. Specifically, Monitor Well MW-3 was installed in the hydraulically up-gradient direction from Monitor Well MW-1. Monitor Wells MW-4, MW-5, and MW-7 were installed in the hydraulically lateral direction from Monitor Well MW-1. Monitor Wells MW-6, MW-8, and MW-12 were installed in the hydraulically down-gradient direction from Monitor Well MW-1. Monitor Well MW-9 was also installed in the hydraulically down-gradient direction from Monitor Well MW-1 but across Fall Creek from the other wells. Monitor Wells MW-10 and MW-11 were installed in the grassy ditch along SC Highway 11 which is in the hydraulically lateral and down-gradient direction from Monitor Well MW-1. Soil samples were obtained for laboratory analysis during the installation of Monitor Wells MW-3 through MW-8 and DMW-1. However, soil samples were collected for lithologic descriptions during all monitor well installations. Monitor well locations are depicted in Figure 2.

The monitor wells are constructed of 2-inch diameter, Schedule 40, flush threaded PVC well casing with factory slotted (0.01-inch opening) Schedule 40 PVC well screen attached. Each Type II monitor well is constructed with the top of the well screen above the water table to allow for detection of potential free-phase liquid hydrocarbon. A uniformly graded silica filter pack was installed in the annular space from total depth to approximately 0.5 to 2.0 feet above the top of the screen and followed by approximately 0.5 to 2.0 feet of bentonite pellets, which were hydrated. The remainder of the boring was grouted to land surface. All monitor wells were completed with a water tight, locking PVC cap, protected by a flush finished concrete pad with a 9-inch diameter steel, traffic rated manhole with a bolt down cover. Following installations, each monitor well was developed with a clean, centrifugal pump to remove any fine materials that may impede the flow of groundwater into the well. Monitor Well DMW-1 was similarly constructed with the exception of a six-inch diameter outer casing set on top of rock at a depth of 28 feet bgs. Air rotary techniques were used to drill through the outer casing and complete the well (from approximately 28 to 45 feet bgs) the following day. Monitor well construction details and lithologic descriptions are presented in Appendix A.

2.4 Site Geology

Visual analysis of subsurface soils collected from field screening activities and monitor well installations conducted as part of this assessment indicated the soil types ranging from soft silty sand to rock. The maximum depth of the current investigation was approximately 45 feet bgs. A geologic transect map is provided as Figure 4, and geologic cross sections are provided as Figures 5 and 6.

2.5 Site Hydrogeology

During the August 27, 2001, gauging event, liquid phase hydrocarbons (LPH) were not detected in any monitor wells. Groundwater flow direction is toward the east and northeast with a hydraulic gradient of 0.0430 feet per foot as measured between Monitor Well MW-1 and the 60.00 ft. contour line. Groundwater measurements are summarized in Table I, and a groundwater elevation contour map is depicted in Figure 7.

2.6 Soil Organic Vapor Measurements

Soil organic vapor concentration measurements were performed on soil samples obtained during soil sampling events and monitor well installations with a Foxboro™ Model 128 OVA-FID. In addition, soil organic vapor concentration measurements were also performed on saturated soil samples collected during monitor well installations. The OVA-FID was compared with a known standard (i.e. methane at 96 ppm) each day before it was used. Results of this comparison are documented in Table II. Each soil sample was placed in a new, resealable, plastic bag and allowed to volatilize for a minimum of fifteen minutes. The OVA-FID probe was then inserted into the headspace of the bag, and the highest organic vapor reading observed was recorded for each sample. Organic vapor concentrations are recorded on the lithologic and monitor well construction logs.

2.7 Soil Sampling and Analysis

During the current assessment activities, soil samples were collected from Borings SB-1 through SB-5. In addition, soil samples were collected from Monitor Wells MW-3 through MW-8 and DMW-1. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The soil samples were placed in laboratory supplied containers, placed on ice, and delivered to TestAmerica Inc. in Columbia, South Carolina for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. All soil samples, with the exception of Sample DMW-1, were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and naphthalene by EPA method 8260B; and polynuclear aromatic hydrocarbons (PAH) by EPA method 8270C. The sample from Monitor Well MW-3 was also analyzed for fractional organic carbon. One sample from Monitor Well DMW-1 was analyzed for total petroleum hydrocarbons (TPH) by EPA method 3550, and an additional soil sample, collected from Monitor Well DMW-1, was delivered to Schnabel Engineering in West Columbia, South Carolina for grain size/hydrometer analysis.

2.8 Groundwater Sampling and Analysis

During the current assessment activities, SEI personnel obtained groundwater samples from Monitor Wells MW-3 through MW-12 and DMW-1. Monitor Wells MW-1 and MW-2 were sampled during the March 2001, assessment activities, but their results are also mentioned in this report. In addition, a groundwater sample was collected from the potable water well (identified as WW-1) located at the subject property. Surface water samples were collected from Fall Creek (identified as CK-1) located hydraulically down-gradient from the site and a tributary to Fall Creek (identified as CK-2) across SC Highway 11 from the site. A new, disposable, polyethylene bailer was used for the collection of the water samples from the monitor wells. Each sample was obtained after pH and temperature values had equilibrated unless petroleum odor was emanating from the well. If petroleum odors were observed in the monitor well, the

groundwater sample was obtained after three well volumes were purged. All purge water was drummed for proper disposal at a permitted treatment facility. Field measurements are presented in Appendix B. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and delivered to TestAmerica Inc. in Columbia, South Carolina for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. All groundwater samples were analyzed for BTEX, methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B; ethylene dibromide (EDB) by EPA method 8011; PAH by EPA method 8270C; and lead by EPA method 200.7. In addition, the samples were analyzed for methane by EPA method RSK175M; nitrate by EPA method 353.2; sulfate by EPA method 9056; and ferrous iron by EPA method 3500D.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Soil Results

Soil laboratory analytical results for the samples collected during the current assessment activities detected the presence of benzene and ethylbenzene concentrations at Sample MW-6. Toluene concentrations were detected at Samples SB-3 and MW-6. Xylenes concentrations were detected at Samples SB-1 through SB-4, MW-3, MW-4, and MW-6. Naphthalene concentrations were detected at Samples SB-1, SB-2, SB-3, MW-3, and MW-6. TPH concentrations were detected at Sample DMW-1; but TOC concentrations were not detected at Sample MW-3. Grain size analysis results, conducted at the soil sample obtained from Monitor Well DMW-1, indicated the soil type as sandy loam.

BTEX concentrations were not detected greater than their respective risk based screening levels (RBSL); but naphthalene concentrations were detected greater than its RBSL of 0.036 mg/kg at Sample SB-1. The risk based screening levels are those for sandy soil. Soil analytical results are

presented in Appendix A, and soil concentrations are depicted in Figures 8-19. Laboratory analyses and chain-of-custody are presented in Appendix B.

3.2 Groundwater Results

Groundwater analytical results for the samples collected during the current assessment activities detected the presence of benzene and ethylbenzene concentrations at Samples MW-1, MW-2, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, DMW-1, and CK-1. Toluene and xylenes concentrations were detected at Samples MW-1 through MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, DMW-1, and CK-1. MTBE concentrations were detected at Samples MW-1, MW-2, MW-4, MW-6, MW-8, MW-10, MW-11, MW-12, DMW-1, and CK-1. Naphthalene concentrations were detected at Samples MW-1, MW-2, MW-6, MW-8, MW-10, and DMW-1. It is probable that naphthalene concentrations exist at Sample MW-4, but a high dilution factor caused the results to be below detection limits. EDB concentrations and PAH constituents (other than naphthalene) were not detected at any sample locations. Methane concentrations were detected at Samples MW-9 and CK-1. Lead concentrations were detected at Samples MW-1 through MW-12 and DMW-1. Ferrous iron concentrations were detected at Samples MW-3 through MW-12, DMW-1, CK-1, and CK-2. Nitrate concentrations were detected at Samples MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-11, MW-12, CK-1, CK-2, and WW-1. Sulfate concentrations were detected at Samples MW-4, MW-9, MW-11, MW-12, DMW-1, CK-1, and CK-2.

Benzene concentrations were detected greater than its RBSL of 5 µg/l at Samples MW-1, MW-2, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, DMW-1, and CK-1. Toluene concentrations were detected greater than its RBSL of 1000 µg/l at Samples MW-1, MW-4, MW-6, MW-8, MW-10, and DMW-1. Ethylbenzene concentrations were detected greater than its RBSL of 700 µg/l at Samples MW-1, MW-4, MW-6, and MW-8. Xylenes concentrations were detected greater than its RBSL of 10000 µg/l at Samples MW-6 and MW-8. MTBE concentrations were

detected greater than its RBSL of 40 µg/l at Samples MW-1, MW-2, MW-4, MW-6, MW-8, MW-10, MW-11, DMW-1, and CK-1. Naphthalene concentrations were detected greater than its RBSL of 25 µg/l at Samples MW-1, MW-6, MW-8, MW-10, and DMW-1. Lead concentrations were detected greater than its RBSL of 0.015 mg/l at all sample locations except DMW-1, CK-1, CK-2, and WW-1. Groundwater analytical results are presented in Appendix A, and groundwater concentrations are depicted in Figures 20 through 36. Laboratory analyses and chain-of-custody are presented in Appendix C.

4.0 TIER II EVALUATION

Because dissolved petroleum hydrocarbon concentrations in groundwater, detected as part of this assessment, exceed current RBSL criteria, a Tier II Evaluation is warranted.

4.1 Establishment of Exposure Points

During the current assessment activities, SEI personnel performed a receptor survey for the subject property. This survey detected the presence of one potable water well, identified as WW-1, on the subject property and another potable water well is located approximately 500 feet northeast of the site. There are no restrictions regarding the installation of potable wells in Oconee County. Fall Creek is located approximately 200 feet northeast of the site, and a tributary to Fall Creek is located approximately 150 feet south of the site. No other ponds, lakes, or bodies of water were identified within a 1000 feet radius of the site. A utility location map is provided as Figure 3. A summary of current and future land uses is presented in Appendix D.

4.2 Establishment of SSTL

Based on the current assessment activities, petroleum impacted soil is limited to the southern side of the UST basin, dispenser area, Monitor Wells MW-3, MW-4, and MW-6. Because BTEX and

naphthalene soil concentrations are greater than their respective RBSLs in the dispenser area, the soil leachability model was performed as part of this assessment. The site specific threshold levels (SSTLs) for BTEX and naphthalene, that were calculated with the soil leachability model, are 0.003 mg/kg, 1.115 mg/kg, 1.055 mg/kg, 54.095 mg/kg, and 0.328 mg/kg, respectively. Soil concentrations exist greater than one or more calculated SSTLs at Samples SB-1, MW-1, and MW-2. Soil leachability model results are presented in Appendix E.

The SSTLs of chemicals of concern (COC) in the saturated zone have been determined using collected data from this Tier II Assessment. The worst case concentrations occurred in Monitor Well MW-8, and these concentrations were used as the worst case concentration in the calculation of the SSTL. Sample CK-1 is the point of compliance as it is located hydraulically down-gradient from the worst case concentration. COC concentrations at Monitor Wells MW-1, MW-6, MW-8, MW-10, and DMW-1 for benzene. Other COC concentrations at the sample locations do not exceed the respective calculated SSTLs.

Petroleum Constituent	MW-8 Worst Case Concentration (µg/l)	CK-1 Concentration (µg/l)	Contamination Reduction Factor	RBSL (µg/l)	SSTL (µg/l)
Benzene	17,100	53.4	320.22	5	1,601.1
Toluene	34,400	78.0	441.03	1,000	441,030
Ethylbenzene	3,060	15.2	201.32	700	140,924
Xylenes	14,800	77.8	190.23	10,000	1,902,300
MTBE	47,000	46.7	1006.42	40	40,256.8
Naphthalene	500	<5.0	100	25	2,500
EDB	<0.02	<0.02	1.0	5	5

4.3 Fate Transport

Groundwater flow velocity (V) was calculated from the August 27, 2001, gauging event and from the slug test activities conducted during the current assessment activities. During the slug test events, hydraulic conductivity (K) was calculated to be 0.171 feet per day, 0.410 feet per day, and 9.36 feet per day for Monitor Wells MW-3, MW-6, and DMW-1, respectively. The hydraulic conductivity (K) value of 106.03 feet per year was calculated as the average K value determined from the slug tests events for Monitor Wells MW-3 and MW-6. The hydraulic gradient (i) from the August 27, 2001, gauging event, as measured between Monitor Well MW-1 and the 60.00 ft. contour line is 0.0430 feet per foot. Porosity (n) was assumed to be 35% for sandy loam soil. Groundwater flow velocity ($V=Ki/n$) was estimated at 13.03 feet per year, where $K = 106.03$ feet per year and $i = 0.0430$ feet per foot. The slug test data is presented in Appendix F.

BIOSCREEN Natural Attenuation Decision Support System (1996) was utilized to determine fate transport of benzene concentrations. The use of this model assumes that the plume has reached equilibrium. Fate transport of benzene was calculated due to its mobility and elevated concentrations at the site. Data used in this model is illustrated in Appendix G. Seepage velocity of 13.03 feet per year, as calculated above, was used for hydrogeology data. Dispersion data was determined from an estimated plume length of 600 feet. Adsorption values were calculated from specific site data. The 1st order decay coefficient values were substituted in a trial and error method to determine the value that best matches observed site concentrations.

The worse case dissolved concentration of benzene (5,700 $\mu\text{g/l}$) detected in the groundwater on the subject property was determined by sampling Monitor Well MW-6. A 1st order decay coefficient of 0.35 per year provided the best fit to current site conditions for benzene, assuming the release occurred in 2000. Using data from the one year plume centerline calculations, consecutive plume centerline analyses were also run to determine the maximum distance and

time for benzene migration. The result of these plume centerline analyses illustrates that the maximum migration of the highest benzene concentration will occur approximately 25 years after the release date at a distance of approximately 375 feet to less than 450 feet down-gradient from Monitor Well MW-6. The down-gradient points used in the fate transport model are MW-8 and CK-1. Data for benzene is provided as Figures 1a, 1b, and 1c in Appendix G.

A similar process was also followed for toluene, ethylbenzene, xylenes, and naphthalene. Using current data and source area concentrations from Monitor Well MW-6, 1st order decay coefficients of 9.0, 1.1, 4.5, and 0.98 per year were found to best represent current conditions for these compounds respectively. Data for these compounds is provided in Appendix G as Figures 2 through 5, respectively. Consecutive plume centerline analyses conducted for toluene, xylenes, and naphthalene indicated that the maximum migration distance of these compounds has already occurred at a distance of 0 to less than 75 feet from Monitor Well MW-6. Consecutive plume centerline analyses conducted for ethylbenzene indicated that the maximum migration distance of this compound will occur approximately 8 years from the release date at a distance of 75 feet to less than 150 feet from Monitor Well MW-6.

5.0 CONCLUSIONS AND RECOMMENDATIONS

- Groundwater flow at the site is in a northeastern direction with a hydraulic gradient of 0.0430 feet per foot as measured between Monitor Well MW-1 and the 60.00 ft. contour line.
- Liquid phase hydrocarbons were not detected in any monitor wells during the current assessment activities.
- The onsite potable water well, identified as WW-1, was sampled as part of the current assessment activities. Laboratory analytical results failed to detect petroleum hydrocarbons in this well.
- Surface water samples were collected from Fall Creek (identified as CK-1) located

hydraulically down-gradient from the site and a tributary to Fall Creek (identified as CK-2) across SC Highway 11 from the site. Laboratory analytical results detected BTEX and MTBE concentrations at Sample CK-1, but petroleum hydrocarbons were not detected at Sample CK-2.

- SEI personnel continue to monitor the absorbent booms that have been placed in the interception trench and on Fall Creek directly down-gradient from the site. These booms are replaced on a monthly basis or as needed to prevent the migration of a petroleum sheen from traveling down Fall Creek.
- Petroleum hydrocarbons in the soil have been horizontally delineated during the current assessment activities.
- Petroleum hydrocarbons in the groundwater have been horizontally delineated during the current assessment activities with the exception of the hydraulically lateral direction towards Monitor Well MW-11. Further delineation in this direction is not possible due to the heavy brush that prevents a drill rig across Reid Drive.
- Petroleum hydrocarbons in the groundwater were not vertically delineated with the installation of Monitor Well DMW-1. This well's outer casing was set on bedrock at 28 feet bgs, and the monitor well was rock drilled to a depth of 45 feet bgs. Based on the concentrations that exist at this well, a double telescoping well is needed to further vertically delineate the petroleum hydrocarbons that exist in the source area.

Due to the presence of total BTEX, MTBE, and naphthalene concentrations existing greater than one or more of their respective RBSLs at monitor wells installed as part of this assessment and benzene concentrations existing greater than its RBSL at Sample CK-1, SEI Environmental, Inc. recommends that Highway 11 Grocery be considered a candidate for active corrective action. Furthermore, a double telescoping monitor well should be installed adjacent to Monitor Well DMW-1 to vertically delineate the petroleum hydrocarbons in the source area.

6.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the current UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

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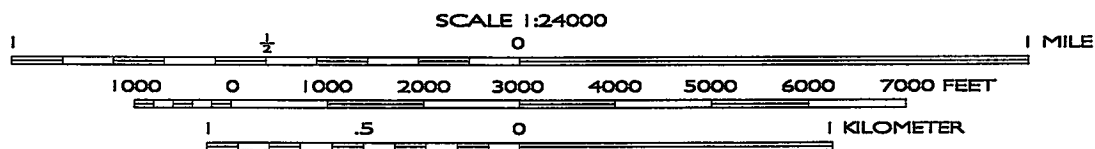
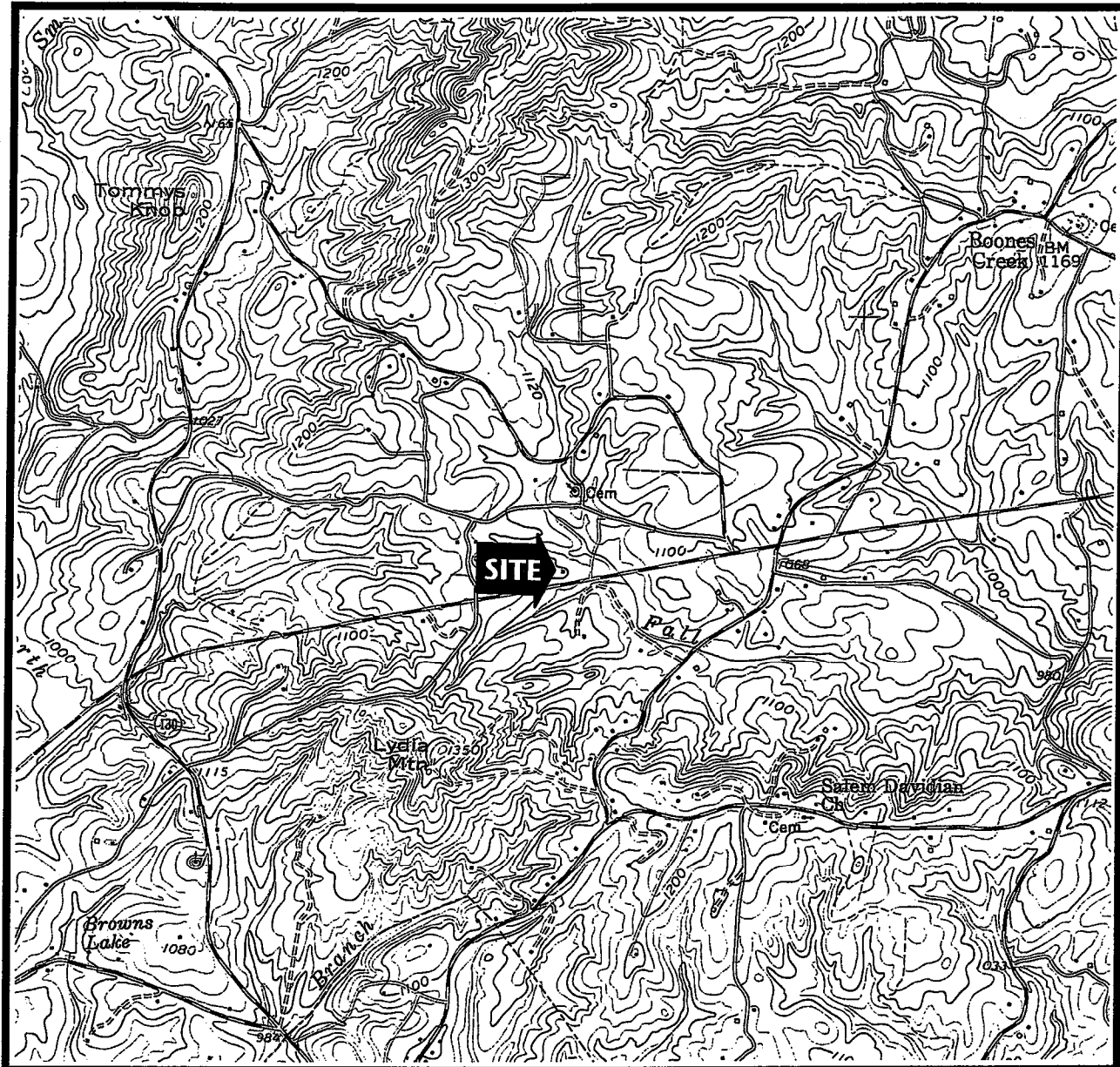
TABLE I
Groundwater Elevation Data
Highway 11 Grocery / Salem, South Carolina

Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Water Table Elevation (feet)
MW-1	08/27/01	103.38	25.00	0	30	78.38
MW-2	08/27/01	104.85	26.41	0	35	78.44
MW-3	08/27/01	104.89	25.07	0	30	79.82
MW-4	08/27/01	99.90	24.72	0	35	75.18
MW-5	08/27/01	106.06	29.41	0	35	76.65
MW-6	08/27/01	100.00	21.97	0	35	78.03
MW-7	08/27/01	103.66	28.71	0	40	74.95
MW-8	08/27/01	86.51	21.08	0	30	65.43
MW-9	08/27/01	58.39	2.51	0	12	55.88
MW-10	08/27/01	93.78	20.43	0	24	73.35
MW-11	08/27/01	83.20	17.07	0	23	66.13
MW-12	08/27/01	58.69	3.56	0	12	55.13
DMW-1	08/27/01	103.27	25.03	0	45	78.24

Top of casing elevations are based on an assumed elevation.

TABLE II
Field Calibration Results
Highway 11 Grocery / Salem, South Carolina

Calibration Date	Field Instrument	Model Number	Serial Number	Calibration Standard	Instrument Reading
07/09/01	OVA-FID	128	41171	Methane (96 ppm)	96 ppm
07/10/01	OVA-FID	128	41171	Methane (96 ppm)	96 ppm
07/11/01	OVA-FID	128	41171	Methane (96 ppm)	96 ppm
07/12/01	OVA-FID	128	41171	Methane (96 ppm)	96 ppm
08/20/01	OVA-FID	128	41171	Methane (96 ppm)	96 ppm
08/23/01	OVA-FID	128	41171	Methane (96 ppm)	96 ppm



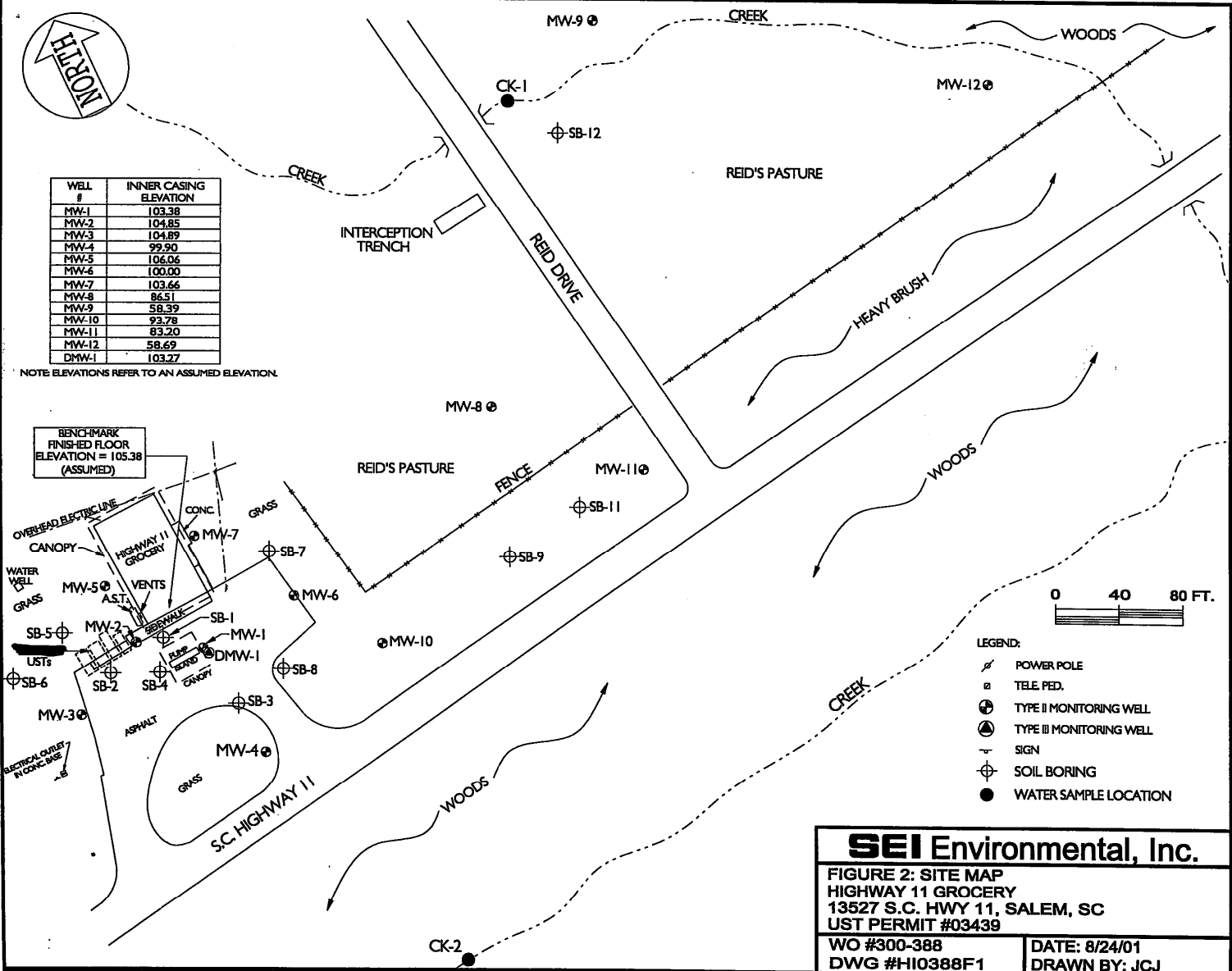
SEI Environmental, Inc.	
FIGURE 1: SITE LOCATION MAP HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: JCI



WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
DMW-1	103.27

NOTE ELEVATIONS REFER TO AN ASSUMED ELEVATION.

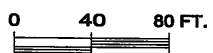
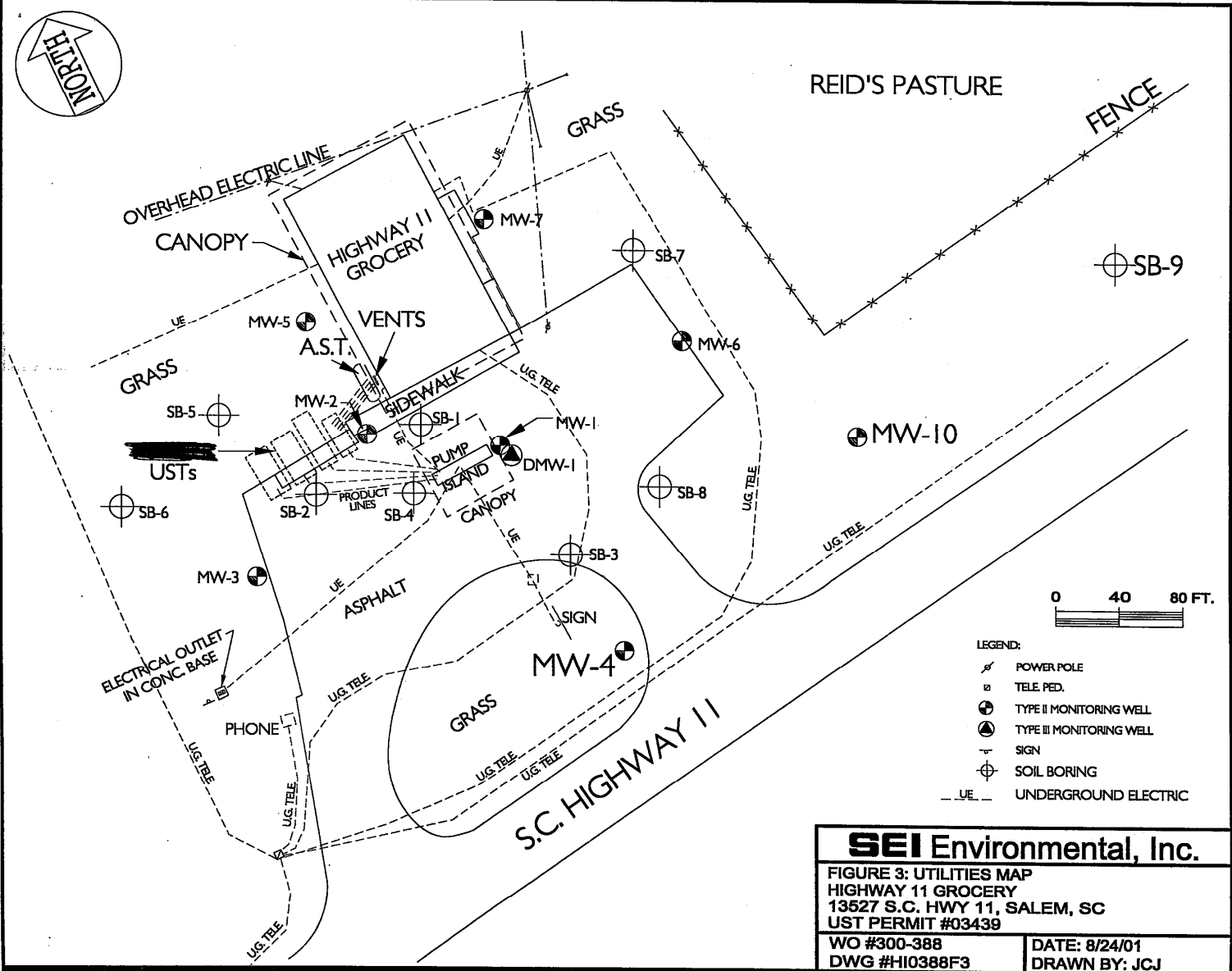
BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)



- LEGEND:
- POWER POLE
 - TELE. PED.
 - TYPE II MONITORING WELL
 - TYPE III MONITORING WELL
 - SIGN
 - SOIL BORING
 - WATER SAMPLE LOCATION

SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 8/24/01
DWG #H10388F1	DRAWN BY: JCJ



- LEGEND:
- POWER POLE
 - TELE. PED.
 - TYPE II MONITORING WELL
 - TYPE III MONITORING WELL
 - SIGN
 - SOIL BORING
 - UNDERGROUND ELECTRIC

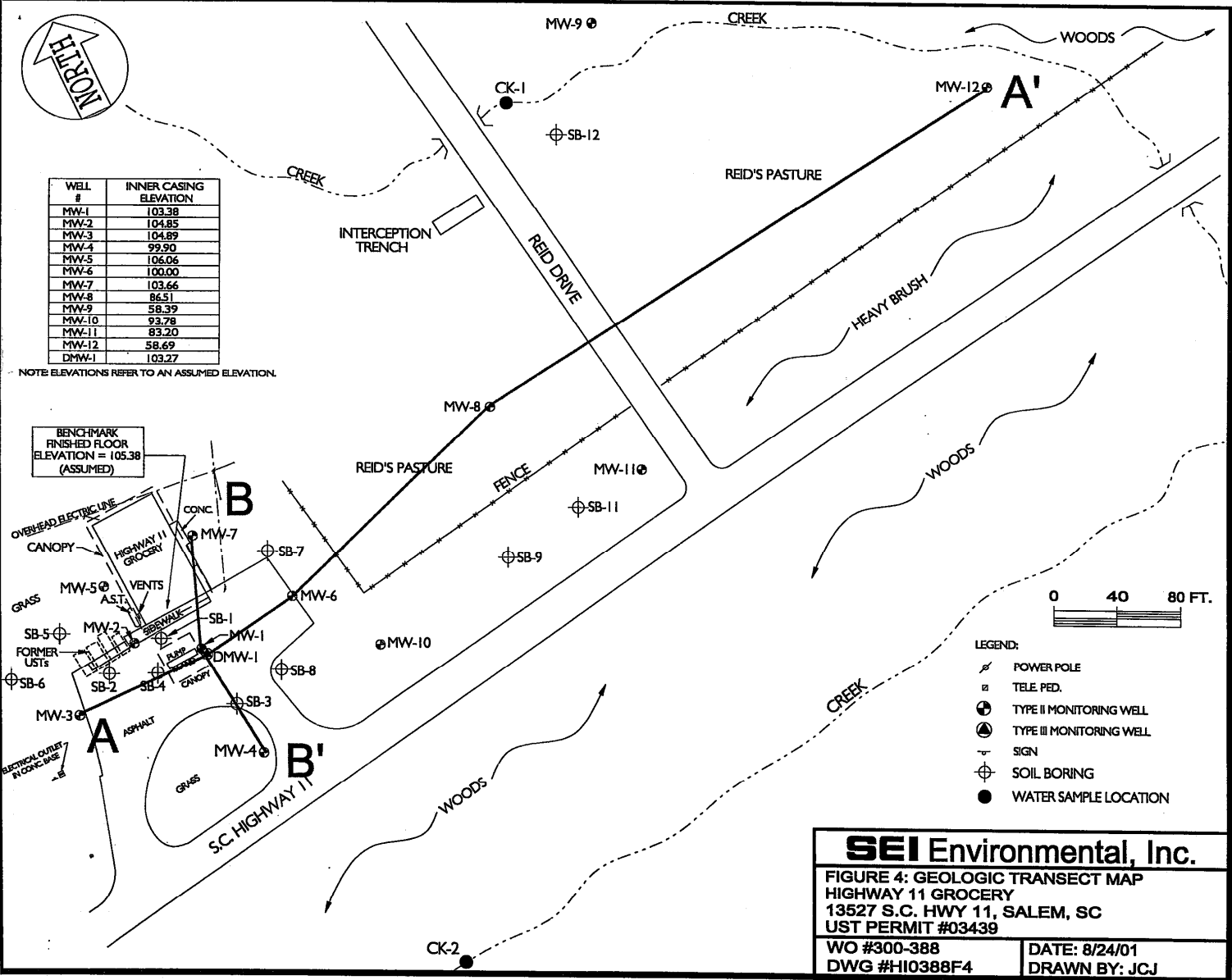
SEI Environmental, Inc.
FIGURE 3: UTILITIES MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439
WO #300-388
DWG #H10388F3
DATE: 8/24/01
DRAWN BY: JCJ



WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
DMW-1	103.27

NOTE ELEVATIONS REFER TO AN ASSUMED ELEVATION.

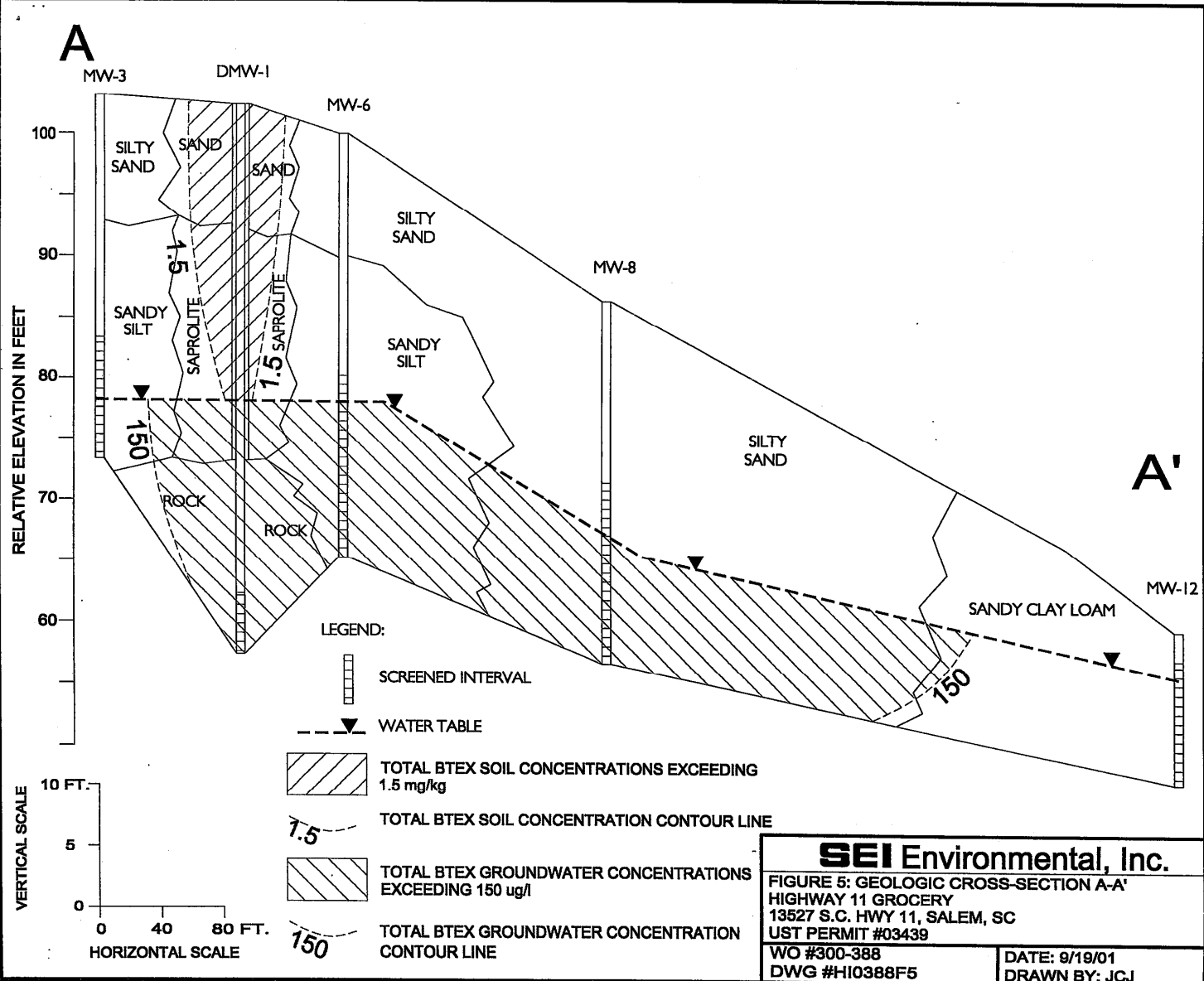
BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)



- LEGEND:
- POWER POLE
 - TELE. PED.
 - TYPE II MONITORING WELL
 - TYPE III MONITORING WELL
 - SIGN
 - SOIL BORING
 - WATER SAMPLE LOCATION

SEI Environmental, Inc.
 FIGURE 4: GEOLOGIC TRANSECT MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

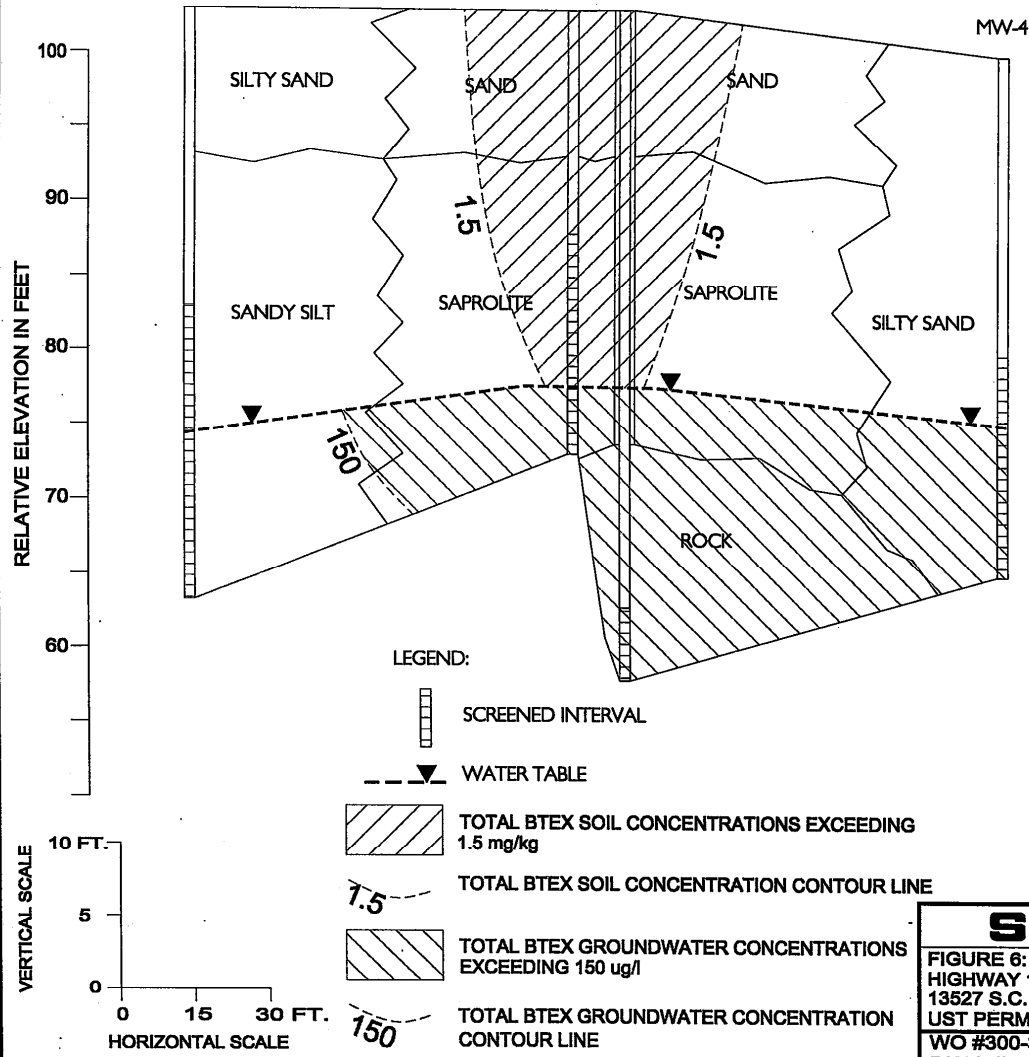
WO #300-388	DATE: 8/24/01
DWG #HI0388F4	DRAWN BY: JCJ



B

B'

MW-7 MW-1 DMW-1 MW-4

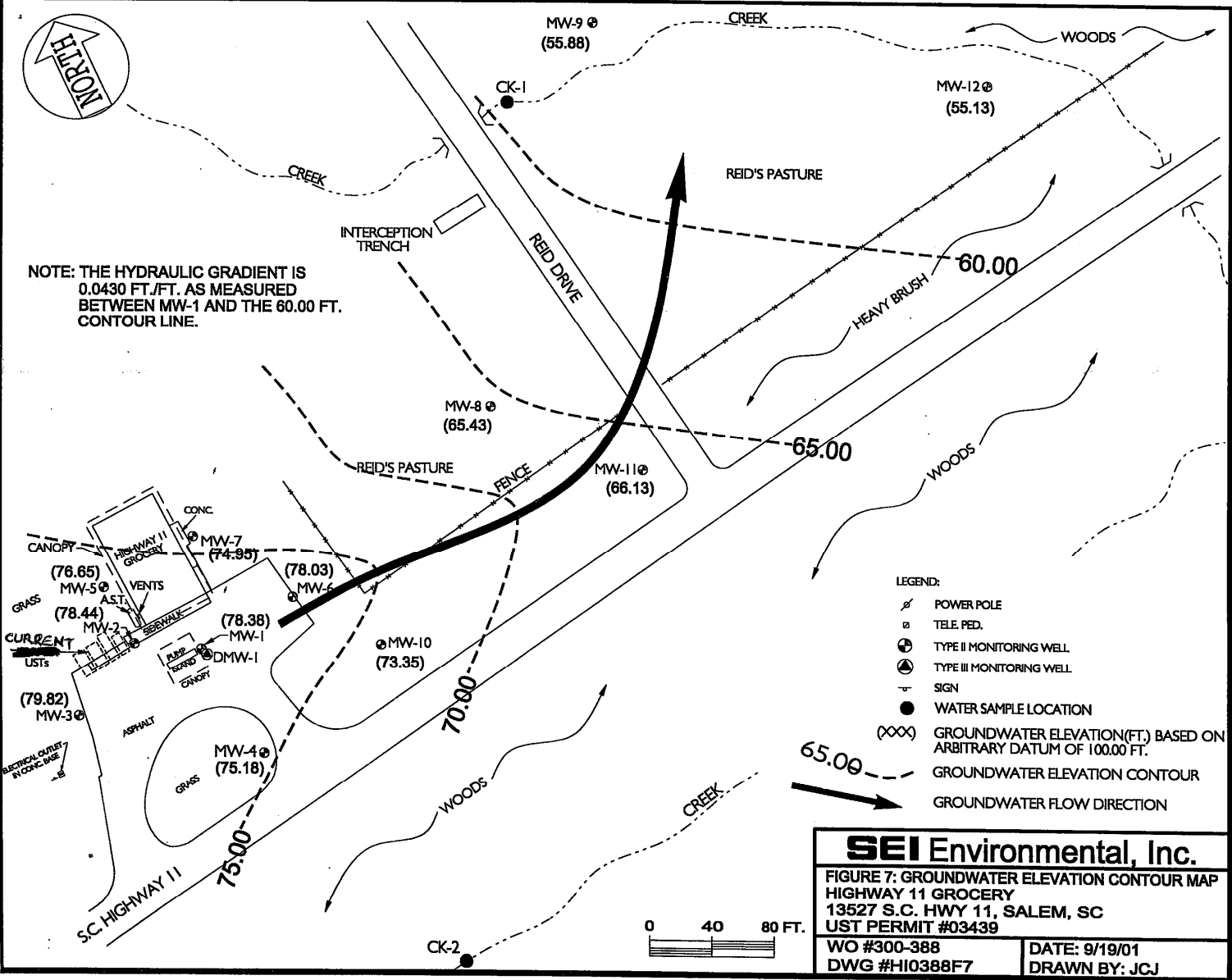


- LEGEND:
- SCREENED INTERVAL
 - WATER TABLE
 - TOTAL BTEX SOIL CONCENTRATIONS EXCEEDING 1.5 mg/kg
 - TOTAL BTEX SOIL CONCENTRATION CONTOUR LINE
 - TOTAL BTEX GROUNDWATER CONCENTRATIONS EXCEEDING 150 ug/l
 - TOTAL BTEX GROUNDWATER CONCENTRATION CONTOUR LINE

SEI Environmental, Inc.	
FIGURE 6: GEOLOGIC CROSS-SECTION B-B'	
HIGHWAY 11 GROCERY	
13527 S.C. HWY 11, SALEM, SC	
UST PERMIT #03439	
WO #300-388	DATE: 9/19/01
DWG #H10388F6	DRAWN BY: JCJ



NOTE: THE HYDRAULIC GRADIENT IS 0.0430 FT./FT. AS MEASURED BETWEEN MW-1 AND THE 60.00 FT. CONTOUR LINE.



LEGEND:

- POWER POLE
- TELE. PED.
- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- SIGN
- WATER SAMPLE LOCATION
- GROUNDWATER ELEVATION (FT.) BASED ON ARBITRARY DATUM OF 100.00 FT.
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

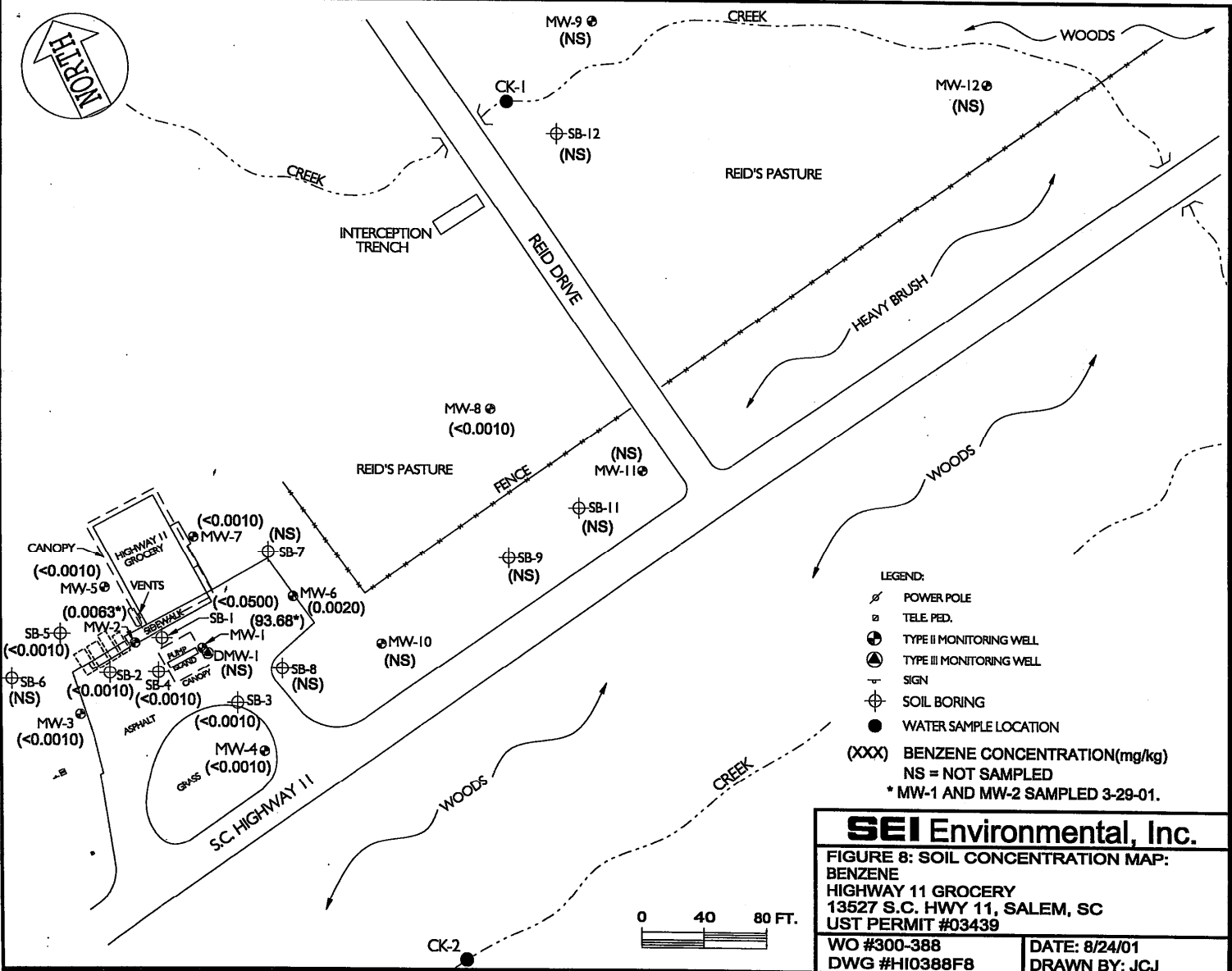
SEI Environmental, Inc.

FIGURE 7: GROUNDWATER ELEVATION CONTOUR MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

WO #300-388
DWG #HI0388F7

DATE: 9/19/01
DRAWN BY: JCJ



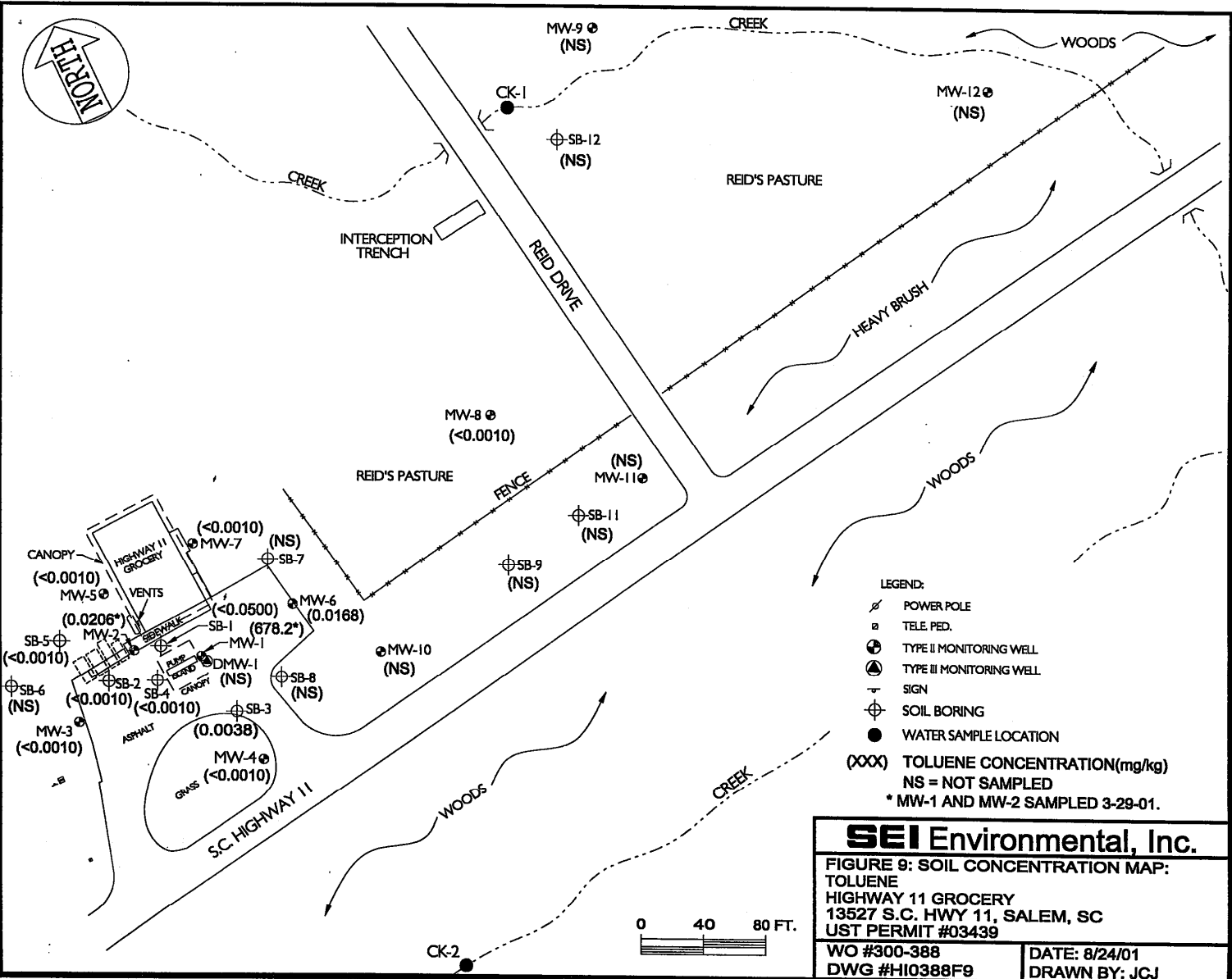


LEGEND:

- ⊗ POWER POLE
- TELE. PED.
- ⊙ TYPE II MONITORING WELL
- ⊙ TYPE III MONITORING WELL
- ⊙ SIGN
- ⊕ SOIL BORING
- WATER SAMPLE LOCATION

(XXX) BENZENE CONCENTRATION(mg/kg)
 NS = NOT SAMPLED
 * MW-1 AND MW-2 SAMPLED 3-29-01.

SEI Environmental, Inc.	
FIGURE 8: SOIL CONCENTRATION MAP: BENZENE HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
WO #300-388 DWG #HI0388F8	DATE: 8/24/01 DRAWN BY: JCJ



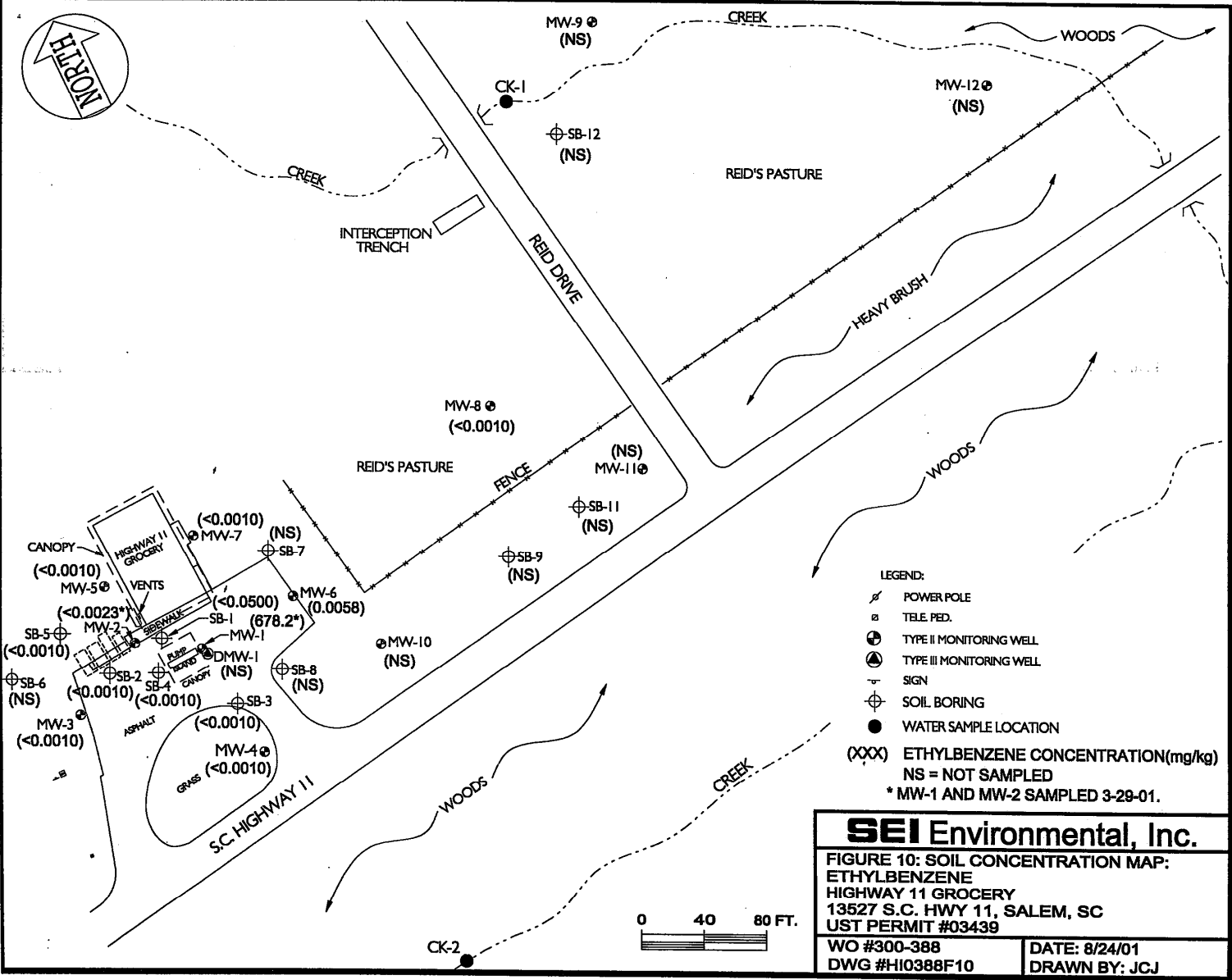
LEGEND:

- ⚡ POWER POLE
- TELE. PED.
- ⊕ TYPE II MONITORING WELL
- ⊕ TYPE III MONITORING WELL
- ⊕ SIGN
- ⊕ SOIL BORING
- WATER SAMPLE LOCATION
- (XXX) TOLUENE CONCENTRATION(mg/kg)
- NS = NOT SAMPLED
- * MW-1 AND MW-2 SAMPLED 3-29-01.

SEI Environmental, Inc.

**FIGURE 9: SOIL CONCENTRATION MAP:
TOLUENE
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439**

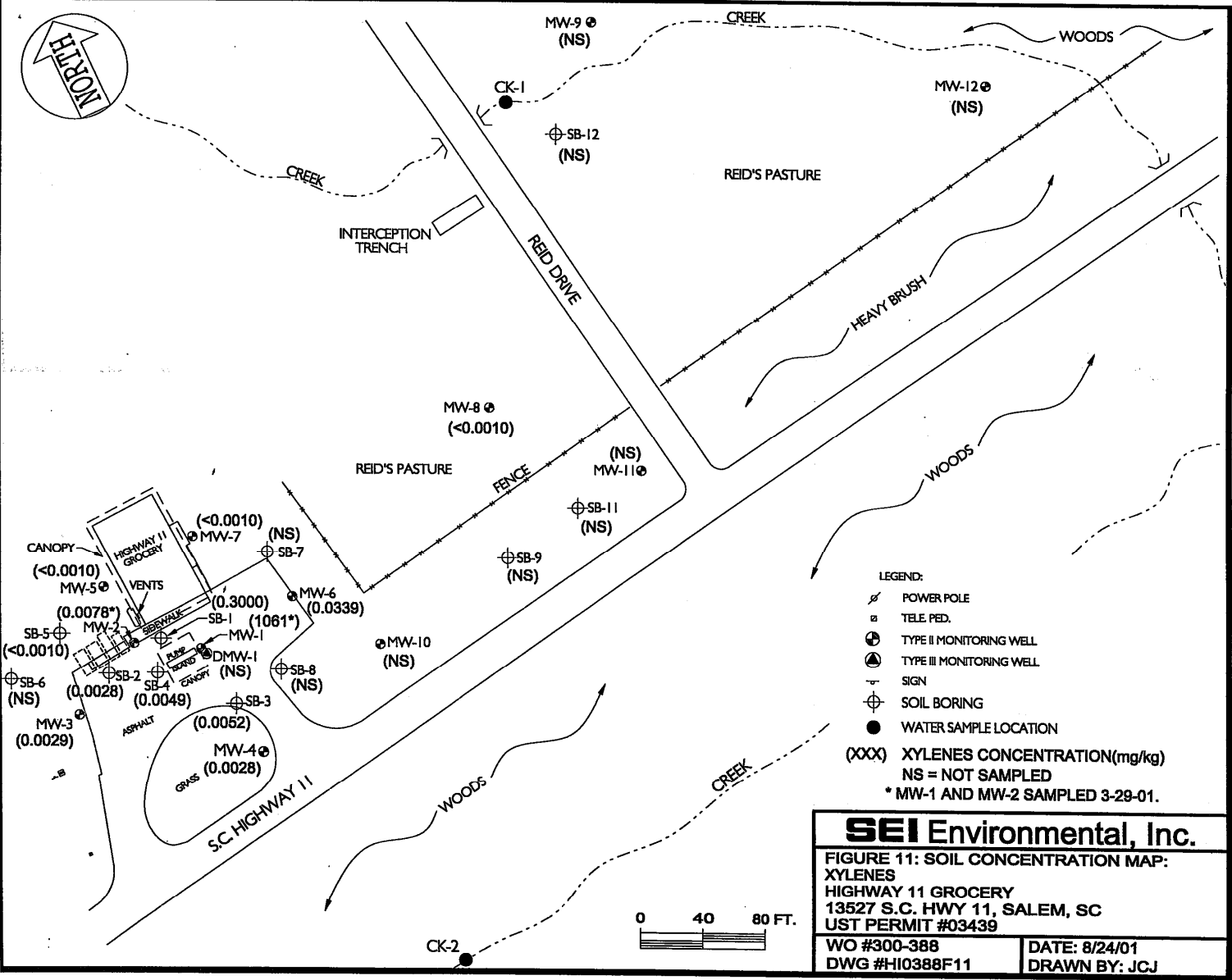
WO #300-388	DATE: 8/24/01
DWG #H10388F9	DRAWN BY: JCJ



SEI Environmental, Inc.

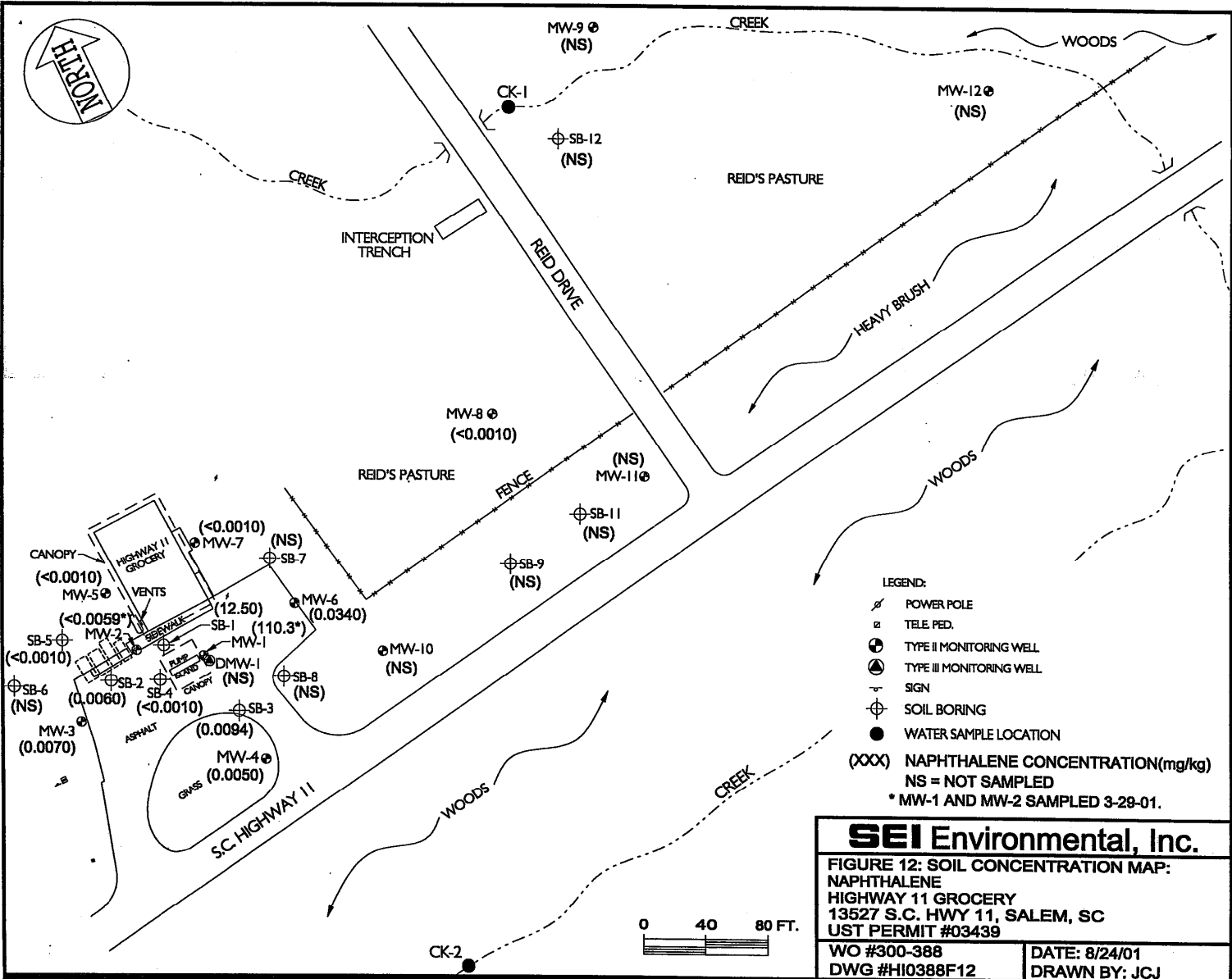
**FIGURE 10: SOIL CONCENTRATION MAP:
ETHYLBENZENE
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439**

WO #300-388	DATE: 8/24/01
DWG #HI0388F10	DRAWN BY: JCJ



SEI Environmental, Inc.
FIGURE 11: SOIL CONCENTRATION MAP:
 XYLENES
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

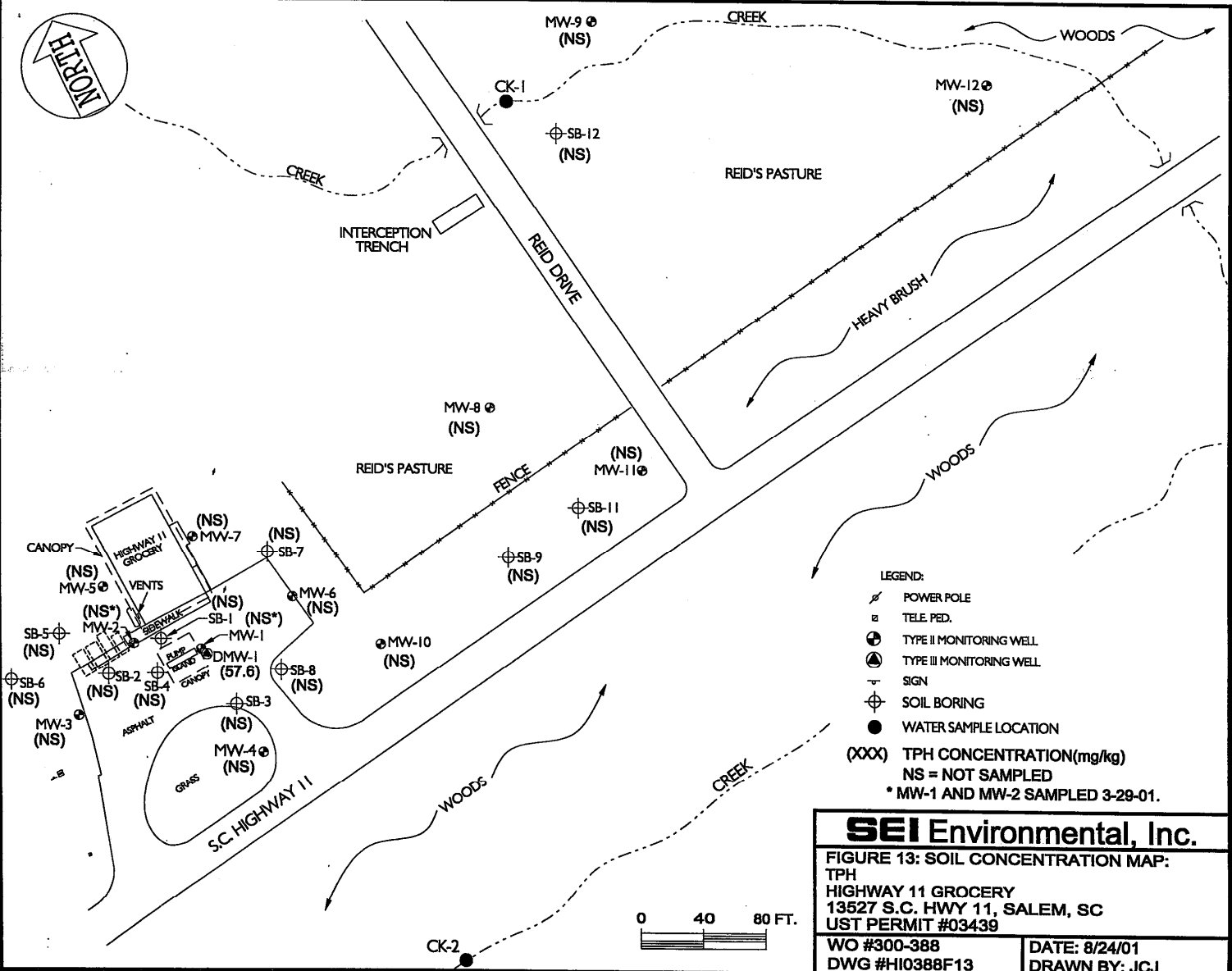
WO #300-388	DATE: 8/24/01
DWG #H10388F11	DRAWN BY: JCJ

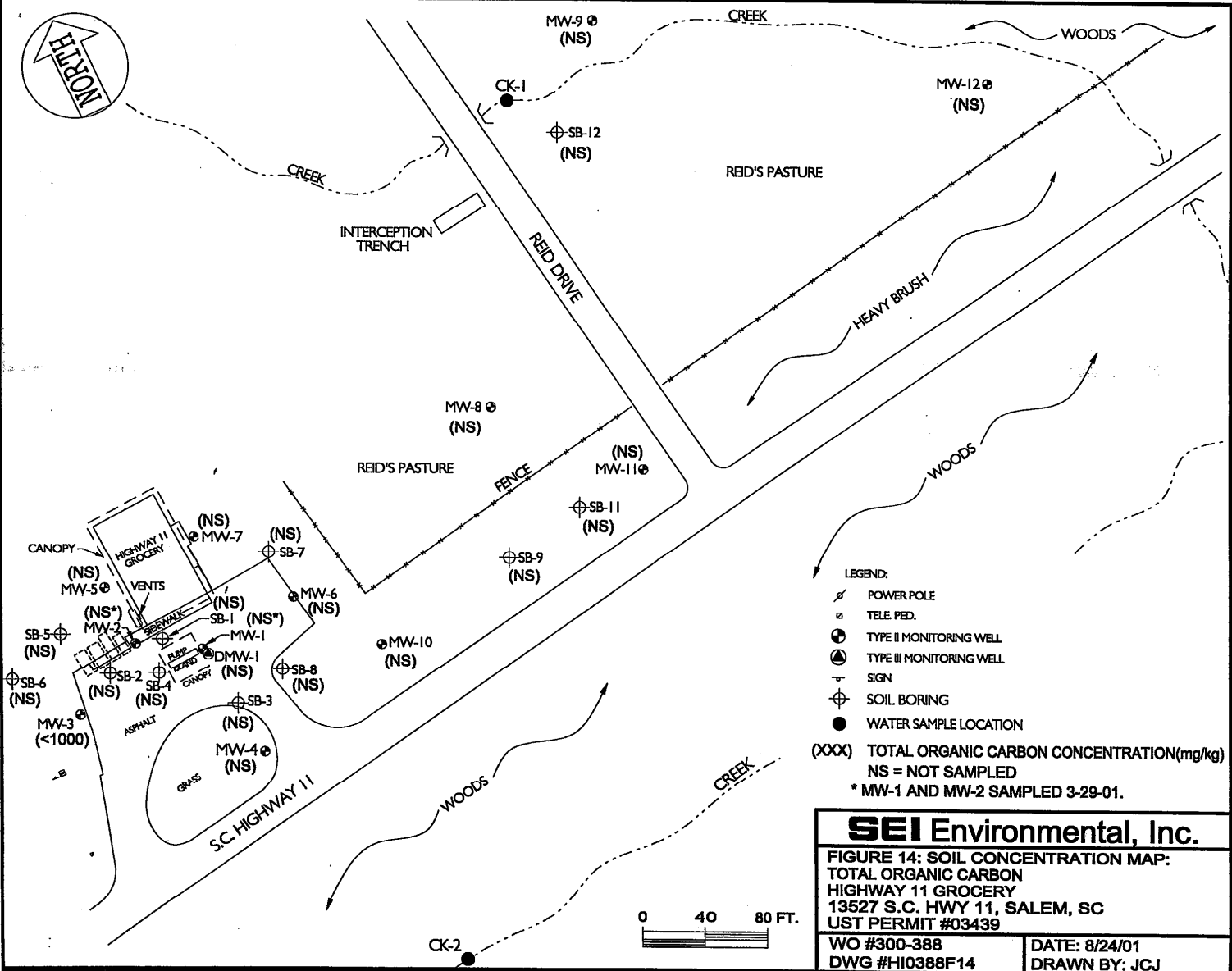


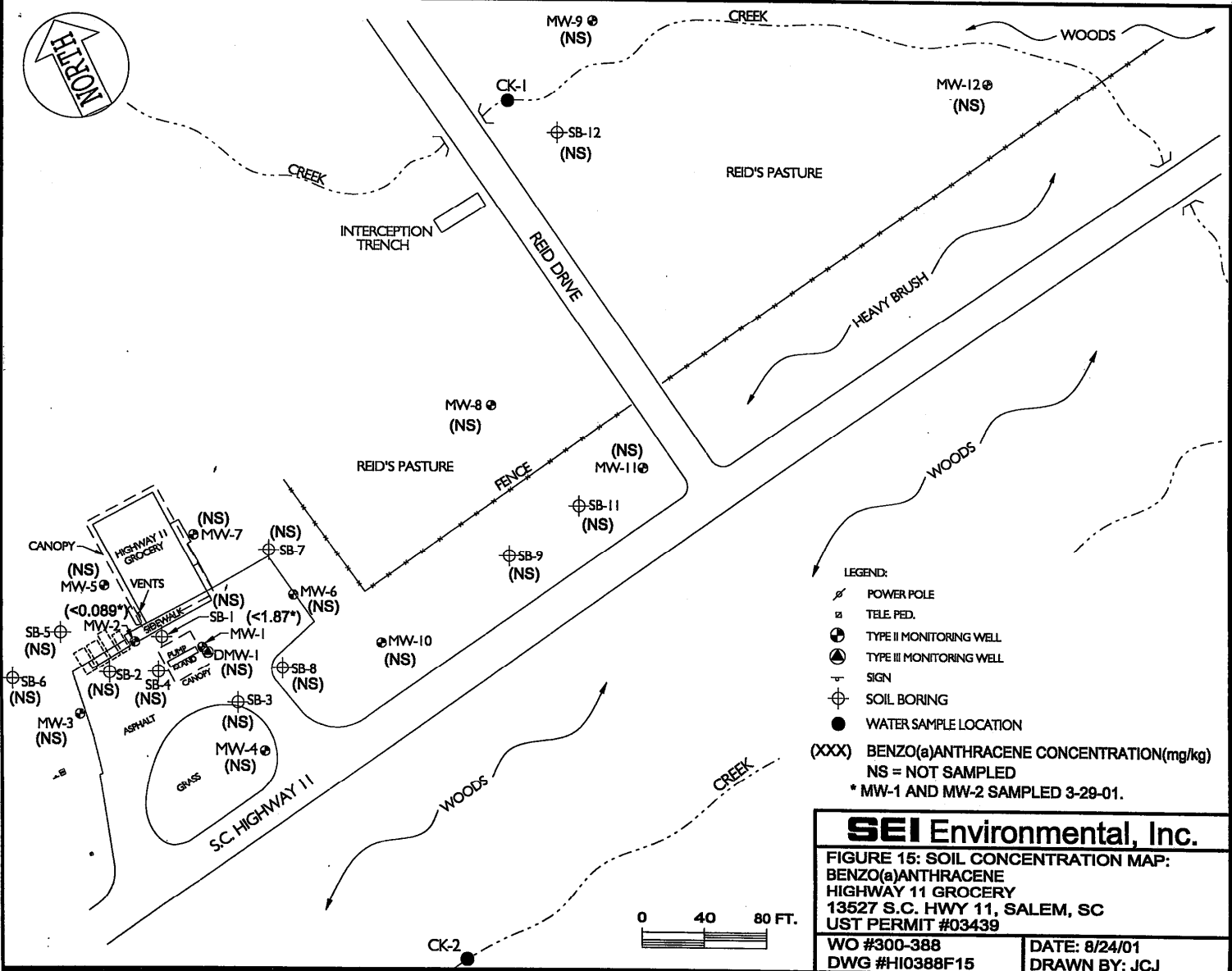
LEGEND:

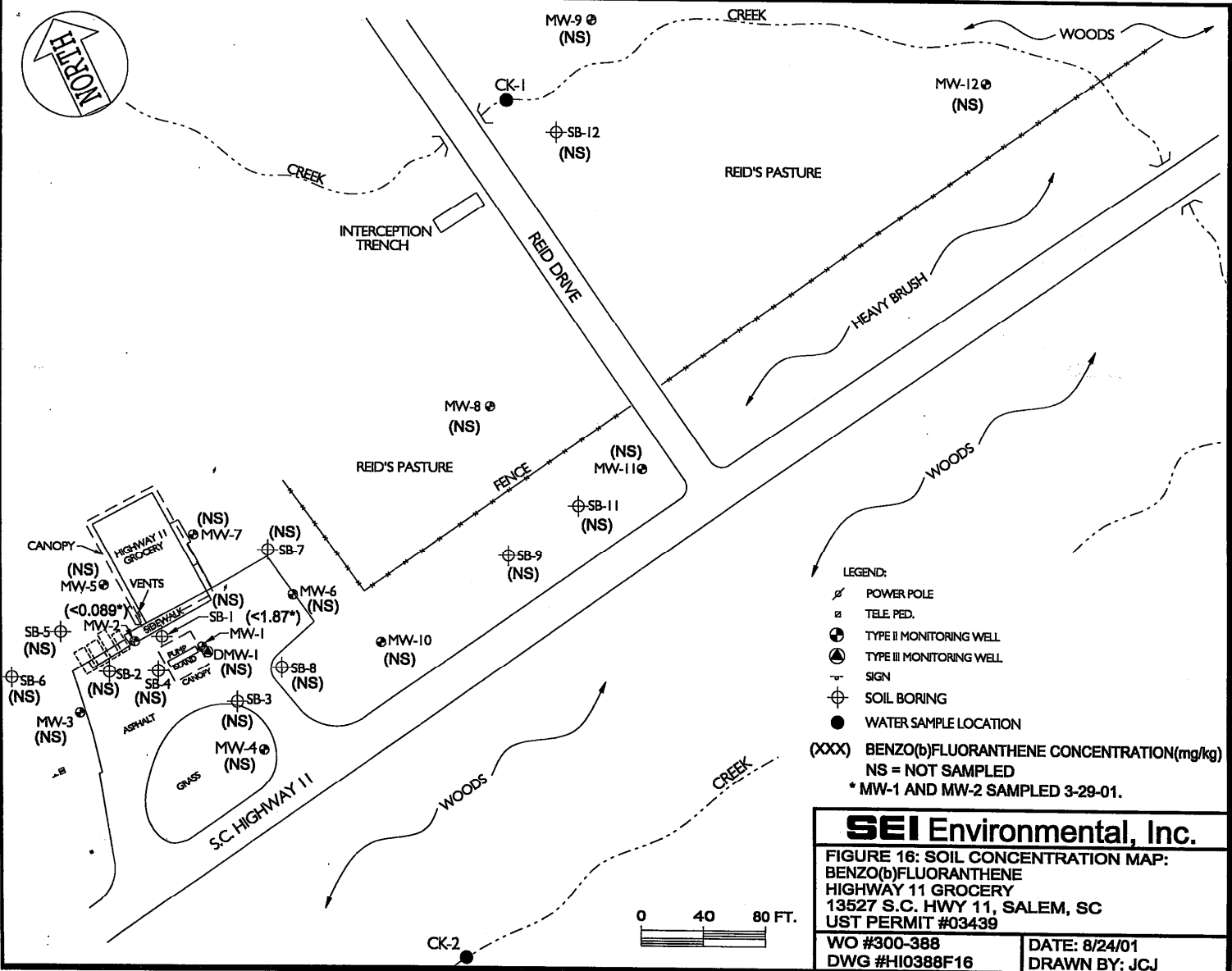
- ⚡ POWER POLE
- ⊠ TELE. PED.
- ⊕ TYPE II MONITORING WELL
- ⊕ TYPE III MONITORING WELL
- ⊕ SIGN
- ⊕ SOIL BORING
- WATER SAMPLE LOCATION
- (XXX) NAPHTHALENE CONCENTRATION(mg/kg)
- NS = NOT SAMPLED
- * MW-1 AND MW-2 SAMPLED 3-29-01.

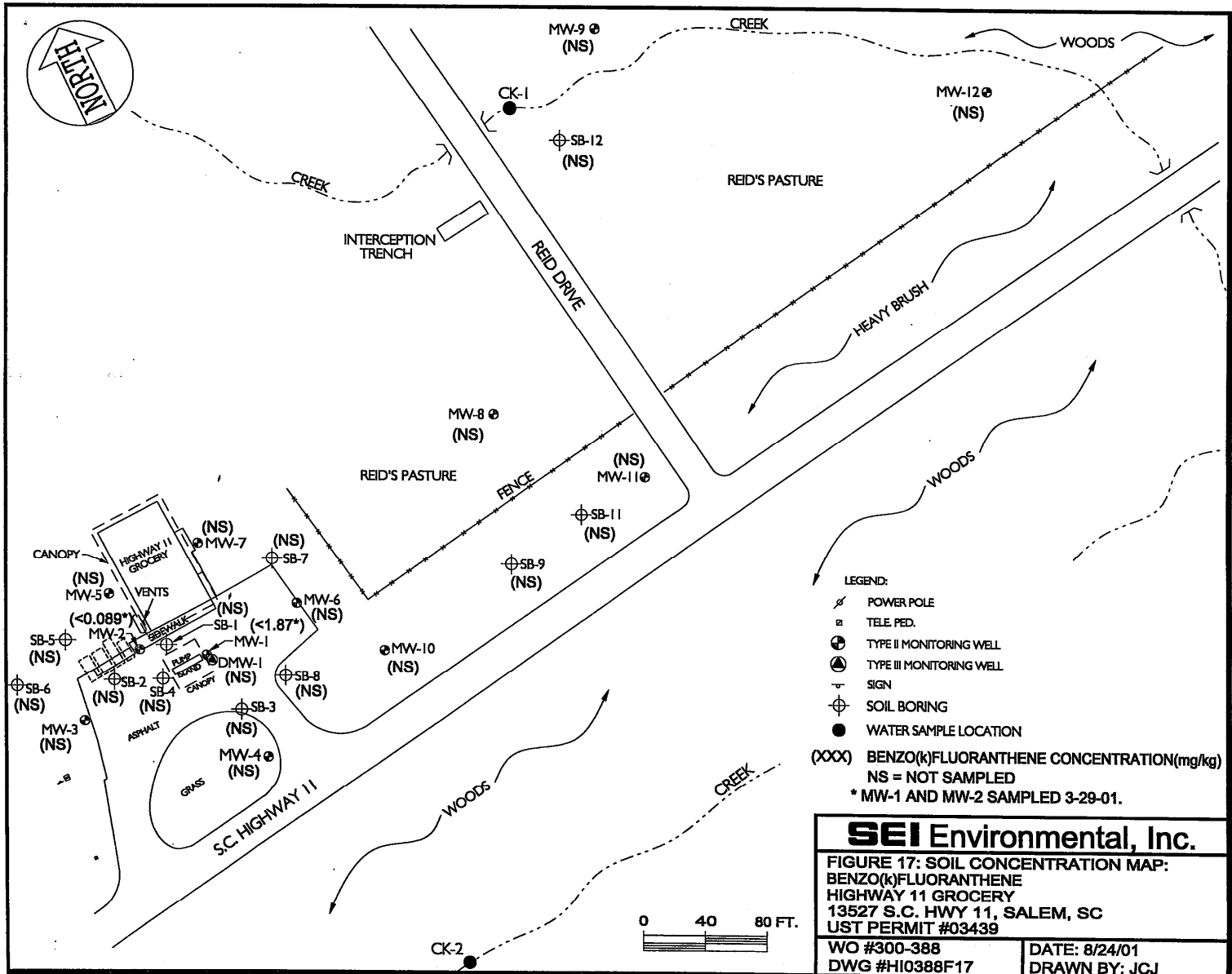
SEI Environmental, Inc.	
FIGURE 12: SOIL CONCENTRATION MAP: NAPHTHALENE HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
WO #300-388	DATE: 8/24/01
DWG #HI0388F12	DRAWN BY: JCJ

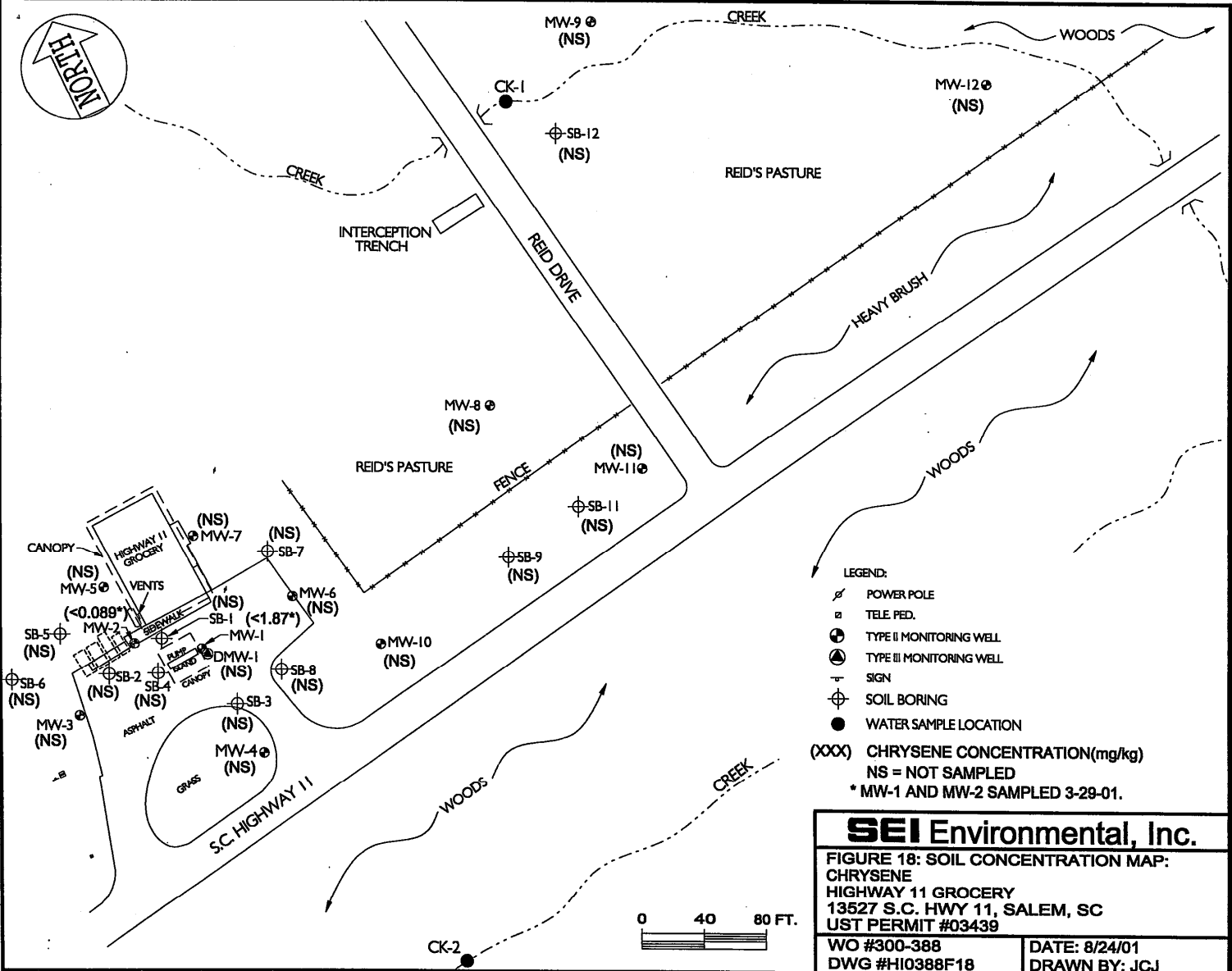


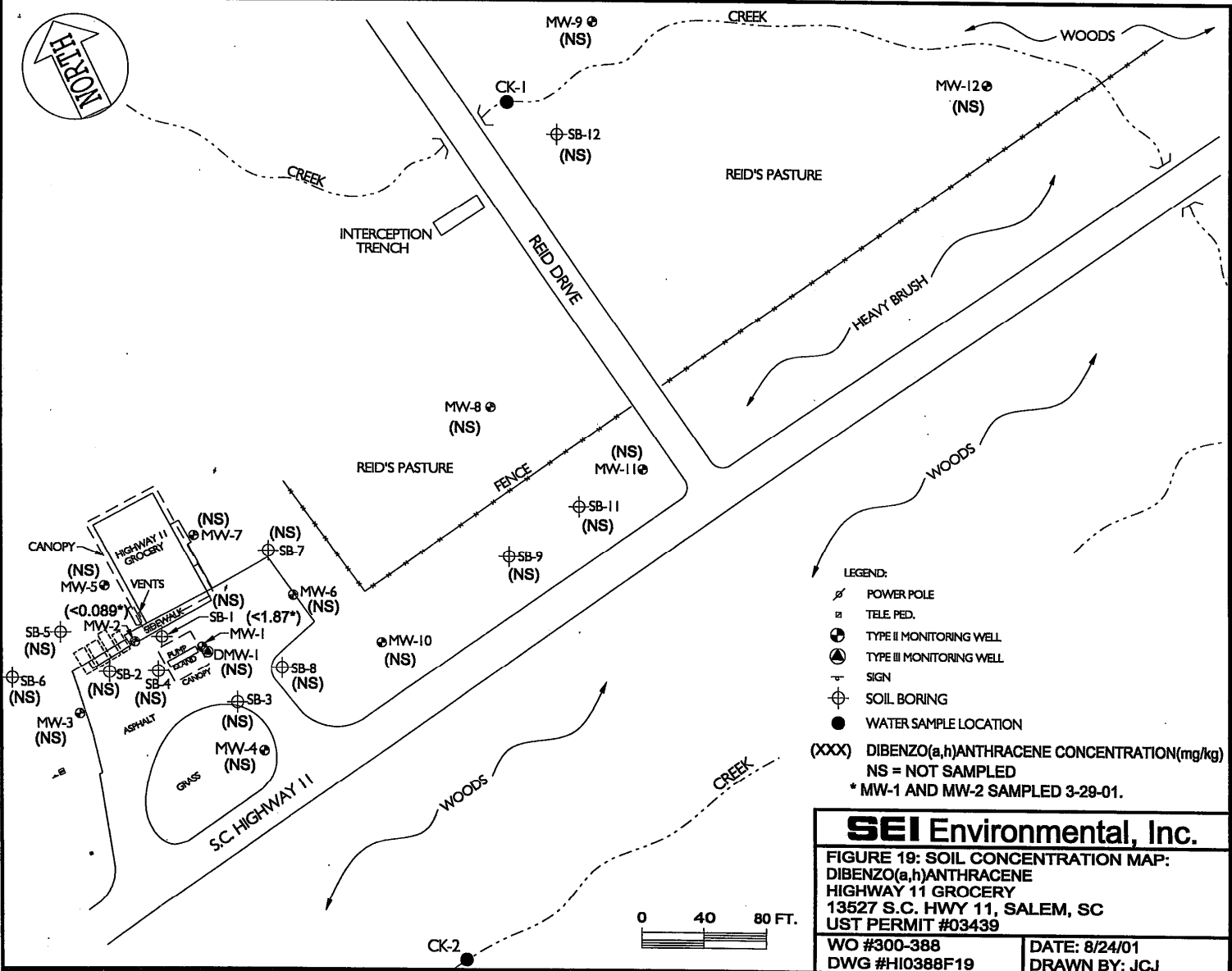


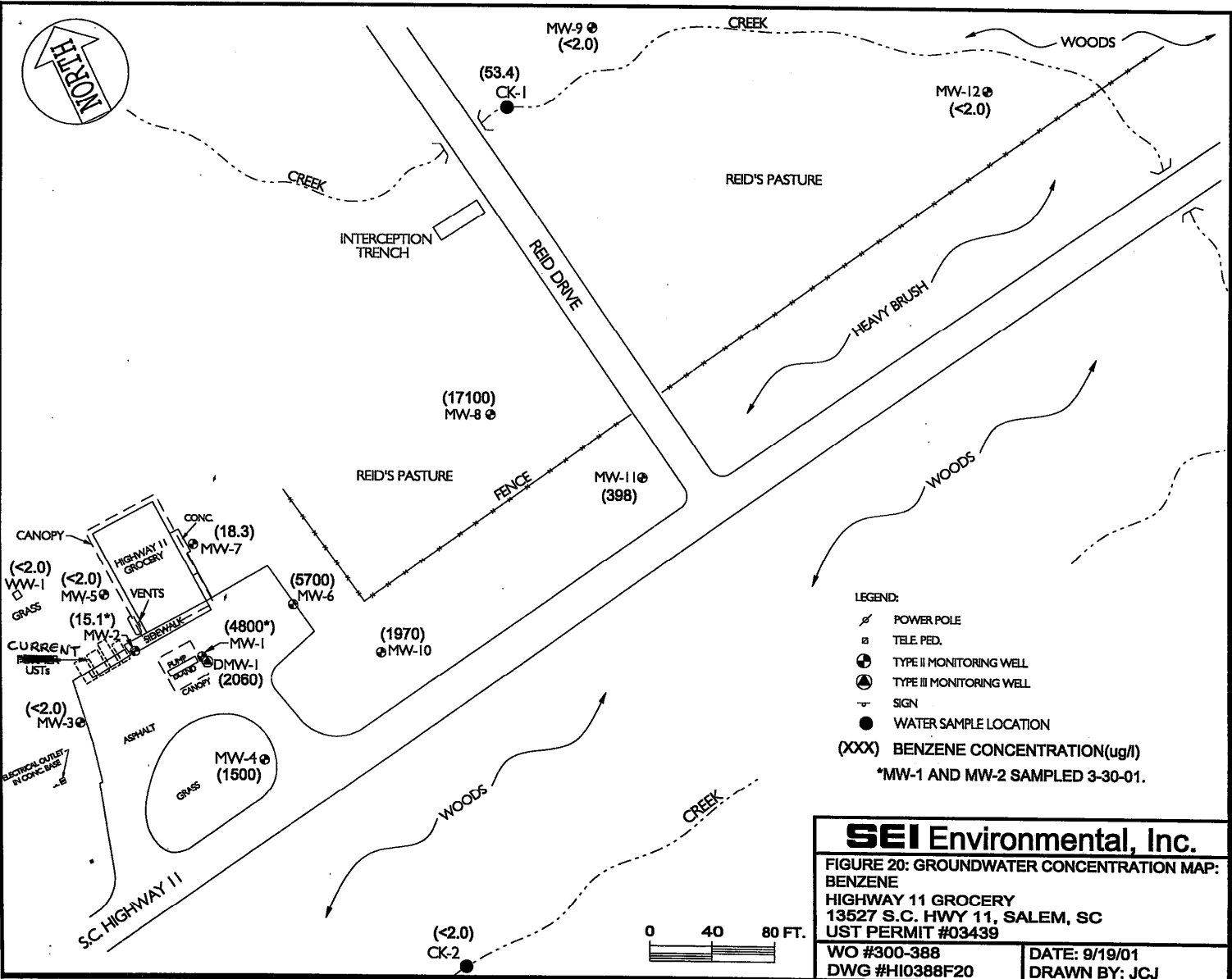








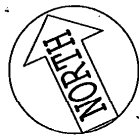
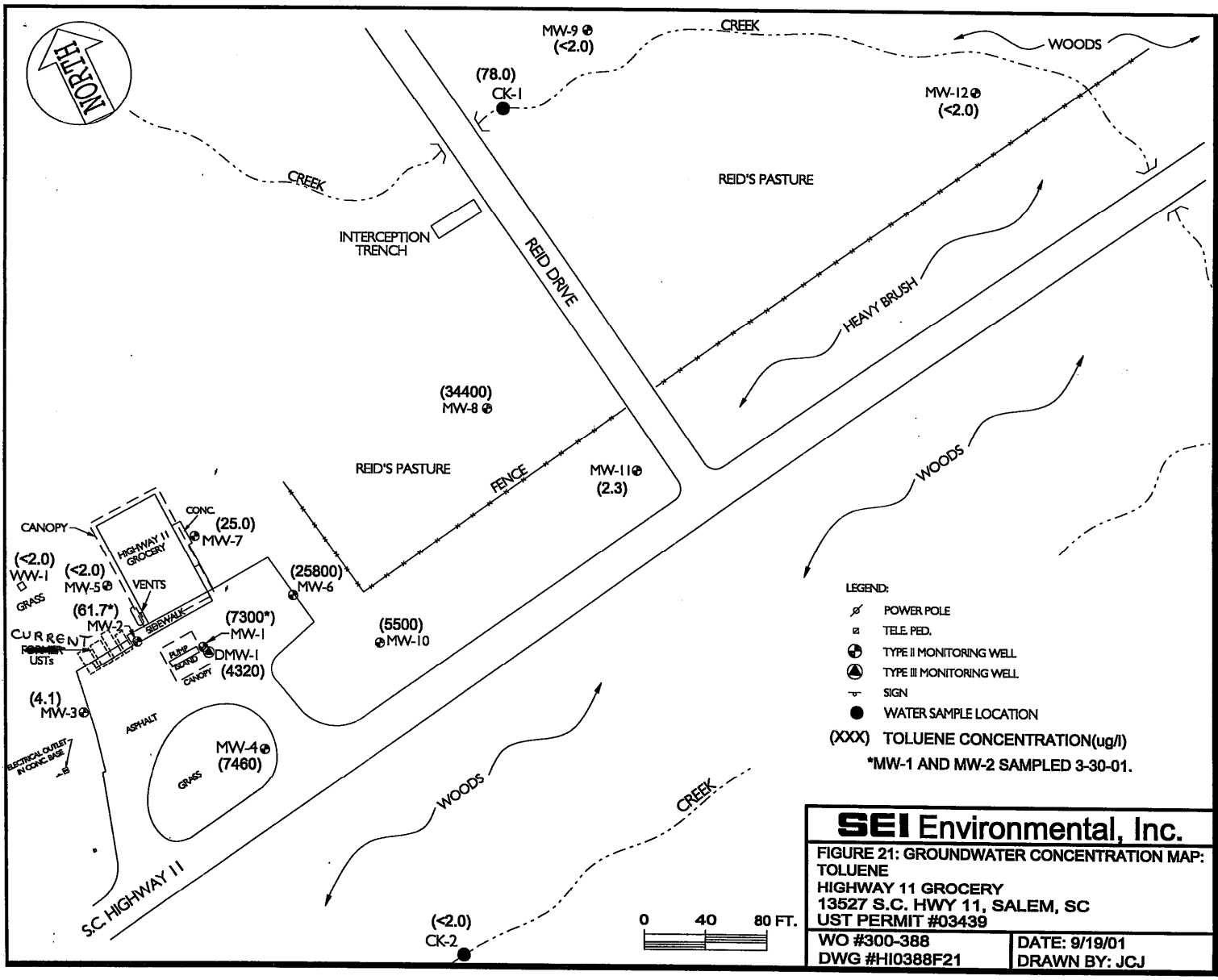




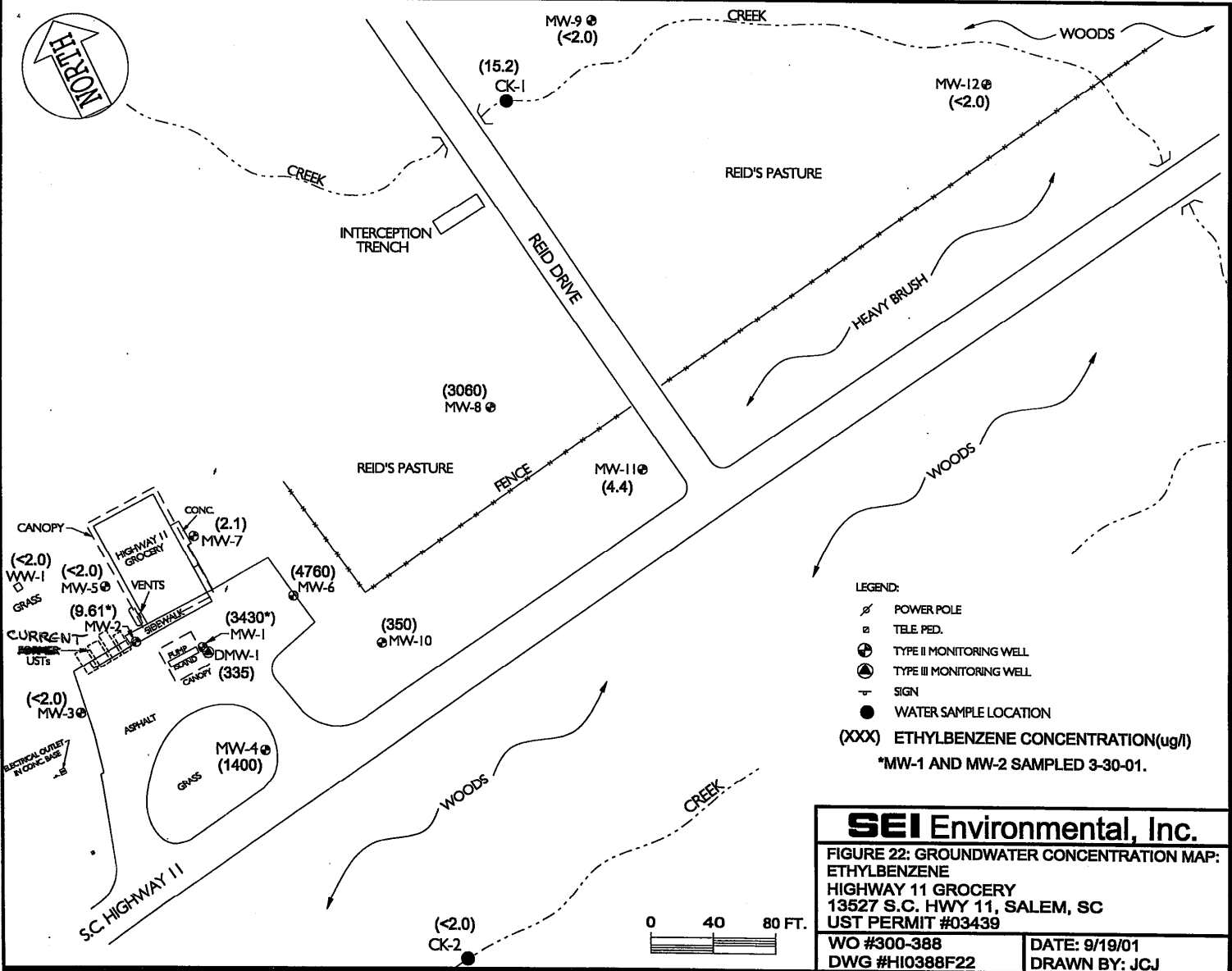
SEI Environmental, Inc.

FIGURE 20: GROUNDWATER CONCENTRATION MAP:
 BENZENE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #H10388F20	DRAWN BY: JCJ



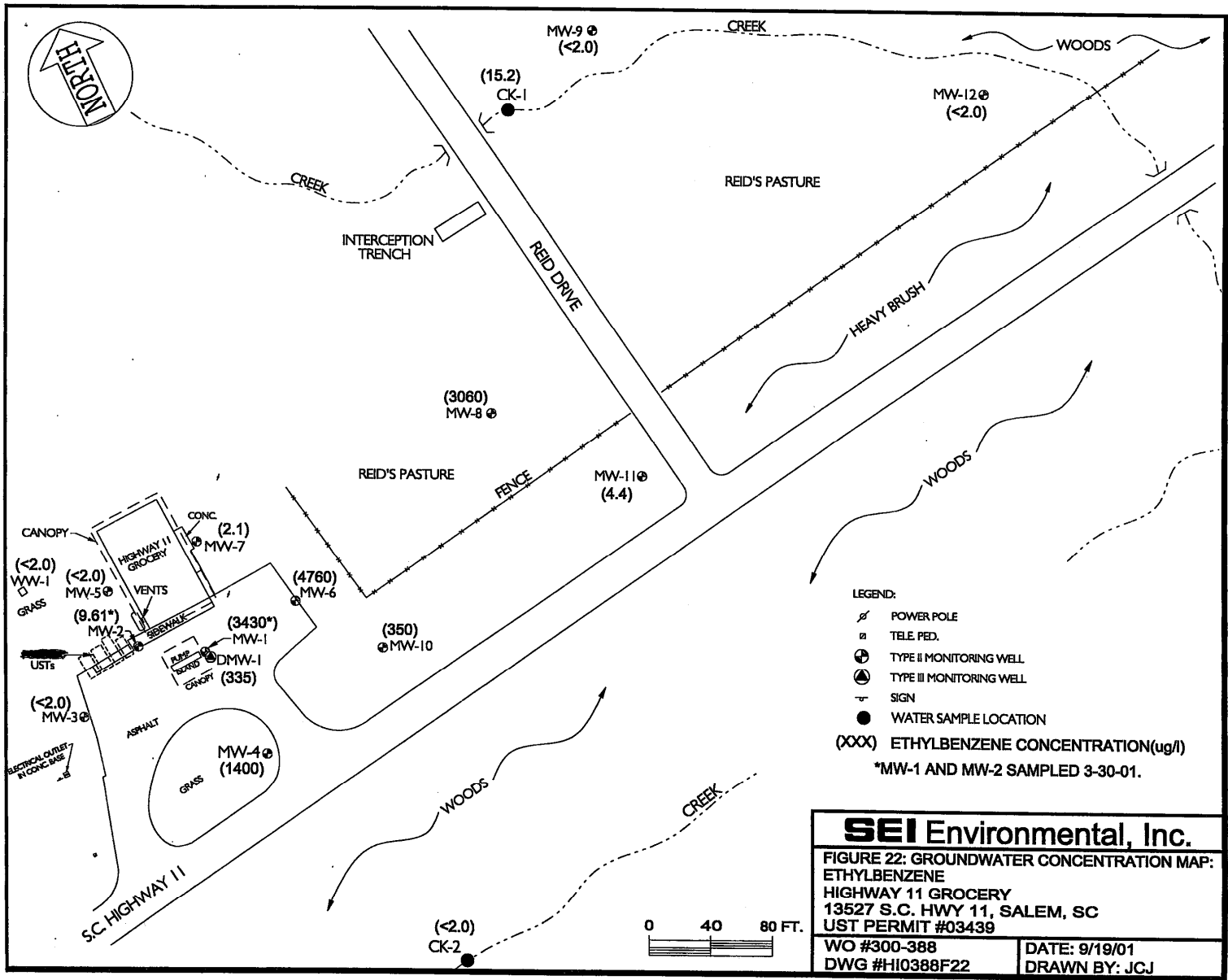
SEI Environmental, Inc.
 FIGURE 21: GROUNDWATER CONCENTRATION MAP:
 TOLUENE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #300-388 DATE: 9/19/01
 DWG #HI0388F21 DRAWN BY: JCJ



SEI Environmental, Inc.

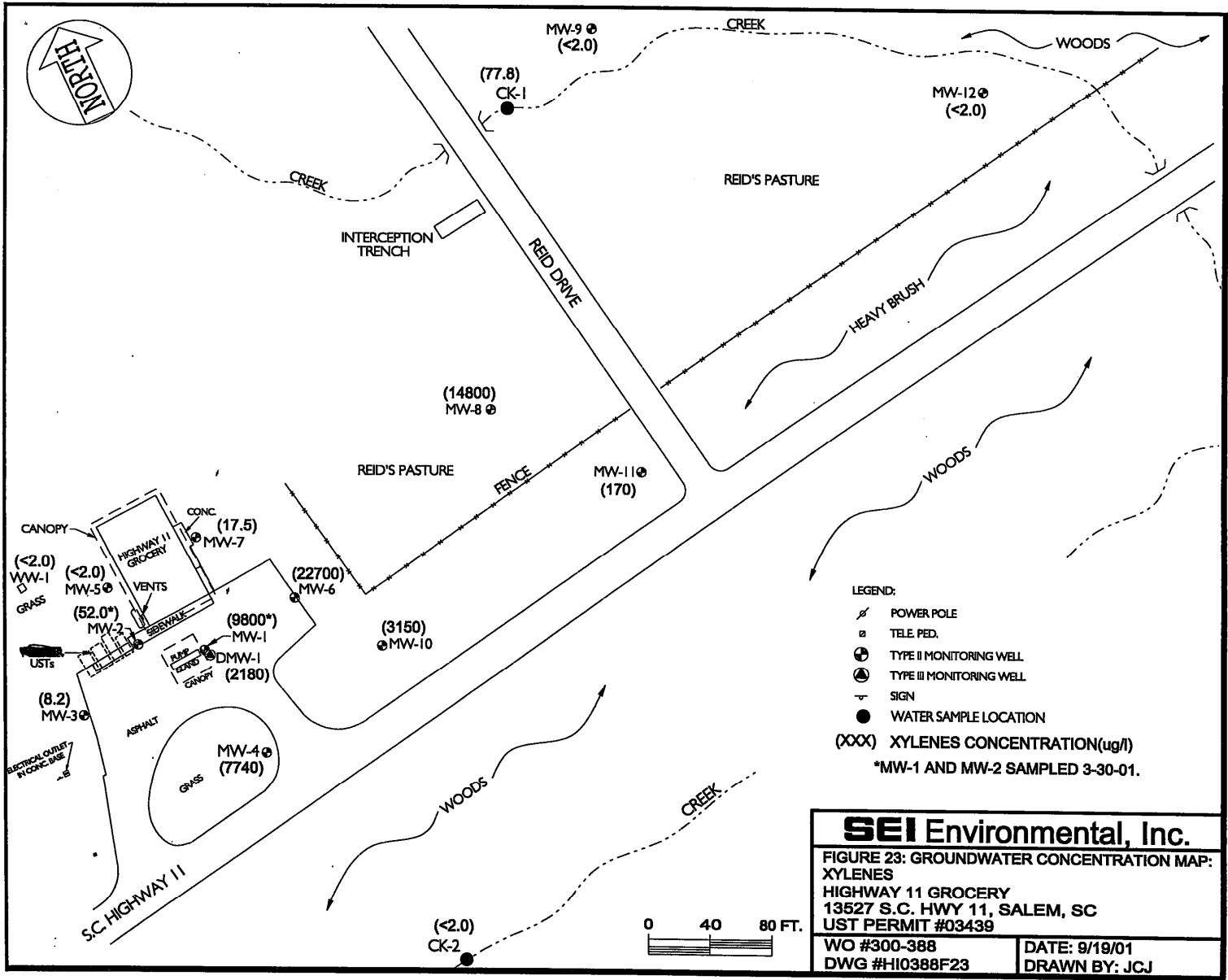
FIGURE 22: GROUNDWATER CONCENTRATION MAP:
 ETHYLBENZENE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #H10388F22	DRAWN BY: JCJ



SEI Environmental, Inc.
 FIGURE 22: GROUNDWATER CONCENTRATION MAP:
 ETHYLBENZENE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

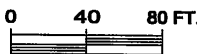
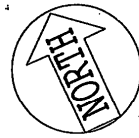
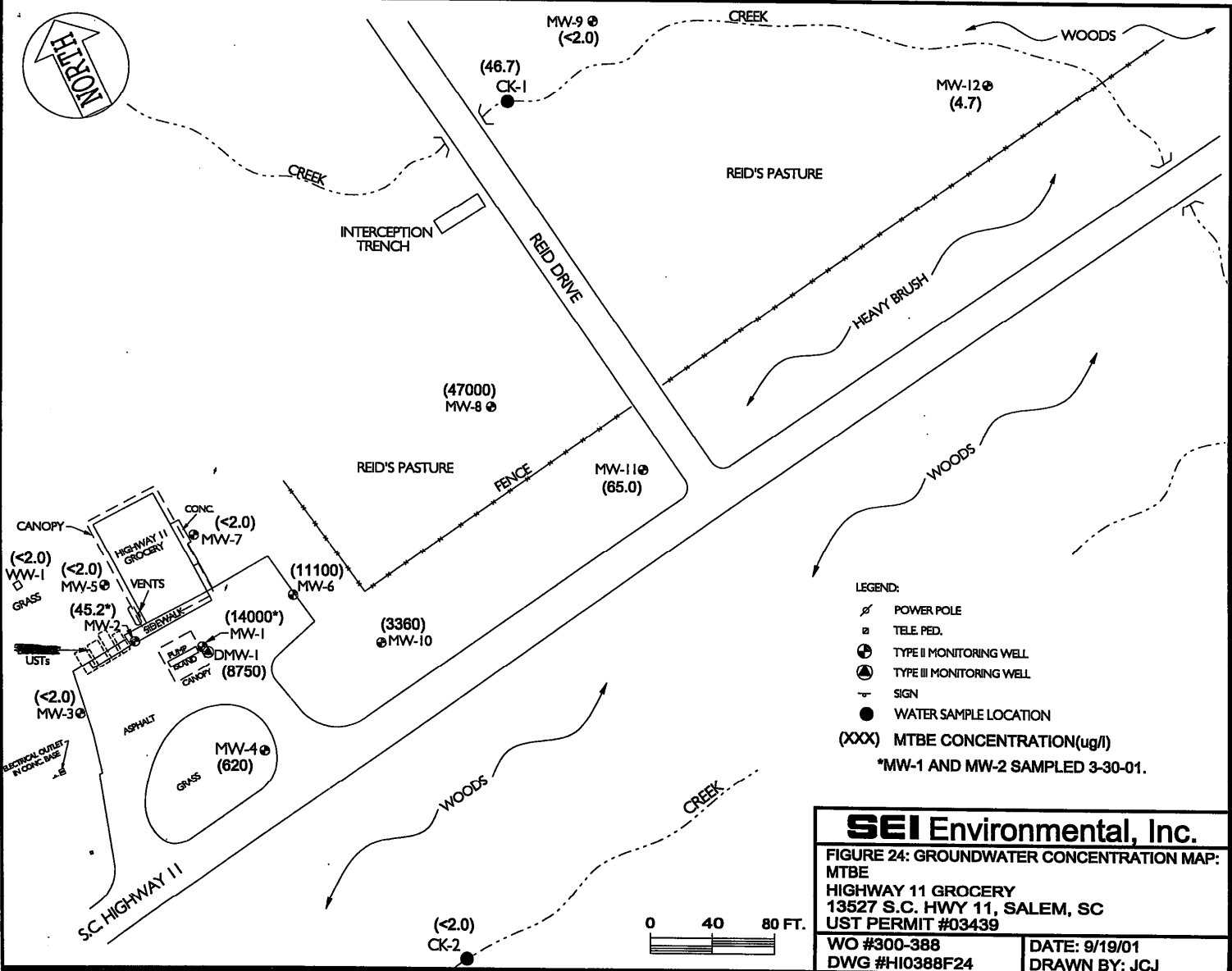
WO #300-388	DATE: 9/19/01
DWG #HI0388F22	DRAWN BY: JCJ



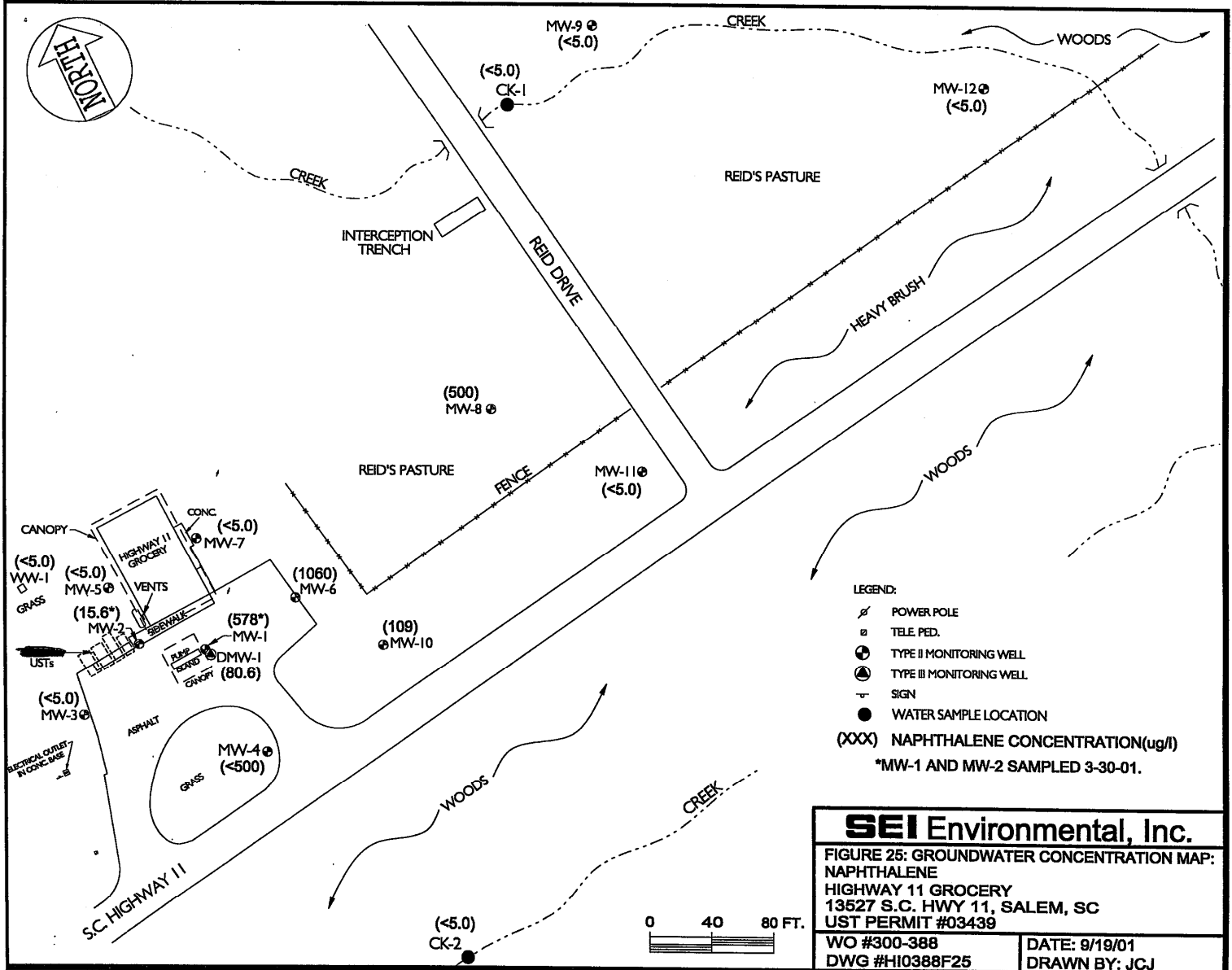
SEI Environmental, Inc.

FIGURE 23: GROUNDWATER CONCENTRATION MAP:
 XYLENES
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #HI0388F23	DRAWN BY: JCJ



Map labels include: CREEK, WOODS, REID'S PASTURE, HEAVY BRUSH, INTERCEPTION TRENCH, RED DRIVE, S.C. HIGHWAY 11, CANOPY, HIGHWAY 11 GROCERY, GRASS, ASPHALT, VENTS, USTs, SECTION OUTLET - NONC. USE, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, CK-1, CK-2, DMW-1, CONC., FENCE, and various MTBE concentration values in parentheses.

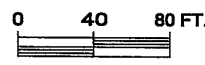
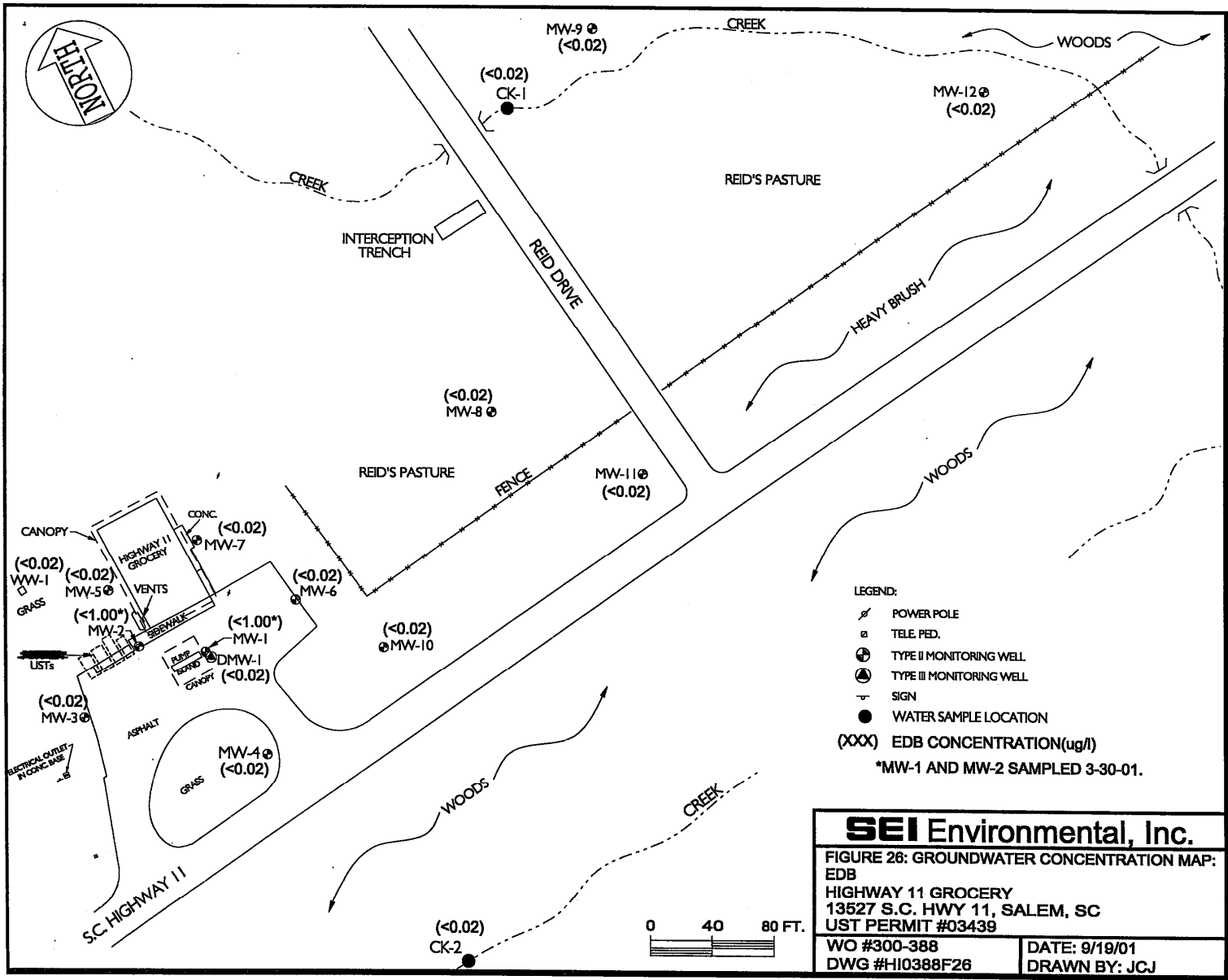


SEI Environmental, Inc.

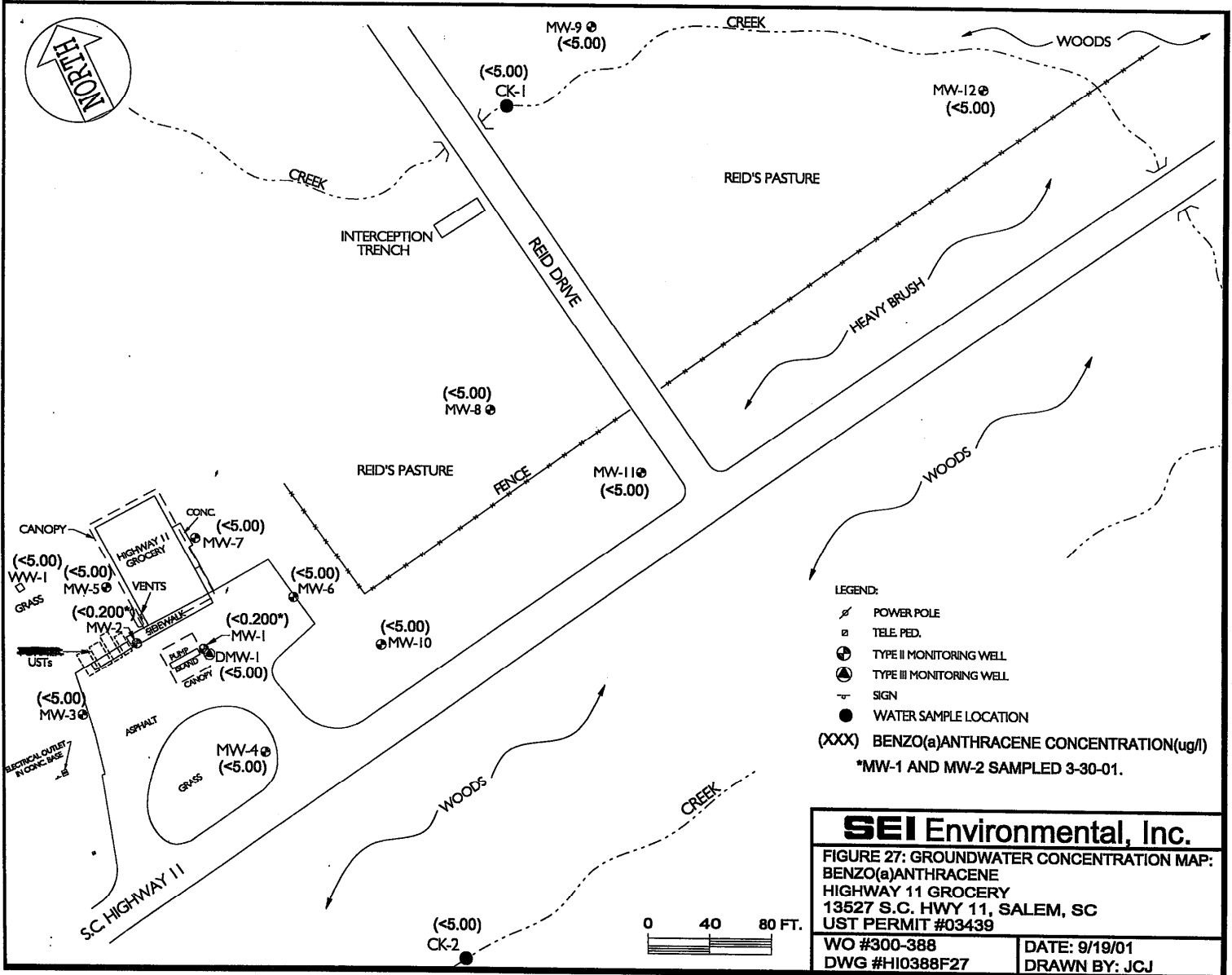
FIGURE 25: GROUNDWATER CONCENTRATION MAP:
NAPHTHALENE
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

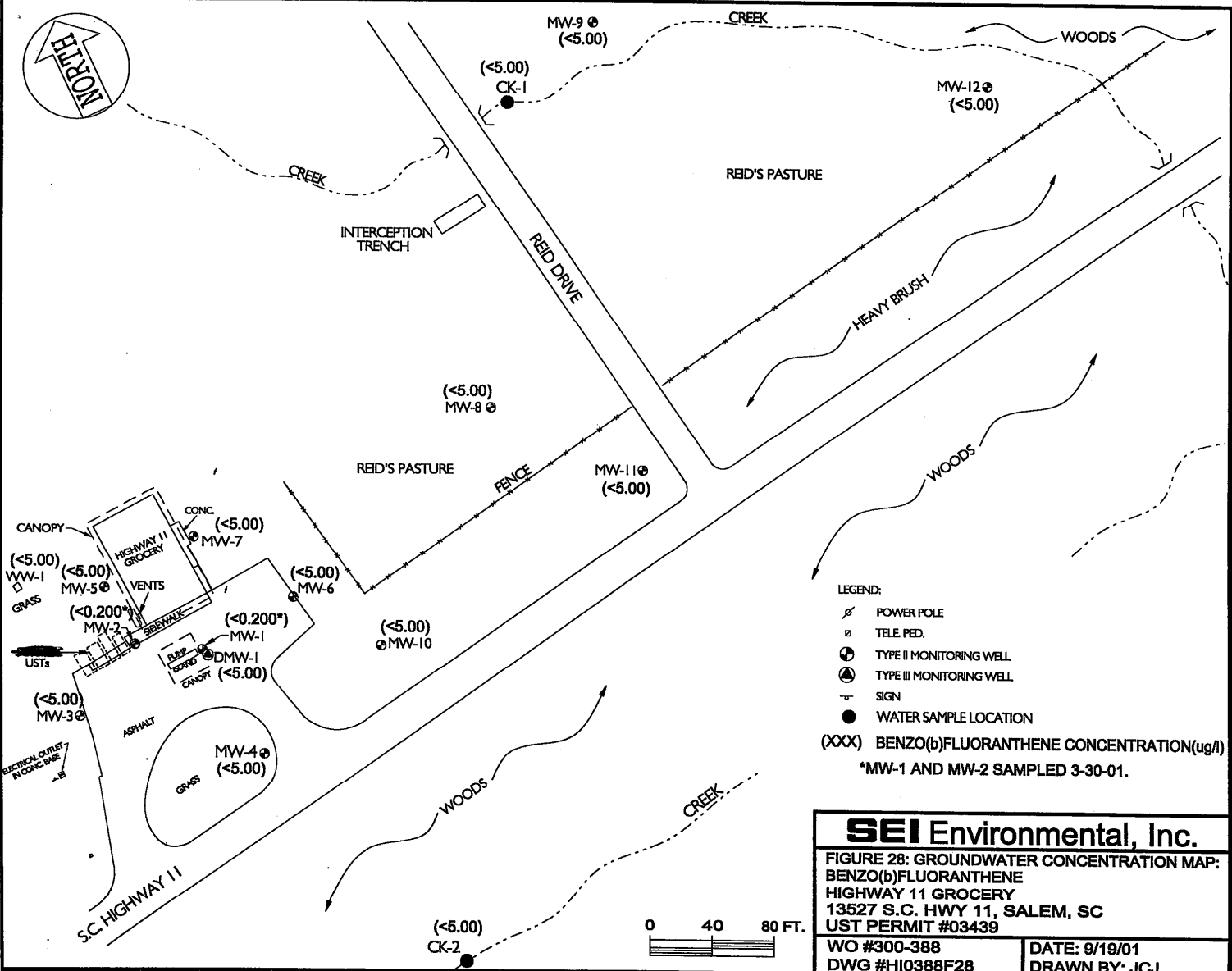
WO #300-388
DWG #H10388F25

DATE: 9/19/01
DRAWN BY: JCJ

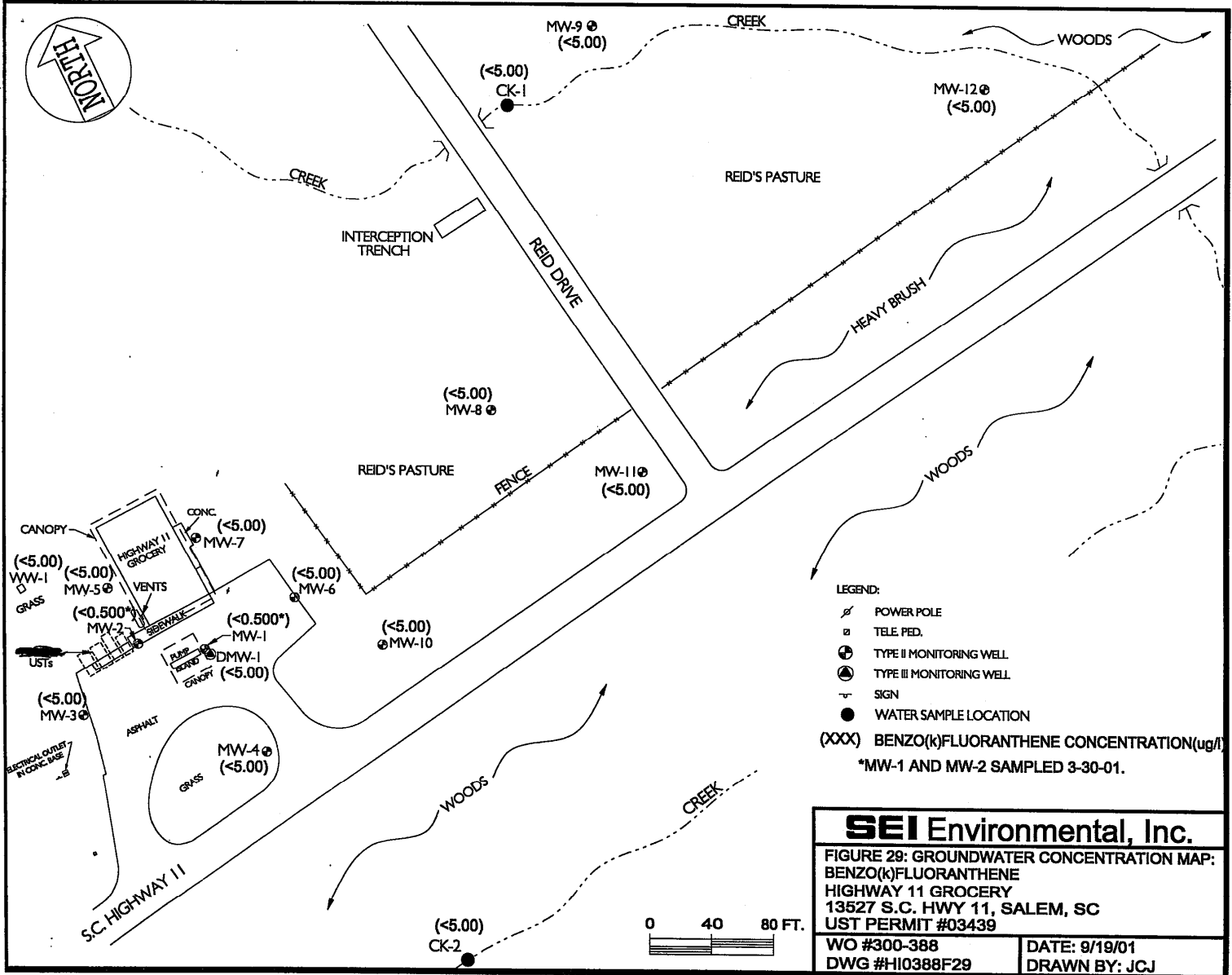


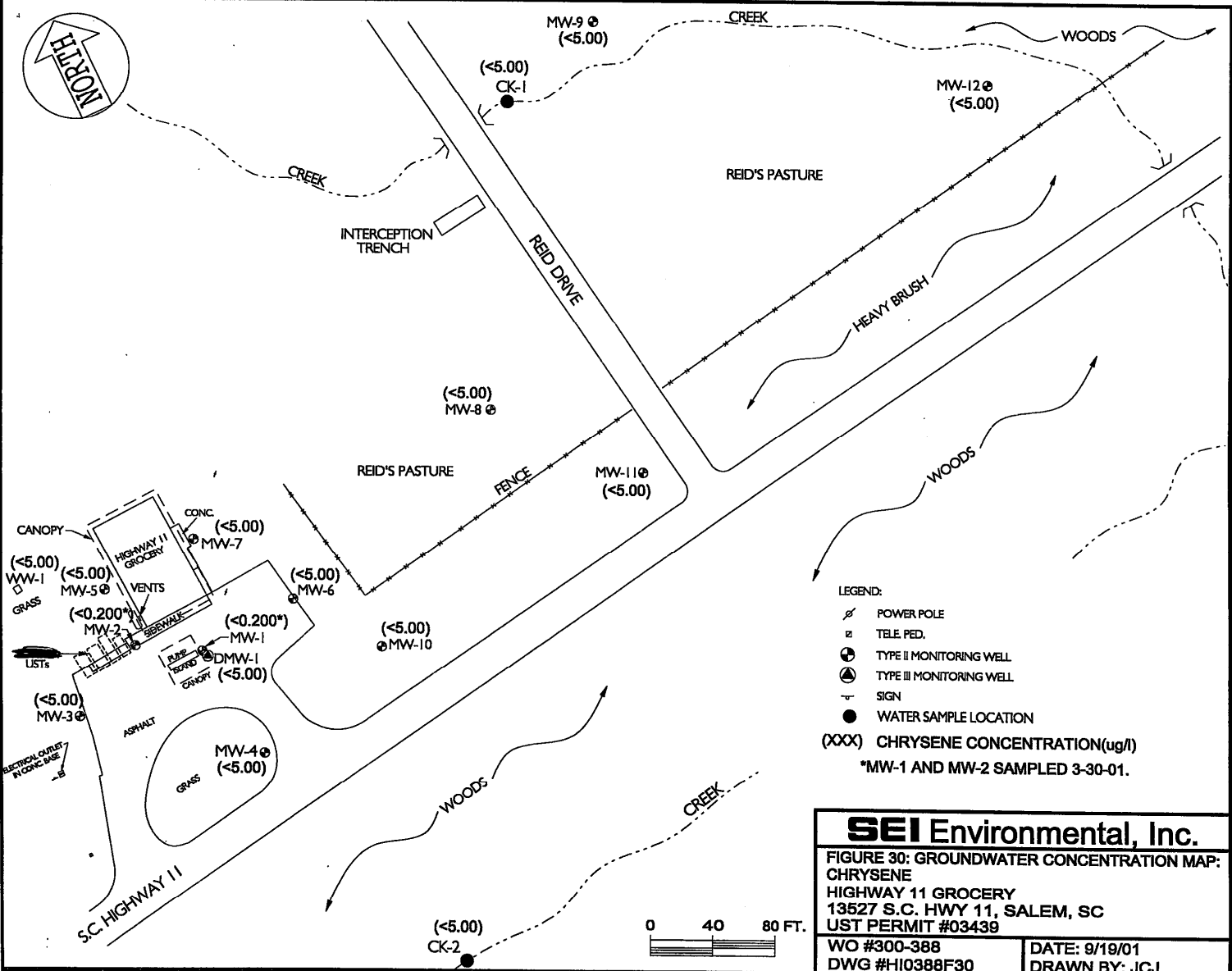
Map labels include: CREEK, WOODS, REID'S PASTURE, HEAVY BRUSH, INTERCEPTION TRENCH, REID DRIVE, S.C. HIGHWAY 11, CANOPY, HIGHWAY 11 GROCERY, CONC., VENTS, GRASS, ASPHALT, PUMP, SIGN, CANOPY, LIST, RECEPTION OUTLET, R/C CONC. BASE, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, CK-1, CK-2, DMW-1, and various EDB concentration values such as (<0.02), (<1.00*), and (<0.02).





SEI Environmental, Inc.	
FIGURE 28: GROUNDWATER CONCENTRATION MAP: BENZO(b)FLUORANTHENE HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
WO #300-388	DATE: 9/19/01
DWG #HI0388F28	DRAWN BY: JCJ





LEGEND:

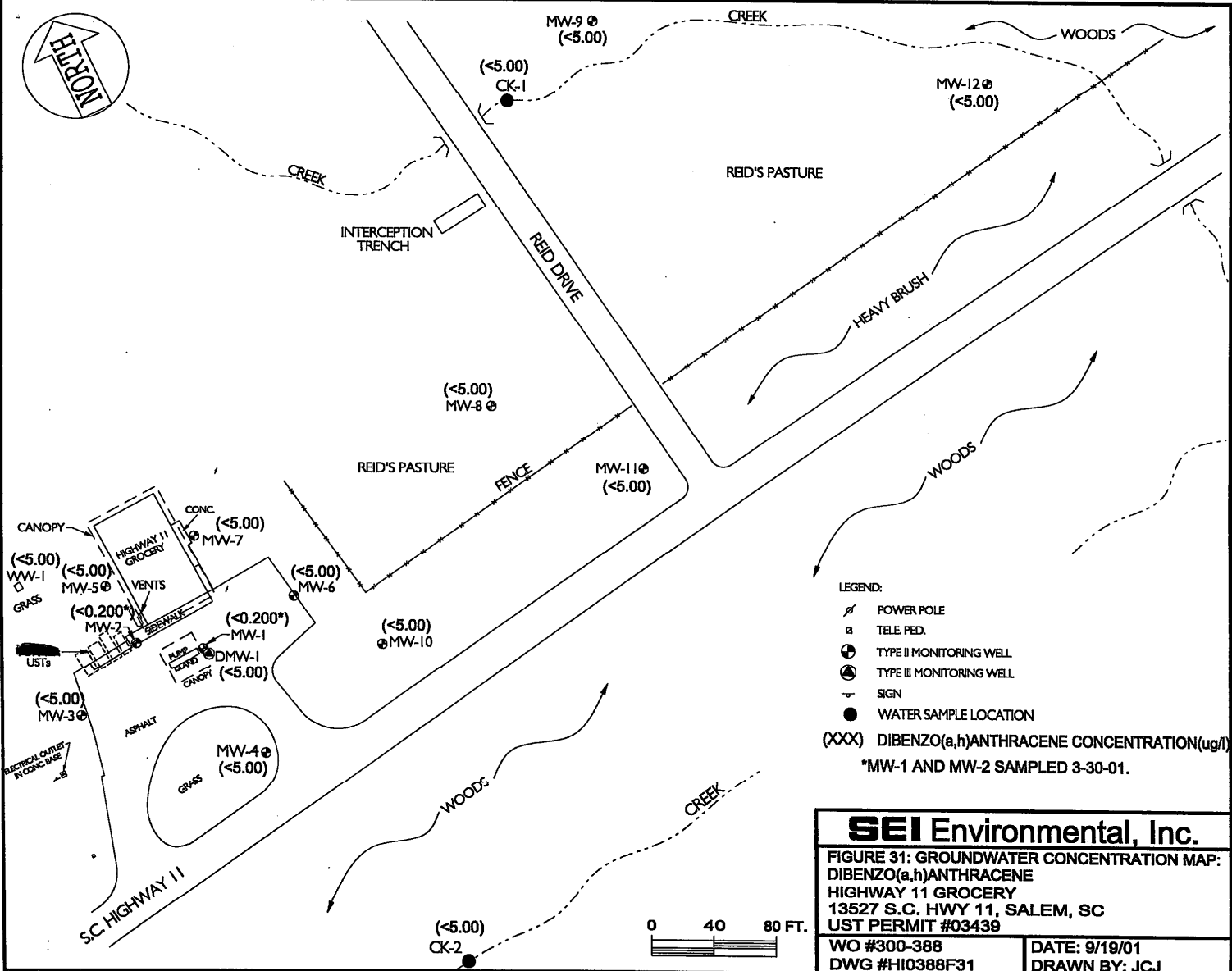
- ⊕ POWER POLE
- ⊞ TELE. PED.
- ⊙ TYPE II MONITORING WELL
- ⊕ TYPE III MONITORING WELL
- ⊞ SIGN
- WATER SAMPLE LOCATION

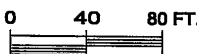
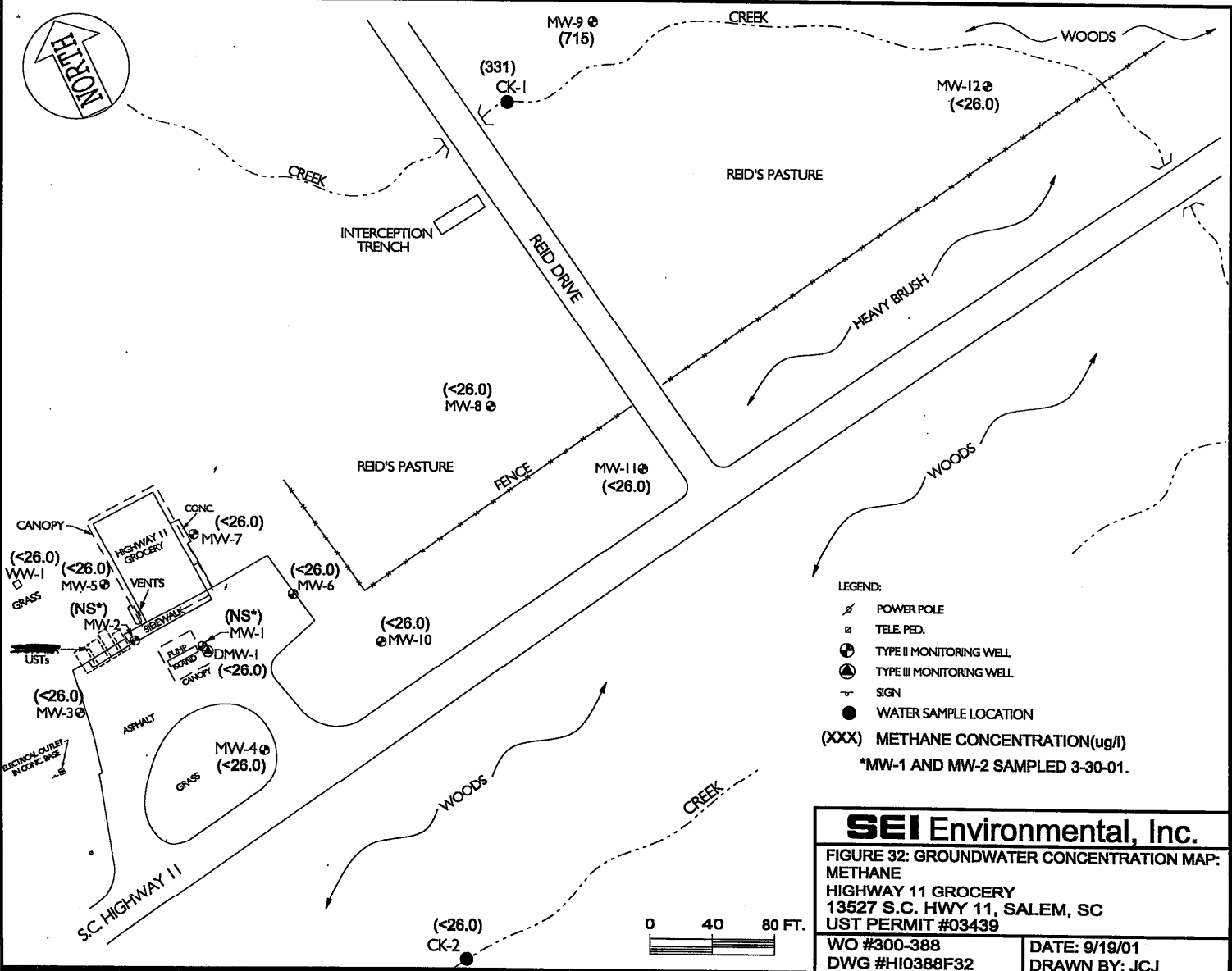
(XXX) CHRYSENE CONCENTRATION(ug/l)
 *MW-1 AND MW-2 SAMPLED 3-30-01.

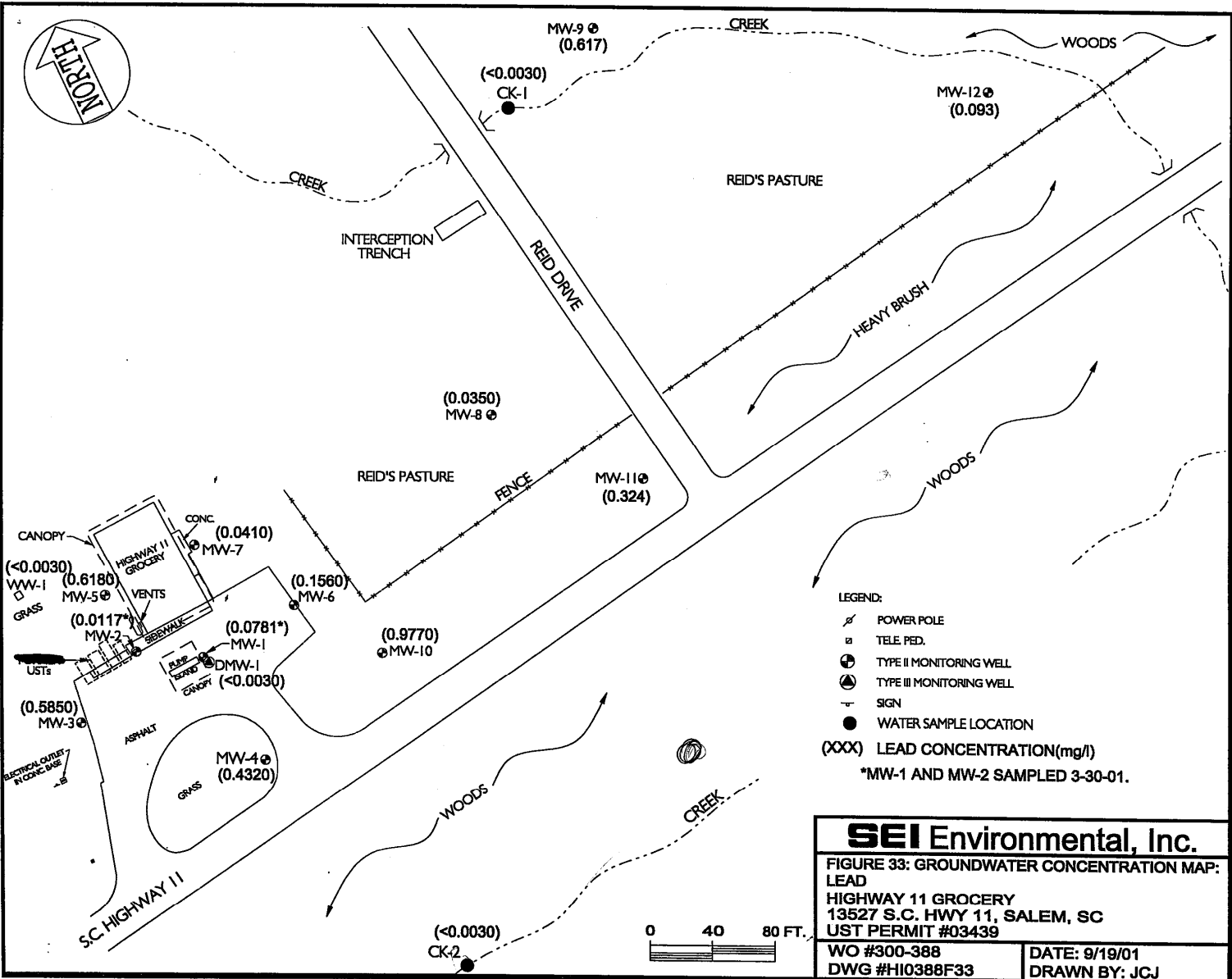
SEI Environmental, Inc.

FIGURE 30: GROUNDWATER CONCENTRATION MAP:
 CHRYSENE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #HI0388F30	DRAWN BY: JCJ



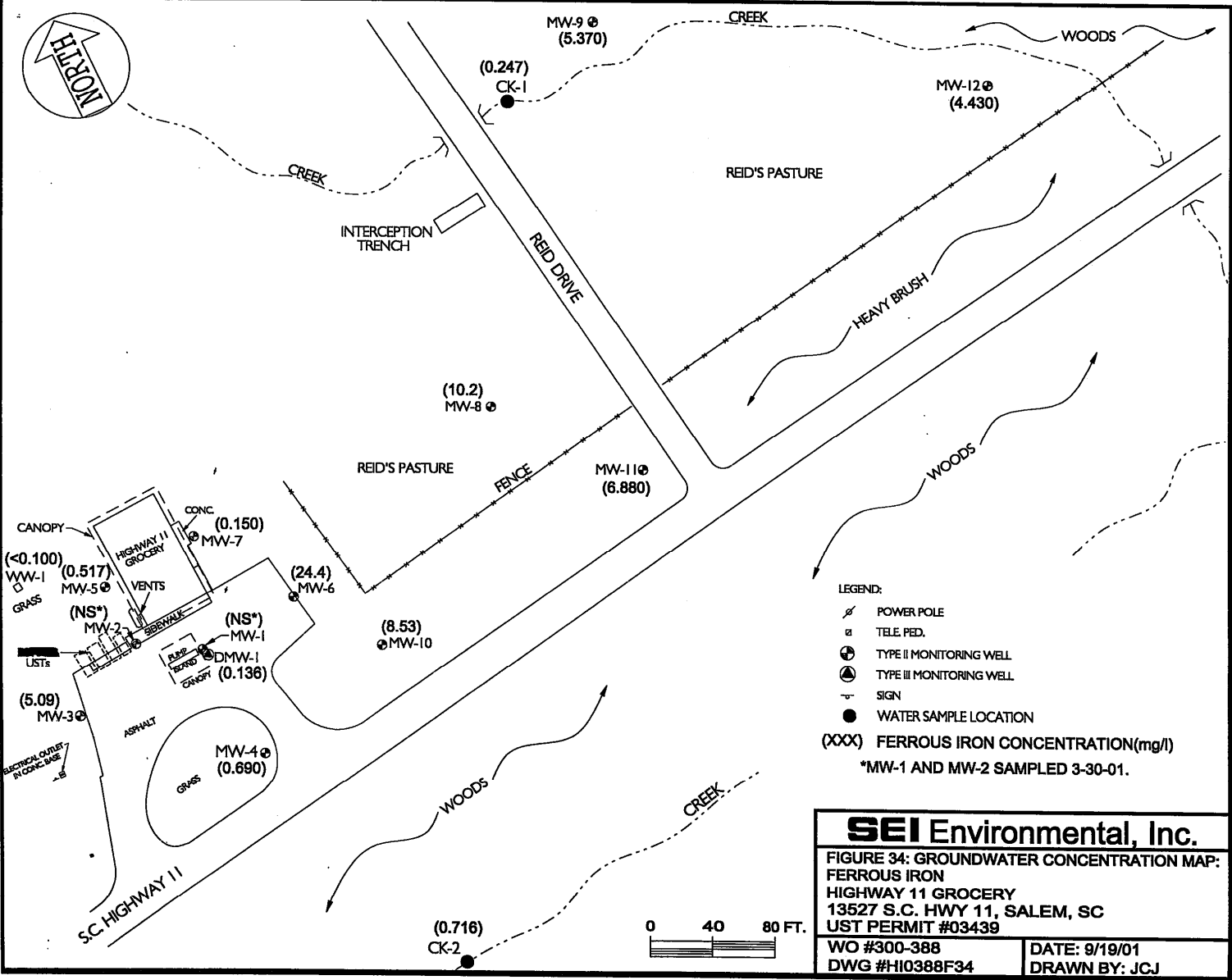




SEI Environmental, Inc.

FIGURE 33: GROUNDWATER CONCENTRATION MAP:
 LEAD
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #HI0388F33	DRAWN BY: JCJ



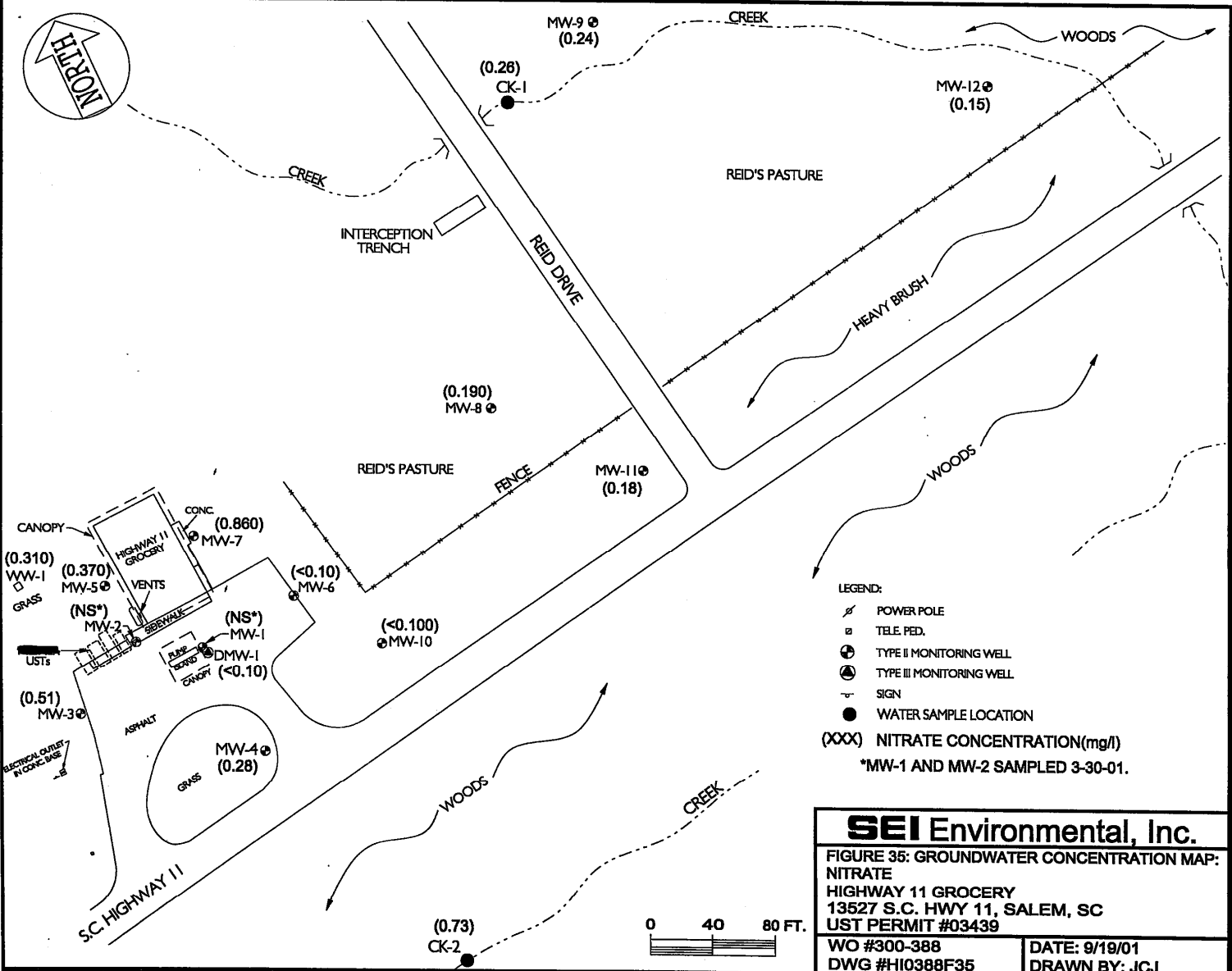
Map labels include: CREEK, WOODS, REID'S PASTURE, HEAVY BRUSH, RED DRIVE, INTERCEPTION TRENCH, CANOPY, HIGHWAY 11 GROCERY, GRASS, ASPHALT, VENTS, SUBURBALS, PUMP, FENCE, S.C. HIGHWAY 11, and ELECTRICAL OUTLET IN CONC. BASE.

Monitoring Well Data:

Well ID	Concentration (mg/l)
MW-1	(0.150)
MW-2	(NS*)
MW-3	(5.09)
MW-4	(0.690)
MW-5	(0.517)
MW-6	(24.4)
MW-7	(0.136)
MW-8	(10.2)
MW-9	(5.370)
MW-10	(8.53)
MW-11	(6.880)
MW-12	(4.430)

Catchment Kit Data:

Kit ID	Concentration (mg/l)
CK-1	(0.247)
CK-2	(0.716)



LEGEND:

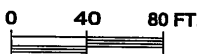
- ⚡ POWER POLE
- ◻ TELE. PED.
- ⊕ TYPE II MONITORING WELL
- ⊙ TYPE III MONITORING WELL
- ⌂ SIGN
- WATER SAMPLE LOCATION

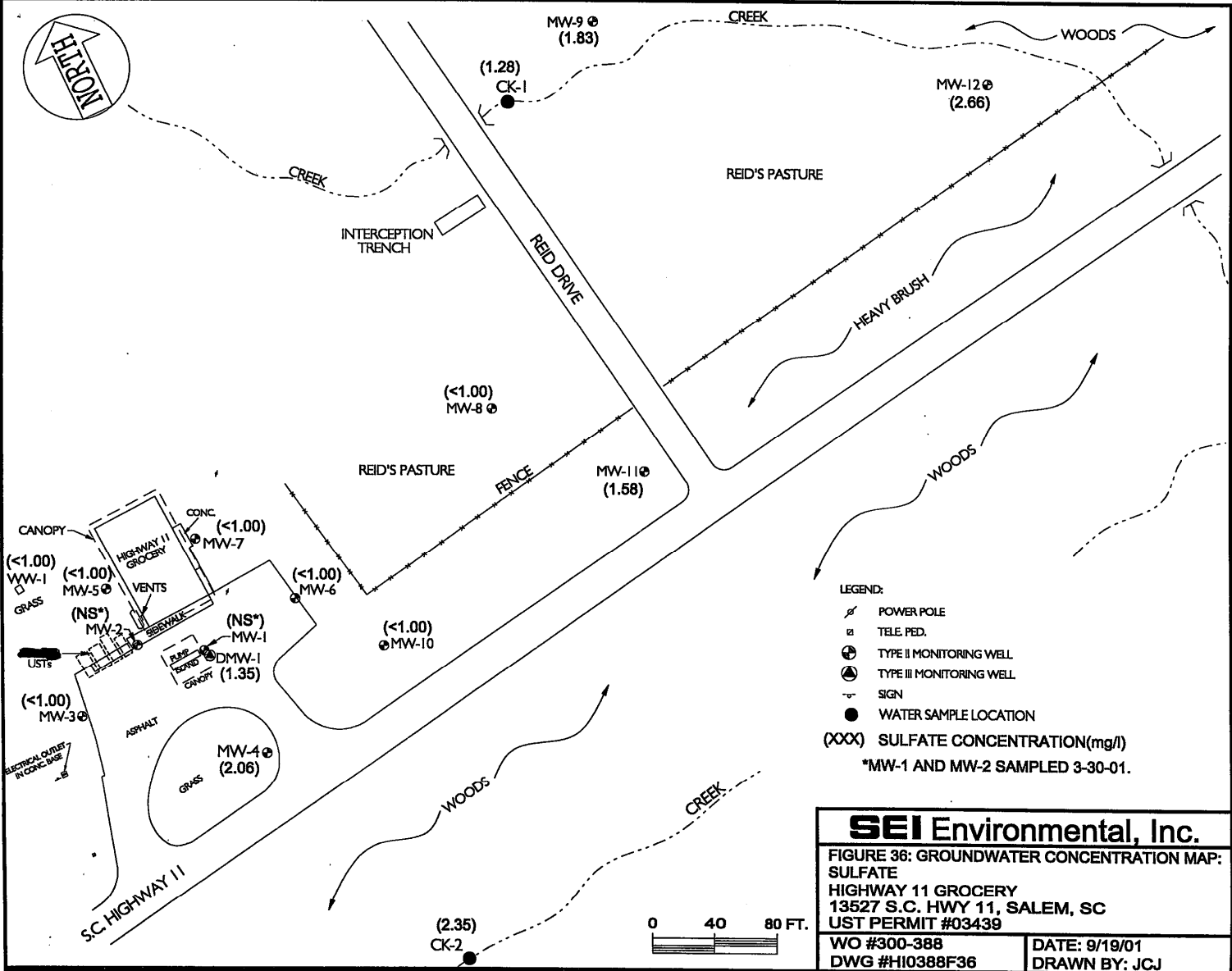
(XXX) NITRATE CONCENTRATION(mg/l)
 *MW-1 AND MW-2 SAMPLED 3-30-01.

SEI Environmental, Inc.

FIGURE 35: GROUNDWATER CONCENTRATION MAP:
 NITRATE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #HI0388F35	DRAWN BY: JCJ





LEGEND:

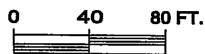
- ⊕ POWER POLE
- ⊞ TELE PED.
- ⊕ TYPE II MONITORING WELL
- ⊕ TYPE III MONITORING WELL
- ⊞ SIGN
- WATER SAMPLE LOCATION

(XXX) SULFATE CONCENTRATION(mg/l)
 *MW-1 AND MW-2 SAMPLED 3-30-01.

SEI Environmental, Inc.

FIGURE 36: GROUNDWATER CONCENTRATION MAP:
 SULFATE
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #300-388	DATE: 9/19/01
DWG #HI0388F36	DRAWN BY: JCJ



Borehole SB-1**Sampling Date: 07/09/01****Sample Depth: 2'-4'**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
0-2	1000+	Brown, soft, very fine grained sandy silt	Dry; strong petroleum odor
2-4	1000+	Brown, soft, very fine grained sandy silt	Dry; strong petroleum odor
4	Not Applicable	Refusal – Rock	Not Applicable

Borehole SB-2**Sampling Date: 07/09/01****Sample Depth: 2'-4'**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
0-2	7.0	Brown, soft, very fine to fine grained sandy silt	Dry; no petroleum odor
2-4	5.0	Brown, soft, very fine to fine grained sandy silt	Dry; no petroleum odor
4-6	4.0	Tan, soft, very fine grained sandy silt	Dry; no petroleum odor
6-8	4.0	Brown, soft, very fine to fine grained sandy silt	Dry; no petroleum odor
8-10	3.0	Brown, soft, very fine to fine grained sandy silt	Dry; no petroleum odor

Borehole SB-3**Sampling Date: 07/09/01****Sample Depth: 30'**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
5	70	Brown, soft, very fine grained sandy silt	Dry; no petroleum odor
10	330	Tan, soft, very fine grained sandy silt	Dry; slight petroleum odor
15	390	Brown, soft, very fine grained sandy silt	Dry; moderate petroleum odor
20	1000+	Brown, soft, very fine grained sandy silt	Dry; strong petroleum odor
25	1000+	Brown, soft, very fine grained sandy silt	Dry; strong petroleum odor
30	1000+	Brown, soft, very fine grained sandy silt	Dry; strong petroleum odor
32	1000+	Brown, soft, very fine grained sandy silt	Wet; strong petroleum odor

Borehole SB-4**Sampling Date: 07/09/01****Sample Depth: 2'-4'**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
0-2	1000+	Brown, soft, very fine to fine grained silty sand	Dry; strong petroleum odor
2-4	1000+	Brown, soft, very fine to fine grained silty sand	Dry; strong petroleum odor
4+	Not Applicable	Refusal – Rock	Not Applicable

Borehole SB-5**Sampling Date: 07/09/01****Sample Depth: 25'**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
5	0.0	Red, soft, very fine grained silty sand	Dry; no petroleum odor
10	47	Brown, soft, very fine grained silty sand	Dry; no petroleum odor
15	47	Brown, soft, very fine grained silty sand	Dry; no petroleum odor
20	51	Tan, soft, very fine grained silty sand	Dry; no petroleum odor
25	55	Tan, soft, very fine grained silty sand	Dry; no petroleum odor

Borehole SB-6**Sampling Date: 07/10/01****Sample Depth: Not Sampled**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
33	3.0	Brown, soft, very fine to medium grained silty sand	Wet; no petroleum odor

Borehole SB-7**Sampling Date: 07/11/01****Sample Depth: Not Sampled**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
35	120	Brown, soft, very fine to fine grained silty sand	Wet; slight petroleum odor

Borehole SB-8**Sampling Date: 07/11/01****Sample Depth: Not Sampled**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
35	1000+	Brown, soft, very fine to fine grained silty sand	Wet; strong petroleum odor

Borehole SB-9**Sampling Date: 08/20/01****Sample Depth: Not Sampled**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
5	Not Determined	Brownish-orange, soft, fine grained sandy clay loam	Dry; no petroleum odor
10	Not Determined	Brown, medium stiff, fine grained silty loam	Dry; no petroleum odor
15	Not Determined	Grayish-tan, soft, medium grained silty sand with mica	Dry; no petroleum odor
20	Not Determined	Grayish-tan, soft, medium grained silty sand with mica	Damp; no petroleum odor
24	72	Grayish-tan, soft, medium grained silty sand with mica	Wet; no petroleum odor

Borehole SB-11**Sampling Date: 08/20/01****Sample Depth: Not Sampled**

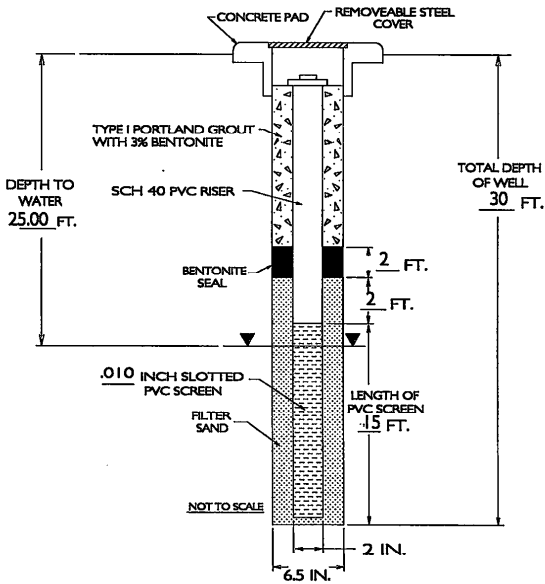
Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
5	Not Determined	Brownish-orange, soft, fine grained sandy clay loam	Dry; no petroleum odor
10	Not Determined	Brown, medium stiff, fine grained silty loam	Dry; no petroleum odor
15	Not Determined	Grayish-tan, soft, medium grained silty sand with mica	Dry; no petroleum odor
18	13.0	Grayish-tan, soft, fine to medium grained silty sand	Damp; no petroleum odor
18+	Not Applicable	Refusal – Rock	Not Applicable

Borehole SB-12**Sampling Date: 08/20/01****Sample Depth: Not Sampled**

Split Spoon Interval (ft)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/minerals present)	Soil Conditions (dry, moist, etc; petroleum odor)
5	7.0	Brownish-gray, soft, medium grained silty loam	Dry; no petroleum odor
10	830	Gray, soft, fine grained rock flour	Dry; strong petroleum odor

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-1 DATE DRILLED: 3/29/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 103.38 LAND SURFACE ELEV.: N/D

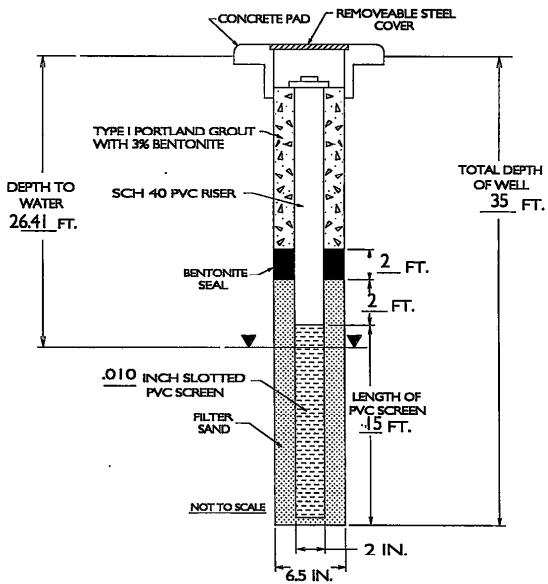


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	13	SW	TAN, SOFT, MEDIUM-GRAINED SAND
10		ND	ND	40	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE
15		ND	ND	1000+	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETRO ODOR
20		ND	ND	1000+	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETRO ODOR
25		ND	ND	1000+	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETRO ODOR
30		ND	ND	ND	ND	REFUSAL- ROCK
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-2 DATE DRILLED: 3/29/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 104.85 LAND SURFACE ELEV.: N/D



DRILLING METHOD: 2-1/4" HSA AND 5-7/8" AIR HAMMER

SAMPLING METHOD: SPLIT SPOON

GRAVEL PACK SIZE: 20/30 SILICA SAND

SLOT SIZE: 0.010"

COMMENTS:

TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.

NR = NO RESPONSE

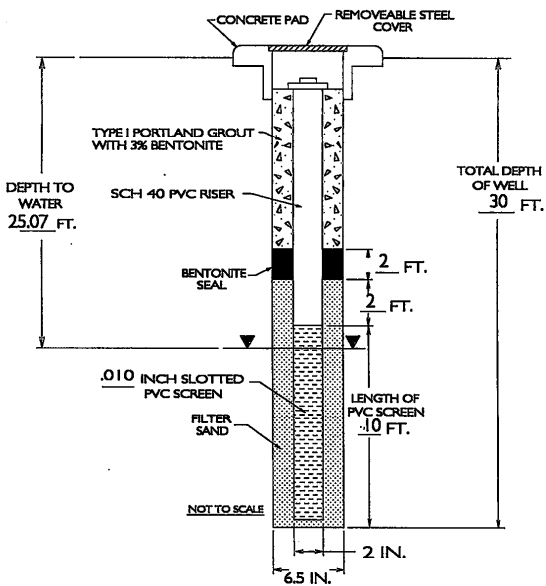
N/D = NOT DETERMINED

N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	10	ML	GRAY-TAN, STIFF, MEDIUM-GRAINED ROCK FLOUR
10		ND	ND	ND	ND	ROCK
15						
20						
25						
30						
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-3 DATE DRILLED: 7/9/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 104.89 LAND SURFACE ELEV.: N/D

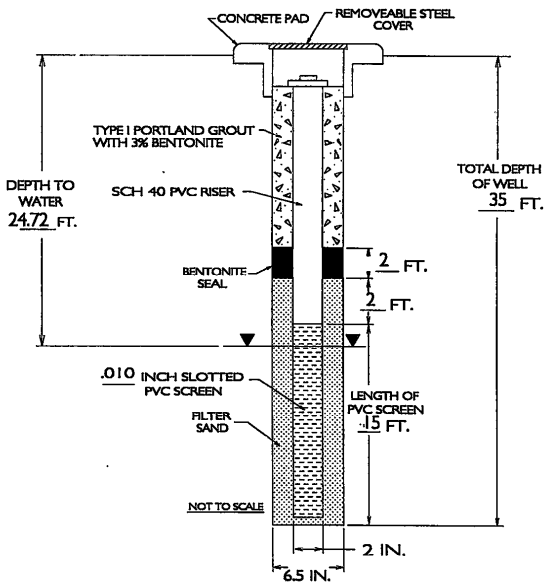


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	0.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
10		ND	ND	1.0	ML	BROWN, SOFT, VERY FINE-GRAINED SANDY SILT
15		ND	ND	0.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
20		ND	ND	5.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
25		ND	ND	17	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
30		ND	ND	16	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND; MOIST
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-4 DATE DRILLED: 7/10/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 99.90 LAND SURFACE ELEV.: N/D

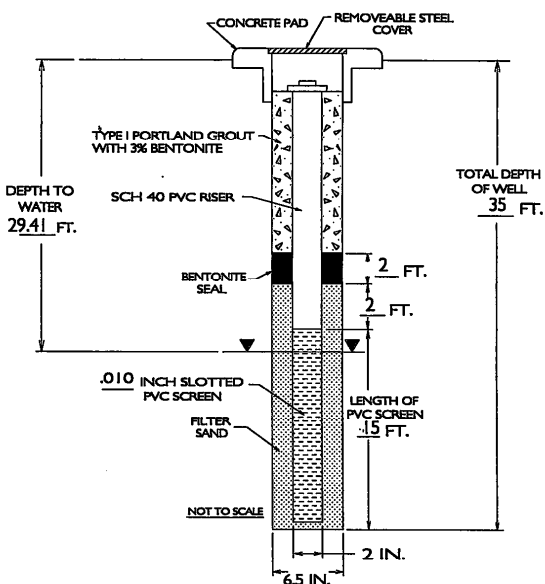


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	4.0	SM	BROWN, SOFT, FINE-GRAINED SILTY SAND
10		ND	ND	4.0	SM	RED, SOFT, VERY FINE-GRAINED SILTY SAND
15		ND	ND	14	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
20		ND	ND	8.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
25		ND	ND	8.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
30		ND	ND	11	SM	BROWN, SOFT, FINE-GRAINED SILTY SAND; MOIST
35		ND	ND	6.0	SM	BROWN, SOFT, FINE-GRAINED SILTY SAND; WET
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-5 DATE DRILLED: 7/10/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 106.06 LAND SURFACE ELEV.: N/D

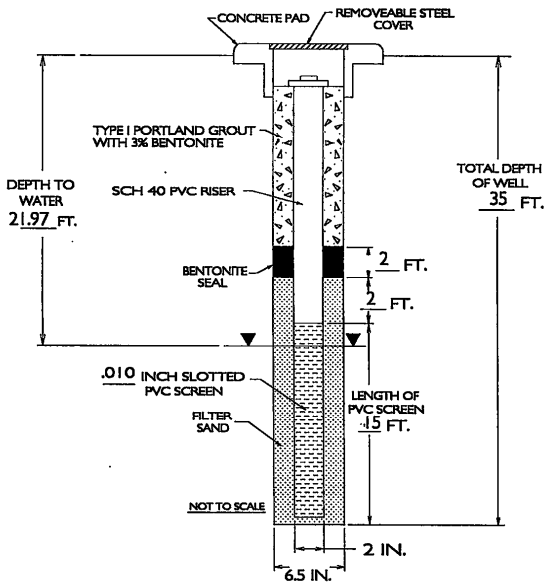


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	1.0	SM	BROWN, SOFT, FINE-GRAINED SILTY SAND
10		ND	ND	3.0	SM	RED, SOFT, VERY FINE-GRAINED SILTY SAND
15		ND	ND	6.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
20		ND	ND	7.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
25		ND	ND	8.0	SM	TAN, SOFT, FINE-GRAINED SILTY SAND
30		ND	ND	13	SM	BROWN, SOFT, FINE-GRAINED SILTY SAND; MOIST
35		ND	ND	1.0	SM	BROWN, SOFT, FINE-GRAINED SILTY SAND; WET
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-6 DATE DRILLED: 7/10/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 100.00 LAND SURFACE ELEV.: N/D

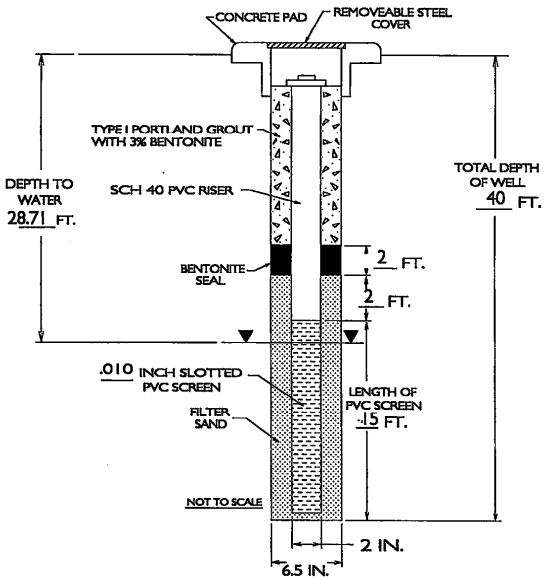


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH (FT)	SAMPLE NUMBER	BLOW COUNT	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	22	SM	BROWN-RED, SOFT, FINE-GRAINED SILTY SAND
10		ND	41	ML	TAN, SOFT, VERY FINE-GRAINED SANDY SILT
15		ND	11	ML	TAN, SOFT, VERY FINE-GRAINED SANDY SILT
20		ND	100	ML	BROWN, SOFT, VERY FINE-GRAINED SANDY SILT
25		ND	1000+	ML	BROWN, SOFT, VERY FINE-GRAINED SANDY SILT; STRONG PETRO ODOR
30		ND	1000+	ML	BROWN, SOFT, VERY FINE-GRAINED SANDY SILT; STRONG PETRO ODOR
35		ND	1000+	ML	BROWN, SOFT, VERY FINE-GRAINED SANDY SILT; STRONG PETRO ODOR
40					

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-7 DATE DRILLED: 7/11/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 103.66 LAND SURFACE ELEV.: N/D

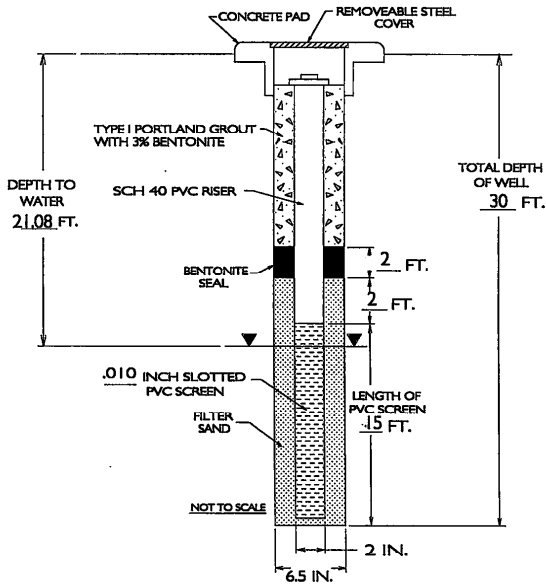


DRILLING METHOD: 2-1/4" HSA AND 5-7/8" AIR HAMMER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	1.0	SM	BROWN-RED, SOFT, FINE-GRAINED SILTY SAND
10		ND	ND	0.0	ML	TAN, SOFT, VERY FINE-GRAINED SANDY SILT
15		ND	ND	9.0	ML	TAN, SOFT, VERY FINE-GRAINED SANDY SILT
20		ND	ND	3.0	ML	BROWN, SOFT, VERY FINE-GRAINED SANDY SILT
25		ND	ND	ND	ND	ROCK
30		ND	ND	ND	ND	ROCK
35		ND	ND	ND	ND	ROCK
40		ND	ND	ND	ND	ROCK

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-8 DATE DRILLED: 7/12/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 86.51 LAND SURFACE ELEV.: N/D

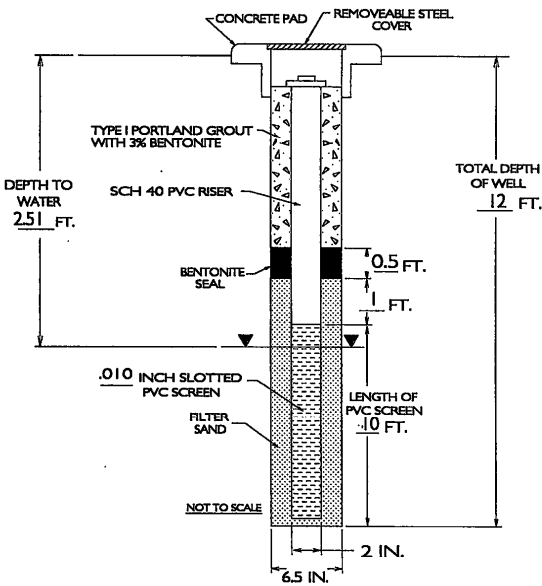


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFED METHOD	DESCRIPTIVE LOG
5		ND	ND	2.0	SM	RED, SOFT, VERY FINE-GRAINED SILTY SAND
10		ND	ND	3.0	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND
15		ND	ND	8.0	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND
20		ND	ND	600	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND; STRONG PETRO ODOR
25		ND	ND	600	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND; STRONG PETRO ODOR
30		ND	ND	200	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND, WET; STRONG PETRO ODOR
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-9 DATE DRILLED: 8/20/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 58.39 LAND SURFACE ELEV.: N/D

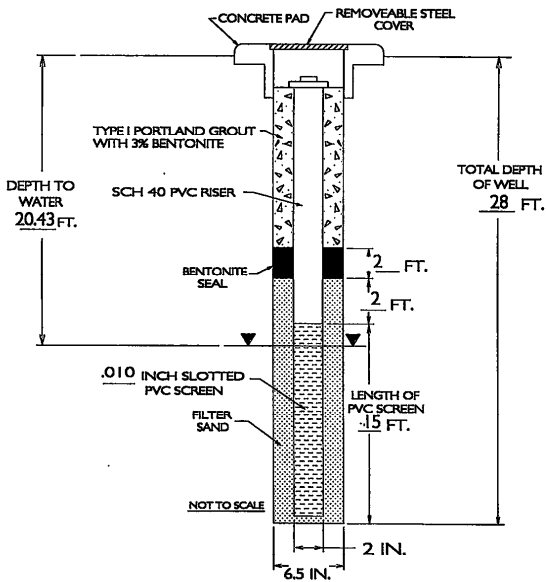


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH (FT.)	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	ND	CL	BROWN, SOFT, FINE SANDY CLAY; WET
10		ND	ND	8.0	CL	BROWN, SOFT, FINE SANDY CLAY; WET
15						
20						
25						
30						
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-10 DATE DRILLED: 7/11/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 93.78 LAND SURFACE ELEV.: N/D



DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER

SAMPLING METHOD: SPLIT SPOON

GRAVEL PACK SIZE: 20/30 SILICA SAND

SLOT SIZE: 0.010"

COMMENTS:

TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.

NR = NO RESPONSE

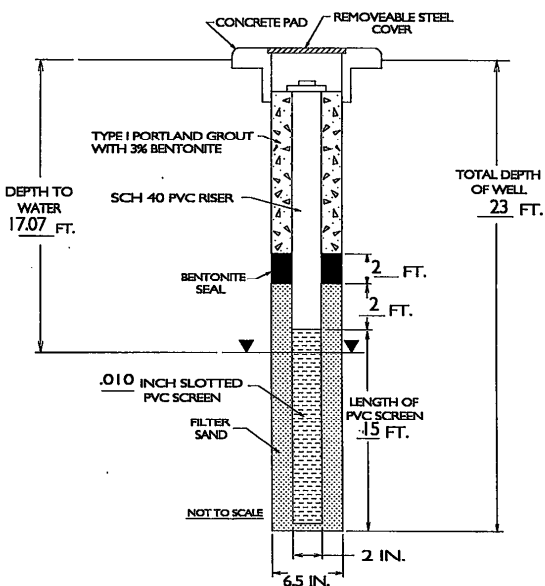
N/D = NOT DETERMINED

N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	1.0	SM	RED, SOFT, FINE-GRAINED SILTY SAND
10		ND	ND	1.0	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND
15		ND	ND	1.0	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND
20		ND	ND	3.0	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND
25		ND	ND	36	SM	BROWN, SOFT, VERY FINE-GRAINED SILTY SAND; MOIST
30						
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-11 DATE DRILLED: 8/23/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 83.20 LAND SURFACE ELEV.: N/D

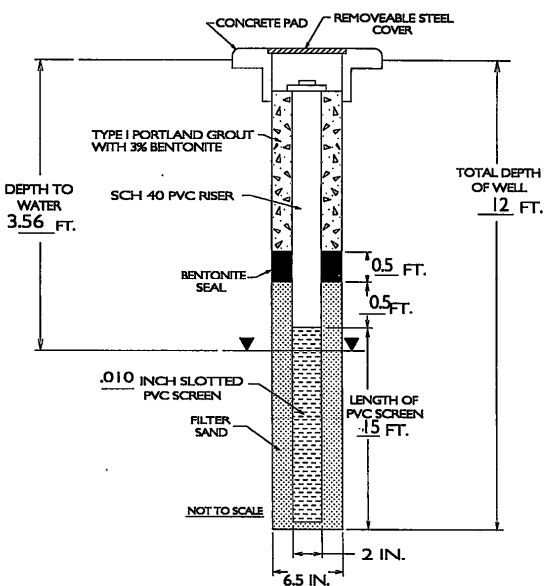


DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	ND	CL	ORANGE, SOFT, FINE-GRAINED SANDY CLAY LOAM
10		ND	ND	ND	ML	TAN, SOFT, MEDIUM-GRAINED SILTY LOAM, MICA
15		ND	ND	8.0	SM	GRAY-TAN, SOFT, FINE TO MEDIUM-GRAINED SILTY SAND, MICA
18		ND	ND	ND	ND	ROCK
20		ND	ND	4.0	CL	BROWN, SOFT, FINE-GRAINED CLAY LOAM; WET
25						
30						
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-12 DATE DRILLED: 8/23/01
 STATE PERMIT #: 15115 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13529 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 58.69 LAND SURFACE ELEV.: N/D



DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: .0010"
 COMMENTS:
 TOP OF CASING ELEVATION REFERS TO AN ASSUMED ELEVATION.
 NR = NO RESPONSE
 N/D = NOT DETERMINED
 N/A = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	0.0	CL	BROWN, SOFT, MEDIUM-GRAINED SANDY CLAY LOAM; MOIST
10		ND	ND	0.0	CL	BROWN, SOFT, FINE-GRAINED SANDY CLAY LOAM; WET
15						
20						
25						
30						
35						
40						

Soil Analytical Results									
Highway 11 Grocery / Salem, South Carolina									
Chemical of Concern	RBSL (mg/kg)	SB-1 (mg/kg)	SB-2 (mg/kg)	SB-3 (mg/kg)	SB-4 (mg/kg)	SB-5 (mg/kg)	MW-1* (mg/kg)	MW-2* (mg/kg)	MW-3 (mg/kg)
Benzene	0.007	<0.0500	<0.0010	<0.0010	<0.0010	<0.0010	93.68	0.0063	<0.0010
Toluene	1.450	<0.0500	<0.0010	0.0038	<0.0010	<0.0010	678.2	0.0206	<0.0010
Ethylbenzene	1.150	<0.0500	<0.0010	<0.0010	<0.0010	<0.0010	678.2	<0.0023	<0.0010
Xylenes	14.500	0.3000	0.0028	0.0052	0.0049	<0.0010	1061	0.0078	0.0029
Total BTEX	NA	<0.4500	<0.0058	<0.0110	<0.0079	<0.0040	2511.08	<0.0370	<0.0059
Naphthalene	0.036	12.50	0.0060	0.0094	<0.0010	<0.0010	110.3	<0.0059	0.0070
TPH	NA	NS	NS	NS	NS	NS	NS	NS	NS
Total Organic Carbon	NA	NS	NS	NS	NS	NS	NS	NS	<1000
Benzo(a)anthracene	0.066	NS	NS	NS	NS	NS	<1.87	<0.089	NS
Benzo(b)fluoranthene	0.066	NS	NS	NS	NS	NS	<1.87	<0.089	NS
Benzo(k)fluoranthene	0.066	NS	NS	NS	NS	NS	<1.87	<0.089	NS
Chrysene	0.066	NS	NS	NS	NS	NS	<1.87	<0.089	NS
Dibenzo(a,h)anthracene	0.066	NS	NS	NS	NS	NS	<1.87	<0.089	NS

RBSLs are those for sandy soil; NA = Not Applicable; NS = Not Sampled

*Sampled March 29, 2001, during the previous assessment activities

Soil Analytical Results (continued)							
Highway 11 Grocery / Salem, South Carolina							
Chemical of Concern	RBSL (mg/kg)	MW-4 (mg/kg)	MW-5 (mg/kg)	MW-6 (mg/kg)	MW-7 (mg/kg)	MW-8 (mg/kg)	DMW-1 (mg/kg)
Benzene	0.007	<0.0010	<0.0010	0.0020	<0.0010	<0.0010	NS
Toluene	1.450	<0.0010	<0.0010	0.0168	<0.0010	<0.0010	NS
Ethylbenzene	1.150	<0.0010	<0.0010	0.0058	<0.0010	<0.0010	NS
Xylenes	14.500	0.0028	<0.0010	0.0339	<0.0010	<0.0010	NS
Total BTEX	NA	<0.0058	<0.0040	0.0585	<0.0040	<0.0040	NA
Naphthalene	0.036	0.0050	<0.0010	0.0340	<0.0010	<0.0010	NS
TPH	NA	NS	NS	NS	NS	NS	57.6
Total Organic Carbon	NA	NS	NS	NS	NS	NS	NS
Benzo(a)anthracene	0.066	NS	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	0.066	NS	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.066	NS	NS	NS	NS	NS	NS
Chrysene	0.066	NS	NS	NS	NS	NS	NS
Dibenzo(a,h)anthracene	0.066	NS	NS	NS	NS	NS	NS

RBSLs are those for sandy soil; NA = Not Applicable; NS = Not Sampled

Wisconsin Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 7/16/01
 Personnel: J. WEYANO, J. MONEGHAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____
 pH=4.0 _____
 pH=7.0 _____
 pH=10.0 _____

Conductivity Meter serial no. _____
 standard _____
 standard _____
 standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
 Site ID#: 300388
 Monitoring Well # MW4
 Well Diameter (D): 2" _____ feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 24.08 feet
 Total Well Depth (TWD) 35 feet
 Length of the water column (LWC = TWD - DGW) 10.92 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.78 gals
 3 casing volume 3 X CV = 5.34 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.34 gals.
 * If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial					Post sampling
	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	
Time (military)						
pH (s.u.)						
Specific Cond. (µmhos/cm)						
Water Temperature (°C)						
Turbidity (subjective : clear, slightly cloudy, cloudy)						
Dissolved Oxygen						
PID readings, if required						
Remarks : <u>Initial</u>						<u>1155</u>

Illinois Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 7/16/01
Field Personnel: J. WEYAND, J. MONEGHAN
General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____
pH=7.0 _____
pH=10.0 _____

Conductivity Meter serial no. _____
standard _____
standard _____
standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
Site ID#: 300388
Monitoring Well # MW6

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
Depth to Ground Water (DGW) 22.79 feet
Total Well Depth (TWD) 35 feet
Length of the water column (LWC = TWD - DGW) 12.21 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.99 gals
3 casing volume 3 X CV = 5.97 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1310</u>
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks: <u>Initial vol</u>							

Date (mm/dd/yy): 7/16/01
 Field Personnel: J. WEYAND, J. MONEGAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance
 pH Meter serial no. _____
 pH=4.0 _____
 pH=7.0 _____
 pH=10.0 _____
 Conductivity Meter serial no. _____
 standard _____
 standard _____
 standard _____

Chain of Custody
 Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
 Site ID#: 300388
 Monitoring Well # MW7
 Well Diameter (D): 2" feet
 Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well $C = 0.163$
 for a 4 inch well $C = 0.652$
 * Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 29.44 feet
 Total Well Depth (TWD) 40 feet
 Length of the water column (LWC = TWD - DGW) 10.56 feet
 1 casing volume (CV = LWC X C) = _____ X _____ = _____ gals
 3 casing volume 3 X CV = 5.16 gals (standard purge volume) = 1.72 gals
 Total Volume of Water Purged Before Sampling 5.16 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks :							

1430
 4.09
 .025
 18.4
 cloudy
 6.58

4.06
 .025
 18.4
 cloudy
 6.17
 6.16

4.81
 .039
 19.9
 cloudy
 4.07

Illinois Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 7/16/01
Field Personnel: T. WEYAND, J. MONEGHAN
General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter
serial no. _____
pH=4.0 _____
pH=7.0 _____
pH=10.0 _____

Conductivity Meter
serial no. _____
standard _____
standard _____
standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
Site ID#: 300388
Monitoring Well # MWB

Well Diameter (D): 2 feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
Depth to Ground Water (DGW) 21.50 feet
Total Well Depth (TWD) 30 feet
Length of the water column (LWC = TWD - DGW) 8.5 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.39 gals
3 casing volume 3 X CV = 4.17 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1400</u>
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks:							

Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

1/16/01

J. WEYAND, J. MONEGHAN

Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter
serial no. _____
pH=4.0 _____
pH=7.0 _____
pH=10.0 _____

Conductivity Meter
serial no. _____
standard _____
standard _____
standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: Highway 11 Grocery
Site ID#: 300388 Monitoring Well # MW10
Well Diameter (D): 2 inches
Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
* Free Product Thickness: _____ feet
Depth to Ground Water (DGW) 20.78 feet
Total Well Depth (TWD) 28 feet
Length of the water column (LWC = TWD - DGW) 7.22 feet
1 casing volume (CV = LWC X C) = _____ X _____ = 1.18 gals
3 casing volume 3 X CV = 3.54 gals (standard purge volume)
Total Volume of Water Purged Before Sampling 3.54 gals.
* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							1350
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks: <u>Not to be used</u>							

Groundwater Analytical Results									
Highway 11 Grocery / Salem, South Carolina									
Chemical of Concern	RBSL (µg/l)	MW-1* (µg/l)	MW-2* (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	None
Benzene	5	4800	15.1	<2.0	1500	<2.0	5700	18.3	17100
Toluene	1000	7300	61.7	4.1	7460	<2.0	25800	25.0	34400
Ethylbenzene	700	3430	9.61	<2.0	1400	<2.0	4760	2.1	3060
Xylenes	10000	9800	52.0	8.2	7740	<2.0	22700	17.5	14800
Total BTEX	NA	25330	138.41	<16.3	18100	<8.0	58960	62.9	69360
MTBE	40	14000	45.2	<2.0	620	<2.0	11100	<2.0	47000
Naphthalene	25	578	15.6	<5.0	<500	<5.0	1060	<5.0	500
EDB	0.05	<1.00	<1.00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	10	<0.200	<0.200	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(b)fluoranthene	10	<0.200	<0.200	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(k)fluoranthene	10	<0.500	<0.500	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene	10	<2.00	<2.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibenzo(a,h)anthracene	10	<0.200	<0.200	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Methane	NA	NS	NS	<26.0	<26.0	<26.0	<26.0	<26.0	<26.0

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*Sampled March 30, 2001, during the previous assessment activities

Groundwater Analytical Results (continued)									
Highway 11 Grocery / Salem, South Carolina									
Chemical of Concern	RBSL (mg/l)	MW-1* (mg/l)	MW-2* (mg/l)	MW-3 (mg/l)	MW-4 (mg/l)	MW-5 (mg/l)	MW-6 (mg/l)	MW-7 (mg/l)	MW-8 (mg/l)
Lead	0.015	0.0781	0.0117	0.5850	0.4320	0.6180	0.1560	0.0410	0.0350
Ferrous Iron	NA	NS	NS	5.09	0.690	0.517	24.4	0.150	10.2
Nitrate	NA	NS	NS	0.51	0.28	0.370	<0.10	0.860	0.190
Sulfate	NA	NS	NS	<1.00	2.06	<1.00	<1.00	<1.00	<1.00

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

***Sampled March 30, 2001, during the previous assessment activities**

Groundwater Analytical Results (continued)

Highway 11 Grocery / Salem, South Carolina

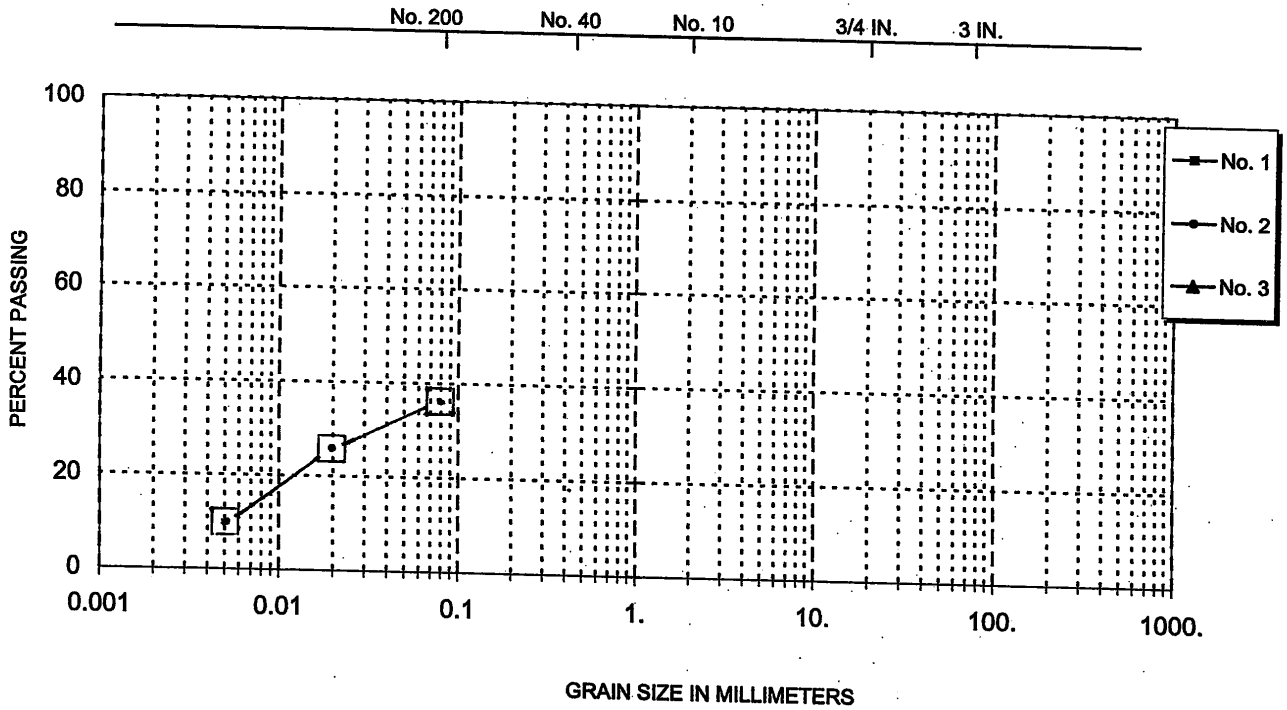
Chemical of Concern	RBSL (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)	DMW-1 (µg/l)	CK-1 (µg/l)	CK-2 (µg/l)	WW-1 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	NA	NA	NA
Benzene	5	<2.0	1970	398	<2.0	2060	53.4	<2.0	<2.0
Toluene	1000	<2.0	5500	2.3	<2.0	4320	78.0	<2.0	<2.0
Ethylbenzene	700	<2.0	350	4.4	<2.0	335	15.2	<2.0	<2.0
Xylenes	10000	<2.0	3150	170	<2.0	2180	77.8	<2.0	<2.0
Total BTEX	NA	<8.0	10970	574.7	<8.0	8895	224.4	<8.0	<8.0
MTBE	40	<2.0	3360	65.0	4.7	8750	46.7	<2.0	<2.0
Naphthalene	25	<5.0	109	<5.0	<5.0	80.6	<5.0	<5.0	<5.0
EDB	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(b)fluoranthene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(k)fluoranthene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibenzo(a,h)anthracene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Methane	NA	715	<26.0	<26.0	<26.0	<26.0	331	<26.0	<26.0

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable

Groundwater Analytical Results (continued)									
Highway 11 Grocery / Salem, South Carolina									
Chemical of Concern	RBSL (mg/l)	MW-9 (mg/l)	MW-10 (mg/l)	MW-11 (mg/l)	MW-12 (mg/l)	DMW-1 (mg/l)	CK-1 (mg/l)	CK-2 (mg/l)	WW-1 (mg/l)
Lead	0.015	0.617	0.9770	0.324	0.093	<0.0030	<0.0030	<0.0030	<0.0030
Ferrous Iron	NA	5.370	8.53	6.880	4.430	0.136	0.247	0.716	<0.100
Nitrate	NA	0.24	<0.100	0.18	0.15	<0.10	0.26	0.73	0.310
Sulfate	NA	1.83	<1.00	1.58	2.66	1.35	1.28	2.35	<1.00

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable

U.S. STANDARD SIEVE SIZE



CLAY	SILT	SAND			GRAVEL		COBBLES
		Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.	Schnabel Schnabel Engineering Associates, Inc.	
No. 1	DMU 1		SAND = 63% SILT = 27% CLAY = 10%		GRADATION CURVES	
No. 2					Hwy 11 Grocery	
No. 3					CONTRACT NO. 989073.97	DATE 7-24-01

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97962
 Sample ID: SBI
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 8:55
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0500	0.0010	50	7/15/01	18:41	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0500	0.0010	50	7/15/01	18:41	McCutcheon	8260B	1103
Naphthalene	12.50	mg/kg	0.5000	0.0010	500	7/15/01	18:41	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0500	0.0010	50	7/15/01	18:41	McCutcheon	8260B	1103
Xylenes, Total	0.3000	mg/kg	0.0500	0.0010	50	7/15/01	18:41	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	97.	%			1	7/18/01	9:02	B. Powell	CLP	1192

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	4.9 g	5.0 ml	7/10/01	8:55	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97962
Sample ID: SBI
Project: 300388
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
VOA Surr-Toluene d8	105.	75. - 141.
VOA Surr, 4-BFB	102.	69. - 131.
VOA Surr, DBFM	88.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97963
 Sample ID: SB2
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 9:15
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	19:12	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	19:12	McCutcheon	8260B	1103
Naphthalene	0.0060	mg/kg	0.0010	0.0010	1	7/15/01	19:12	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/15/01	19:12	McCutcheon	8260B	1103
Xylenes, Total	0.0028	mg/kg	0.0010	0.0010	1	7/15/01	19:12	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	77.	%			1	7/18/01	9:02	B. Powell	CLP	1192

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.0 g	5.0 ml	7/10/01	9:15	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	128.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97963
Sample ID: SB2
Project: 300388
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
VOA Surr-Toluene d8	102.	75. - 141.
VOA Surr, 4-BFB	107.	69. - 131.
VOA Surr, DBFM	81.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: Levie C. Ducey

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97964
 Sample ID: SB3
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 10:05
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	19:44	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	19:44	McCutcheon	8260B	1103
Naphthalene	0.0094	mg/kg	0.0010	0.0010	1	7/15/01	19:44	McCutcheon	8260B	1103
Toluene	0.0038	mg/kg	0.0010	0.0010	1	7/15/01	19:44	McCutcheon	8260B	1103
Xylenes, Total	0.0052	mg/kg	0.0010	0.0010	1	7/15/01	19:44	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	77.	%			1	7/18/01	9:02	B. Powell	CLP	1192

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.1 g	5.0 ml	7/10/01	10:05	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	112.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97964
Sample ID: SB3
Project: 300388
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
VOA Surr-Toluene d8	96.	75. - 141.
VOA Surr, 4-BFB	112.	69. - 131.
VOA Surr, DBFM	96.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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permission of the laboratory.

Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97965
 Sample ID: SB4
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 11:20
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/20/01	7:02	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/20/01	7:02	McCutcheon	8260B	1103
Naphthalene	ND	mg/kg	0.0010	0.0010	1	7/20/01	7:02	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/20/01	7:02	McCutcheon	8260B	1103
Xylenes, Total	0.0049	mg/kg	0.0010	0.0010	1	7/20/01	7:02	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	95.	%			1	7/18/01	9:02	B. Powell	CLP	1192

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.1 g	5.0 ml	7/10/01	11:20	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97965
Sample ID: SB4
Project: 300388
Page 2

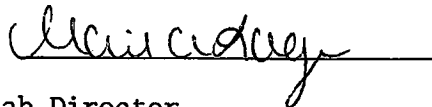
Surrogate	% Recovery	Target Range
-----	-----	-----
VOA Surr-Toluene d8	106.	75. - 141.
VOA Surr, 4-BFB	94.	69. - 131.
VOA Surr, DBFM	80.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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permission of the laboratory.

Report Approved By:



Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97966
 Sample ID: SB5
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 11:55
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	20:47	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	20:47	McCutcheon	8260B	1103
Naphthalene	ND	mg/kg	0.0010	0.0010	1	7/15/01	20:47	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/15/01	20:47	McCutcheon	8260B	1103
Xylenes, Total	ND	mg/kg	0.0010	0.0010	1	7/15/01	20:47	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	78.	%			1	7/18/01	9:02	B. Powell	CLP	1192

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.2 g	5.0 ml	7/10/01	11:55	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	120.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97966
Sample ID: SB5
Project: 300388
Page 2

Surrogate -----	% Recovery -----	Target Range -----
VOA Surr-Toluene d8	108.	75. - 141.
VOA Surr, 4-BFB	96.	69. - 131.
VOA Surr, DBFM	89.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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permission of the laboratory.

Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/20/01

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Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

VOA PARAMETERS								
Benzene	mg/kg	< 0.0010	0.0570	0.0500	114	45. - 135.	1103	blank
Toluene	mg/kg	< 0.0010	0.0620	0.0500	124	32. - 139.	1103	blank

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

VOA PARAMETERS						
Benzene	mg/kg	0.0570	0.0530	7.27	37.	1103
Toluene	mg/kg	0.0620	0.0520	17.54	40.	1103

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

VOA PARAMETERS						
Benzene	mg/kg	0.1000	0.1010	101	77 - 124	1103
Ethylbenzene	mg/kg	0.1000	0.1050	105	77 - 118	1103
Naphthalene	mg/kg	0.1000	0.0970	97	57 - 144	1103
Toluene	mg/kg	0.1000	0.1120	112	76 - 120	1103
Xylenes, Total	mg/kg	0.2000	0.2100	105	76 - 119	1103

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

VOA PARAMETERS					

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzene	< 0.0010	mg/kg	1103	7/16/01	15:14
Ethylbenzene	< 0.0010	mg/kg	1103	7/16/01	15:14
Naphthalene	< 0.0010	mg/kg	1103	7/16/01	15:14
Toluene	< 0.0010	mg/kg	1103	7/16/01	15:14
Xylenes, Total	< 0.0010	mg/kg	1103	7/16/01	15:14
VOA Surr 1,2-DCA-d4	104.	% Rec	1103	7/16/01	15:14
VOA Surr-Toluene d8	89.	% Rec	1103	7/16/01	15:14
VOA Surr, 4-BFB	90.	% Rec	1103	7/16/01	15:14

- Value outside Laboratory historical QC limits.

End of Report for Project 245425

TESTAMERICA, INC. - NASHVILLE

COOLER RECEIPT FORM

Client: 7A - Columbia

BC# 245425

Cooler Received On: 7/14/01 And Opened On: 7/14/01 By: Paul Buckingham

Paul Buckingham
(Signature)

1. Temperature of Cooler when opened 1.0 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO
 - a. If yes, how many, what kind and where: 1 front
3. Were custody seals on containers and intact?..... NO...YES
4. Were the seals intact, signed, and dated correctly?..... YES...NO
5. Were custody papers inside cooler?..... YES...NO
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO
7. Did you sign the custody papers in the appropriate place?..... YES...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?..... YES...NO
10. Did all bottles arrive in good condition (unbroken)?..... YES...NO
11. Were all bottle labels complete (#, date, signed, pres, etc)?..... YES...NO
12. Did all bottle labels and tags agree with custody papers?..... YES...NO
13. Were correct bottles used for the analysis requested?..... YES...NO
14. a. Were VOA vials received?..... YES...NO
 - b. Was there any observable head space present in any VOA vial?..... ~~NO~~...YES NA
15. Was sufficient amount of sample sent in each bottle?..... YES...NO
16. Were correct preservatives used?..... YES...NO
17. Was residual chlorine present?..... ~~NO~~...YES NA
18. Corrective action taken, if necessary:

See attached for resolution

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97976
 Sample ID: MW3
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/ 9/01
 Time Collected: 16:00
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report	Quan	Dil	Analysis	Analysis	Analyst	Method	Batch
			Limit	Limit	Factor	Date	Time			
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	2:18	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	2:18	McCutcheon	8260B	1103
Naphthalene	0.0070	mg/kg	0.0010	0.0010	1	7/15/01	2:18	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/15/01	2:18	McCutcheon	8260B	1103
Xylenes, Total	0.0029	mg/kg	0.0010	0.0010	1	7/15/01	2:18	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	7/18/01	9:11	B. Powell	CLP	1194
GENERAL CHEMISTRY PARAMETERS										
TOC	ND	mg/kg	1000	1000	1	7/18/01	16:45	N. Wilk	9060M	3382

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	4.9 g	5.0 ml	7/ 9/01	16:00	McCutcheon	5035

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97976
Sample ID: MW3
Project: 300388
Page 2

Surrogate -----	% Recovery -----	Target Range -----
VOA Surr 1,2-DCA-d4	120.	50. - 140.
VOA Surr-Toluene d8	109.	75. - 141.
VOA Surr, 4-BFB	94.	69. - 131.
VOA Surr, DBFM	89.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
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permission of the laboratory.

Report Approved By: Cherice Day

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97977
 Sample ID: MW4
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 10:30
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	21:50	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	21:50	McCutcheon	8260B	1103
Naphthalene	0.0050	mg/kg	0.0010	0.0010	1	7/15/01	21:50	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/15/01	21:50	McCutcheon	8260B	1103
Xylenes, Total	0.0028	mg/kg	0.0010	0.0010	1	7/15/01	21:50	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	7/18/01	9:11	B. Powell	CLP	1194

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	4.3 g	5.0 ml	7/10/01	10:30	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	122.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97977
Sample ID: MW4
Project: 300388
Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
VOA Surr-Toluene d8	108.	75. - 141.
VOA Surr, 4-BFB	100.	69. - 131.
VOA Surr, DBFM	94.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97978
 Sample ID: MW5
 Sample Type: Soil
 Site ID:

Date Collected: 7/10/01
 Time Collected: 13:55
 Date Received: 7/14/01
 Time Received: 9:00

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	22:21	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	22:21	McCutcheon	8260B	1103
Naphthalene	ND	mg/kg	0.0010	0.0010	1	7/15/01	22:21	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/15/01	22:21	McCutcheon	8260B	1103
Xylenes, Total	ND	mg/kg	0.0010	0.0010	1	7/15/01	22:21	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	7/18/01	9:11	B. Powell	CLP	1194

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.7 g	5.0 ml	7/10/01	13:55	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	122.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97978
Sample ID: MW5
Project: 300388
Page 2

Surrogate -----	% Recovery -----	Target Range -----
VOA Surr-Toluene d8	107.	75. - 141.
VOA Surr, 4-BFB	95.	69. - 131.
VOA Surr, DBFM	100.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97979
 Sample ID: MW6
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 15:30
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	0.0020	mg/kg	0.0010	0.0010	1	7/15/01	22:53	McCutcheon	8260B	1103
Ethylbenzene	0.0058	mg/kg	0.0010	0.0010	1	7/15/01	22:53	McCutcheon	8260B	1103
Naphthalene	0.0340	mg/kg	0.0010	0.0010	1	7/15/01	22:53	McCutcheon	8260B	1103
Toluene	0.0168	mg/kg	0.0010	0.0010	1	7/15/01	22:53	McCutcheon	8260B	1103
Xylenes, Total	0.0339	mg/kg	0.0010	0.0010	1	7/15/01	22:53	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	7/18/01	9:11	B. Powell	CLP	1194

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.2 g	5.0 ml	7/10/01	15:30	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	122.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97979
Sample ID: MW6
Project: 300388
Page 2

Surrogate -----	% Recovery -----	Target Range -----
VOA Surr-Toluene d8	109.	75. - 141.
VOA Surr, 4-BFB	99.	69. - 131.
VOA Surr, DBFM	112.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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Report Approved By: *Gail A. Lage*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97980
 Sample ID: MW7
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/10/01
 Time Collected: 16:25
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	23:24	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/15/01	23:24	McCutcheon	8260B	1103
Naphthalene	ND	mg/kg	0.0010	0.0010	1	7/15/01	23:24	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/15/01	23:24	McCutcheon	8260B	1103
Xylenes, Total	ND	mg/kg	0.0010	0.0010	1	7/15/01	23:24	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	82.	%			1	7/18/01	9:11	B. Powell	CLP	1194

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.8 g	5.0 ml	7/10/01	16:25	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	130.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97980
Sample ID: MW7
Project: 300388
Page 2

Surrogate -----	% Recovery -----	Target Range -----
VOA Surr-Toluene d8	100.	75. - 141.
VOA Surr, 4-BFB	104.	69. - 131.
VOA Surr, DBFM	84.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

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Report Approved By: *Michael Dunn*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97981
 Sample ID: MW8
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/12/01
 Time Collected: 9:00
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report	Quan	Dil	Analysis		Analyst	Method	Batch
			Limit	Limit	Factor	Date	Time			
VOLATILE ORGANICS										
Benzene	ND	mg/kg	0.0010	0.0010	1	7/20/01	9:40	McCutcheon	8260B	1103
Ethylbenzene	ND	mg/kg	0.0010	0.0010	1	7/20/01	9:40	McCutcheon	8260B	1103
Naphthalene	ND	mg/kg	0.0010	0.0010	1	7/20/01	9:40	McCutcheon	8260B	1103
Toluene	ND	mg/kg	0.0010	0.0010	1	7/20/01	9:40	McCutcheon	8260B	1103
Xylenes, Total	ND	mg/kg	0.0010	0.0010	1	7/20/01	9:40	McCutcheon	8260B	1103
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	86.	%			1	7/18/01	9:11	B. Powell	CLP	1194

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
Volatile Organics	5.6 g	5.0 ml	7/12/01	9:00	McCutcheon	5035

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	50. - 140.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97981
Sample ID: MW8
Project: 300388
Page 2

Surrogate	% Recovery	Target Range
VOA Surr-Toluene d8	102.	75. - 141.
VOA Surr, 4-BFB	90.	69. - 131.
VOA Surr, DBFM	97.	76. - 136.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A97982
 Sample ID: DMW1
 Sample Type: Soil
 Site ID:

Project: 300388
 Project Name: HWY 11 GROCERY
 Sampler: MARC L. MCFARLAND

Date Collected: 7/ 9/01
 Time Collected: 17:00
 Date Received: 7/14/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
TPH (Diesel Range)	57.6	mg/kg	10.0	4.00	1	7/19/01	11:47	K.Phelps	8015B/3550	3519

ND - Not detected at the report limit.

 Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
EPH/DRO	25.0 gm	1.0 ml	7/16/01		D.Yeager	3550

Surrogate	% Recovery	Target Range
surr-o-Terphenyl	70.	50. - 150.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A97982
Sample ID: DMW1
Project: 300388
Page 2

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: *Gail A. Lage*

Report Date: 7/20/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

UST ANALYSIS								
TPH (Diesel Range)	mg/kg	57.6	92.9	40.0	88	28. - 124.	3519	01-A97982

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

VOA PARAMETERS								
Benzene	mg/kg	< 0.0010	0.0570	0.0500	114	45. - 135.	1103	blank
Toluene	mg/kg	< 0.0010	0.0620	0.0500	124	32. - 139.	1103	blank

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

UST PARAMETERS						
TPH (Diesel Range)	mg/kg	92.9	90.0	3.17	44.	3519

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

VOA PARAMETERS						
Benzene	mg/kg	0.0570	0.0530	7.27	37.	1103
Toluene	mg/kg	0.0620	0.0520	17.54	40.	1103

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

UST PARAMETERS						
TPH (Diesel Range)	mg/kg	40.0	32.4	81	53 - 119	3519

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

VOA PARAMETERS						
Benzene	mg/kg	0.1000	0.1010	101	77 - 124	1103
Ethylbenzene	mg/kg	0.1000	0.1050	105	77 - 118	1103
Naphthalene	mg/kg	0.1000	0.0970	97	57 - 144	1103
Toluene	mg/kg	0.1000	0.1120	112	76 - 120	1103
Xylenes, Total	mg/kg	0.2000	0.2100	105	76 - 119	1103

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

MISC PARAMETERS						
TOC	mg/kg	12400	15200	123 #	80 - 120	3382
Duplicates						

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

TOC	mg/kg	< 1000	< 1000	N/A	25.	3382	01-A98732

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
-----	-----	-----	-----	-----	-----

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----

****UST PARAMETERS****

TPH (Diesel Range)	< 10.0	mg/kg	3519	7/18/01	20:32
--------------------	--------	-------	------	---------	-------

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----

****VOA PARAMETERS****

Benzene	< 0.0010	mg/kg	1103	7/16/01	15:14
Ethylbenzene	< 0.0010	mg/kg	1103	7/16/01	15:14
Naphthalene	< 0.0010	mg/kg	1103	7/16/01	15:14
Toluene	< 0.0010	mg/kg	1103	7/16/01	15:14
Xylenes, Total	< 0.0010	mg/kg	1103	7/16/01	15:14
VOA Surr 1,2-DCA-d4	104.	% Rec	1103	7/16/01	15:14
VOA Surr-Toluene d8	89.	% Rec	1103	7/16/01	15:14
VOA Surr, 4-BFB	90.	% Rec	1103	7/16/01	15:14

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----

****MISC PARAMETERS****

TOC	< 1000	mg/kg	3382	7/18/01	16:45
-----	--------	-------	------	---------	-------

PROJECT QUALITY CONTROL DATA
Project Number: 300388

- Value outside Laboratory historical QC limits.

End of Report for Project 245430

TESTAMERICA, INC. - NASHVILLE

COOLER RECEIPT FORM

Client: 7A - Columbia BC# 245430

Cooler Received On: 7/14/01 And Opened On: 7/14/01 By: Paul Buckingham

Paul Buckingham
(Signature)

1. Temperature of Cooler when opened 1.0 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO
 - a. If yes, how many, what kind and where: 1 front
3. Were custody seals on containers and intact?..... NO...YES
4. Were the seals intact, signed, and dated correctly?..... YES...NO
5. Were custody papers inside cooler?..... YES...NO
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO
7. Did you sign the custody papers in the appropriate place?..... YES...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?..... YES...NO
10. Did all bottles arrive in good condition (unbroken)?..... YES...NO
11. Were all bottle labels complete (#, date, signed, pres, etc)?..... YES...NO
12. Did all bottle labels and tags agree with custody papers?..... YES...NO
13. Were correct bottles used for the analysis requested?..... YES...NO
14. a. Were VOA vials received?..... YES...NO
 - b. Was there any observable head space present in any VOA vial?.....~~NO~~...YES NA
15. Was sufficient amount of sample sent in each bottle?..... YES...NO
16. Were correct preservatives used?..... YES...NO
17. Was residual chlorine present?.....~~NO~~...YES NA
18. Corrective action taken, if necessary:

See attached for resolution

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98273
 Sample ID: DMW1
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: JEFF WEYAND

Date Collected: 7/16/01
 Time Collected: 12:35
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	69.0	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/21/01	0:52	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	2060	ug/l	100.	2.0	50	7/21/01	10:54	N. Hurt	8260B	5582
Toluene	4320	ug/l	100.	2.0	50	7/21/01	10:54	N. Hurt	8260B	5582
Ethylbenzene	335.	ug/l	100.	2.0	50	7/21/01	10:54	N. Hurt	8260B	5582
Xylenes, Total	2180	ug/l	100.	2.0	50	7/21/01	10:54	N. Hurt	8260B	5582
Methyl-t-butyl ether	8750	ug/l	100.	2.0	50	7/21/01	10:54	N. Hurt	8260B	5582
Naphthalene	80.6	ug/l	5.0	5.0	1	7/18/01	4:02	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	6:00	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98273
 Sample ID: DMW1
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l.	26.0	26.0	1	7/18/01	16:23	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	0.136	mg/l	0.100	0.100	1	7/17/01	16:48	S. Duncan	3500D	2032
Lead	ND	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.10	0.10	1	7/17/01	15:45	G. Baun	9056	2029
Sulfate	1.35	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	990. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	99.	68. - 143.
VOA Surr, Toluene d8	102.	78. - 127.
VOA Surr, 4-BFB	96.	73. - 127.
VOA Surr, DBFM	99.	76. - 135.
BNA Surr-Nitrobenzene-d5	104.	20. - 118.
BNA Surr-2-Fluorobiphenyl	98.	18. - 116.
BNA Surr-Terphenyl d14	36.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98274
 Sample ID: MW3
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: JEFF WEYAND

Date Collected: 7/16/01
 Time Collected: 12:35
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/21/01	1:31	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	7/19/01	0:08	N. Hurt	8260B	5579
Toluene	4.1	ug/l	2.0	2.0	1	7/19/01	0:08	N. Hurt	8260B	5579
Ethylbenzene	ND	ug/l	2.0	2.0	1	7/19/01	0:08	N. Hurt	8260B	5579
Xylenes, Total	8.2	ug/l	2.0	2.0	1	7/19/01	0:08	N. Hurt	8260B	5579
Methyl-t-butyl ether	ND	ug/l	2.0	2.0	1	7/19/01	0:08	N. Hurt	8260B	5579
Naphthalene	ND	ug/l	5.0	5.0	1	7/19/01	0:08	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	6:28	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98274
 Sample ID: MW3
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l.	26.0	26.0	1	7/18/01	16:26	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	5.09	mg/l	0.500	0.100	5	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.5850	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.51	mg/l	0.10	0.10	1	7/17/01	15:45	G. Baun	9056	2029
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's.	990. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	96.	68. - 143.
VOA Surr, Toluene d8	94.	78. - 127.
VOA Surr, 4-BFB	89.	73. - 127.
VOA Surr, DBFM	94.	76. - 135.
BNA Surr-Nitrobenzene-d5	101.	20. - 118.
BNA Surr-2-Fluorobiphenyl	101.	18. - 116.
BNA Surr-Terphenyl d14	73.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98275
 Sample ID: MW4
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: JEFF WEYAND

Date Collected: 7/16/01
 Time Collected: 11:55
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	175.	ug/l	25.0	5.00	5	7/21/01	15:00	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/21/01	2:10	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	1500	ug/l	200.	2.0	100	7/19/01	2:35	N. Hurt	8260B	5579
Toluene	7460	ug/l	200.	2.0	100	7/19/01	2:35	N. Hurt	8260B	5579
Ethylbenzene	1400	ug/l	200.	2.0	100	7/19/01	2:35	N. Hurt	8260B	5579
Xylenes, Total	7740	ug/l	200.	2.0	100	7/19/01	2:35	N. Hurt	8260B	5579
Methyl-t-butyl ether	620.	ug/l	200.	2.0	100	7/19/01	2:35	N. Hurt	8260B	5579
Naphthalene	ND	ug/l	500.	5.0	100	7/19/01	2:35	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	6:56	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98275
 Sample ID: MW4
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	16:30	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	0.690	mg/l	0.100	0.100	1	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.4320	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.28	mg/l	0.10	0.10	1	7/17/01	15:45	G. Baun	9056	2029
Sulfate	2.06	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	980. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	103.	68. - 143.
VOA Surr, Toluene d8	94.	78. - 127.
VOA Surr, 4-BFB	94.	73. - 127.
VOA Surr, DBFM	104.	76. - 135.
BNA Surr-Nitrobenzene-d5	89.	20. - 118.
BNA Surr-2-Fluorobiphenyl	86.	18. - 116.
BNA Surr-Terphenyl d14	29.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98275
Sample ID: MW4
Project: 300388
Page 3

- Recovery outside Laboratory historical limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

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Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/23/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

Test America

INCORPORATED

ANALYTICAL REPORT

SEI 8990
BOB BOLTON
3021 MCNAUGHTON DR. STE 9
COLUMBIA, SC 29223

Lab Number: 01-A98276
Sample ID: MW6
Sample Type: Water
Site ID:

Project: 300388
Project Name: HIGHWAY 11 GROCERY
Sampler: JEFF WEYAND

Date Collected: 7/16/01
Time Collected: 13:10
Date Received: 7/17/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	560.	ug/l	50.0	5.00	10	7/21/01	15:38	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/21/01	2:49	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	5700	ug/l	200.	2.0	100	7/19/01	7:30	N. Hurt	8260B	5579
Toluene	25800	ug/l	2000	2.0	1000	7/20/01	2:50	N. Hurt	8260B	5582
Ethylbenzene	4760	ug/l	200.	2.0	100	7/19/01	7:30	N. Hurt	8260B	5579
Xylenes, Total	22700	ug/l	200.	2.0	100	7/19/01	7:30	N. Hurt	8260B	5579
Methyl-t-butyl ether	11100	ug/l	200.	2.0	100	7/19/01	7:30	N. Hurt	8260B	5579
Naphthalene	1060	ug/l	500.	5.0	100	7/19/01	7:30	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	7:24	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98276
 Sample ID: MW6
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	16:33	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	24.4	mg/l	1.00	0.100	10	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.1560	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.10	0.10	1	7/17/01	15:45	G. Baun	9056	2029
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	940. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	98.	68. - 143.
VOA Surr, Toluene d8	103.	78. - 127.
VOA Surr, 4-BFB	98.	73. - 127.
VOA Surr, DBFM	99.	76. - 135.
BNA Surr-Nitrobenzene-d5	133. #	20. - 118.
BNA Surr-2-Fluorobiphenyl	102.	18. - 116.
BNA Surr-Terphenyl d14	45.	10. - 119.

Sample report continued . . .

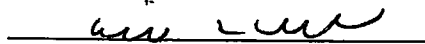
ANALYTICAL REPORT

Laboratory Number: 01-A98276
Sample ID: MW6
Project: 300388
Page 3

- Recovery outside Laboratory historical limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

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Report Approved By:  Report Date: 7/23/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

Test America

INCORPORATED

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98277
 Sample ID: TRIP BLANK
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: JEFF WEYAND

Date Collected:
 Time Collected:
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	7/19/01	6:54	N. Hurt	8260B	5579
Toluene	ND	ug/l	2.0	2.0	1	7/19/01	6:54	N. Hurt	8260B	5579
Ethylbenzene	ND	ug/l	2.0	2.0	1	7/19/01	6:54	N. Hurt	8260B	5579
Xylenes, Total	ND	ug/l	2.0	2.0	1	7/19/01	6:54	N. Hurt	8260B	5579

ND - Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	103.	68. - 143.
VOA Surr, Toluene d8	96.	78. - 127.
VOA Surr, 4-BFB	92.	73. - 127.
VOA Surr, DBFM	99.	76. - 135.

- Recovery outside Laboratory historical limits.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98277
Sample ID: TRIP BLANK
Project: 300388
Page 2

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Report Approved By: *Gail A. Lage*

Report Date: 7/23/01

Paul E. Lane, Jr., Lab Director
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Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Acenaphthene	mg/l	< 0.00100	0.0420	0.0500	84	30. - 109.	5221	BLANK
Pyrene	mg/l	< 0.00100	0.0480	0.0500	96	26. - 102.	5221	BLANK

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.00060	0.04540	0.05000	91	68. - 136.	5579	blank
Toluene	mg/l	< 0.00050	0.05210	0.05000	104	68. - 135.	5579	blank
VOA Surr, 1,2-DCA, d4	% Rec				96	68. - 143.	5579	
VOA Surr, Toluene d8	% Rec				95	78. - 127.	5579	
VOA Surr, 4-BFB	% Rec				96	73. - 127.	5579	
VOA Surr, DBFM	% Rec				92	76. - 135.	5579	
BNA Surr-Nitrobenzene-d5	% Rec				84	20. - 118.	5221	
BNA Surr-2-Fluorobiphenyl	% Rec				82	18. - 116.	5221	
BNA Surr-Terphenyl d14	% Rec				93	10. - 119.	5221	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Lead	mg/l	< 0.0030	0.0510	0.0500	102	80 - 120	2539	Duplicate

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Nitrate-N as N	mg/l	< 0.10	2.39	2.50	96	80 - 120	2029	01-A98297
Sulfate	mg/l	1.47	16.0	15.0	97	80 - 120	2029	01-A98297
Ethylene Dibromide	mg/l	< 0.00002	0.00031	0.00029	107	60 - 140	2126	blank
Methane	mg/L	0.113	1.40	1.33	97	60 - 140	2114	01-A98297
Methane	mg/L	0.113	1.40	1.33	97	60 - 140	2114	01-A98297

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Acenaphthene	mg/l	0.0420	0.0340	21.05	39.	5221
Pyrene	mg/l	0.0480	0.0390	20.69	37.	5221

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.04540	0.04260	6.36	20.	5579
Toluene	mg/l	0.05210	0.04340	18.22	22.	5579
VOA Surr, 1,2-DCA, d4	% Rec		101.			5579
VOA Surr, Toluene d8	% Rec		96.			5579
VOA Surr, 4-BFB	% Rec		96.			5579
VOA Surr, DBFM	% Rec		93.			5579

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

BNA Surr-Nitrobenzene-d5	% Rec	71.	5221
BNA Surr-2-Fluorobiphenyl	% Rec	69.	5221
BNA Surr-Terphenyl d14	% Rec	78.	5221

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
METALS						
Lead	mg/l	0.0510	0.0490	4.00	20	2539

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Ethylene Dibromide	mg/l	0.00031	0.00030	3.28	20	2126
Methane	mg/L	1.40	1.40	0.00	20	2114

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	2.39	2.39	0.00	20	2029
Sulfate	mg/l	16.0	16.0	0.00	20	2029

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
UST PARAMETERS						
Naphthalene	mg/l	0.0500	0.0390	78	34 - 112	5221
Acenaphthene	mg/l	0.0500	0.0390	78	35 - 116	5221
Anthracene	mg/l	0.0500	0.0400	80	42 - 112	5221

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Fluoranthene	mg/l	0.0500	0.0400	80	41 - 119	5221
Fluorene	mg/l	0.0500	0.0400	80	38 - 117	5221
Pyrene	mg/l	0.0500	0.0450	90	36 - 121	5221
Benzo(a)anthracene	mg/l	0.0500	0.0410	82	38 - 121	5221
Benzo(a)pyrene	mg/l	0.0500	0.0410	82	38 - 126	5221
Benzo(b)fluoranthene	mg/l	0.0500	0.0400	80	30 - 122	5221
Benzo(k)fluoranthene	mg/l	0.0500	0.0420	84	37 - 133	5221
Chrysene	mg/l	0.0500	0.0430	86	38 - 122	5221
Dibenzo(a,h)anthracene	mg/l	0.0500	0.0320	64	20 - 140	5221
Indeno(1,2,3-cd)pyrene	mg/l	0.0500	0.0310	62	19 - 136	5221
Acenaphthylene	mg/l	0.0500	0.0390	78	38 - 115	5221
Benzo(g,h,i)perylene	mg/l	0.0500	0.0350	70	14 - 150	5221
Phenanthrene	mg/l	0.0500	0.0390	78	40 - 116	5221

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.05000	0.04520	90	74 - 123	5579
Benzene	mg/l	0.05000	0.04520	90	74 - 123	5582
Ethylbenzene	mg/l	0.05000	0.04930	99	80 - 121	5579
Ethylbenzene	mg/l	0.05000	0.04930	99	80 - 121	5582
Naphthalene	mg/l	0.0500	0.0455	91	48 - 164	5579
Toluene	mg/l	0.05000	0.04430	89	74 - 125	5579
Toluene	mg/l	0.05000	0.04430	89	74 - 125	5582
Xylenes, Total	mg/l	0.1500	0.1411	94	80 - 122	5579
Xylenes, Total	mg/l	0.1500	0.1411	94	80 - 122	5582
Methyl-t-butyl ether	mg/l	0.0500	0.0472	94	68 - 127	5579
Methyl-t-butyl ether	mg/l	0.0500	0.0472	94	68 - 127	5582
Methane	mg/L	1.33	1.20	90	82 - 121	2114
VOA Surr, 1,2-DCA, d4	% Rec			82	82 - 121	5579
VOA Surr, 1,2-DCA, d4	% Rec			82	82 - 121	5582

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, Toluene d8	% Rec			88	82 - 121	5579
VOA Surr, Toluene d8	% Rec			88	82 - 121	5582
VOA Surr, 4-BFB	% Rec			94	82 - 121	5579
VOA Surr, 4-BFB	% Rec			94	82 - 121	5582
VOA Surr, DBFM	% Rec			91	82 - 121	5579
VOA Surr, DBFM	% Rec			91	82 - 121	5582
BNA Surr-Nitrobenzene-d5	% Rec			80	82 - 121	5221
BNA Surr-2-Fluorobiphenyl	% Rec			77	82 - 121	5221
BNA Surr-Terphenyl d14	% Rec			87	82 - 121	5221

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Lead	mg/l	0.0500	0.0460	92	85 - 115	2539

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.20	90	82 - 121	2114

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	2.50	2.45	98	90 - 110	2029
Sulfate	mg/l	15.0	14.5	97	90 - 110	2029

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	5221	7/20/01	18:19
Acenaphthene	< 0.00100	mg/l	5221	7/20/01	18:19
Anthracene	< 0.00100	mg/l	5221	7/20/01	18:19
Fluoranthene	< 0.00100	mg/l	5221	7/20/01	18:19
Fluorene	< 0.00100	mg/l	5221	7/20/01	18:19
Pyrene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(a)anthracene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(a)pyrene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(b)fluoranthene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(k)fluoranthene	< 0.00100	mg/l	5221	7/20/01	18:19
Chrysene	< 0.00100	mg/l	5221	7/20/01	18:19
Dibenzo(a,h)anthracene	< 0.00200	mg/l	5221	7/20/01	18:19
Indeno(1,2,3-cd)pyrene	< 0.00200	mg/l	5221	7/20/01	18:19
Acenaphthylene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(g,h,i)perylene	< 0.00200	mg/l	5221	7/20/01	18:19
Phenanthrene	< 0.00100	mg/l	5221	7/20/01	18:19

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzene	< 0.00060	mg/l	5579	7/18/01	0:21
Benzene	< 0.00060	mg/l	5582	7/18/01	0:21
Ethylbenzene	< 0.00070	mg/l	5579	7/18/01	0:21
Ethylbenzene	< 0.00070	mg/l	5582	7/18/01	0:21
Naphthalene	< 0.0006	mg/l	5579	7/18/01	0:21
Toluene	< 0.00050	mg/l	5579	7/18/01	0:21
Toluene	< 0.00050	mg/l	5582	7/18/01	0:21
Xylenes, Total	< 0.00080	mg/l	5579	7/18/01	0:21
Xylenes, Total	< 0.00080	mg/l	5582	7/18/01	0:21
Methyl-t-butyl ether	< 0.0003	mg/l	5579	7/18/01	0:21
Methyl-t-butyl ether	< 0.0003	mg/l	5582	7/18/01	0:21
VOA Surr, 1,2-DCA, d4	102.	% Rec	5579	7/18/01	0:21
VOA Surr, 1,2-DCA, d4	102.	% Rec	5582	7/18/01	0:21
VOA Surr, Toluene d8	97.	% Rec	5579	7/18/01	0:21
VOA Surr, Toluene d8	97.	% Rec	5582	7/18/01	0:21
VOA Surr, 4-BFB	97.	% Rec	5579	7/18/01	0:21
VOA Surr, 4-BFB	97.	% Rec	5582	7/18/01	0:21
VOA Surr, DBFM	96.	% Rec	5579	7/18/01	0:21
VOA Surr, DBFM	96.	% Rec	5582	7/18/01	0:21
BNA Surr-Nitrobenzene-d5	84.	% Rec	5221	7/20/01	18:19
BNA Surr-2-Fluorobiphenyl	80.	% Rec	5221	7/20/01	18:19
BNA Surr-Terphenyl d14	95.	% Rec	5221	7/20/01	18:19

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Lead	< 0.0030	mg/l	2539	7/18/01	16:12

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.10	mg/l	2029	7/17/01	15:45
Sulfate	< 1.00	mg/l	2029	7/17/01	15:45

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Ethylene Dibromide	< 0.00002	mg/l	2126	7/18/01	1:21
Methane	< 0.026	mg/L	2114	7/18/01	15:21

- Value outside Laboratory historical QC limits.


End of Report for Project 245508

TestAmerica

INCORPORATED
COOLER RECEIPT FORM

Client: SEI Environmental BC# 245508

Cooler Received On: 7-17-01 And Opened On: 7-17-01 By: CRAIG COTHRON


(Signature)

1. Temperature of Cooler when opened 3.0 DEGREES C
2. Were custody seals on outside of cooler and intact?.....YES NO
- a. If yes, what kind and where: _____
- b. Were the signature and date correct?.....YES NO
3. Were custody seals on containers intact?.....YES NO
4. Were custody papers inside cooler?.....YES NO
5. Were custody papers properly filled out (ink, signed, etc)?.....YES NO
6. Did you sign the custody papers in the appropriate place?.....YES NO
7. What kind of packing material used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES NO
9. Did all bottles arrive in good condition (unbroken)?.....YES NO
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....YES NO
11. Did all bottle labels and tags agree with custody papers?.....YES NO
12. Were correct bottles used for the analysis requested?.....YES NO
13. If present, was any observable voa headspace present?.....YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?....YES NO
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present (if appropriate)?.....YES NO
18. Corrective action taken, if necessary:
 - a. Name of person contacted: SEE ATTACHED FOR RESOLUTION
 - b. Date: _____

Cooler Receipt Form

LF-1

4/6/01

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98242
 Sample ID: MW 7
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: J.WEYAND/J.MONEGHAN

Date Collected: 7/16/01
 Time Collected: 14:30
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/20/01	21:36	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	18.3	ug/l	2.0	2.0	1	7/18/01	0:58	N. Hurt	8260B	5579
Toluene	25.0	ug/l	2.0	2.0	1	7/18/01	0:58	N. Hurt	8260B	5579
Ethylbenzene	2.1	ug/l	2.0	2.0	1	7/18/01	0:58	N. Hurt	8260B	5579
Xylenes, Total	17.5	ug/l	2.0	2.0	1	7/18/01	0:58	N. Hurt	8260B	5579
Methyl-t-butyl ether	ND	ug/l	2.0	2.0	1	7/18/01	0:58	N. Hurt	8260B	5579
Naphthalene	ND	ug/l	5.0	5.0	1	7/18/01	0:58	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	3:41	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98242
 Sample ID: MW 7
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	15:56	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	0.150	mg/l	0.100	0.100	1	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.0410	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.860	mg/l	0.100	0.100	1	7/17/01	20:23	A. Bamarni	353.2	2028
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	1000 ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	99.	68. - 143.
VOA Surr, Toluene d8	93.	78. - 127.
VOA Surr, 4-BFB	98.	73. - 127.
VOA Surr, DBFM	92.	76. - 135.
BNA Surr-Nitrobenzene-d5	100.	20. - 118.
BNA Surr-2-Fluorobiphenyl	98.	18. - 116.
BNA Surr-Terphenyl d14	87.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98242
Sample ID: MW 7
Project: 300388
Page 3

- Recovery outside Laboratory historical limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: *Paul E. Lane, Jr.* Report Date: 7/21/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98243
 Sample ID: WW 1
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: J.WEYAND/J.MONEGHAN

Date Collected: 7/16/01
 Time Collected: 14:20
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/20/01	22:15	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	7/18/01	1:35	N. Hurt	8260B	5579
Toluene	ND	ug/l	2.0	2.0	1	7/18/01	1:35	N. Hurt	8260B	5579
Ethylbenzene	ND	ug/l	2.0	2.0	1	7/18/01	1:35	N. Hurt	8260B	5579
Xylenes, Total	ND	ug/l	2.0	2.0	1	7/18/01	1:35	N. Hurt	8260B	5579
Methyl-t-butyl ether	ND	ug/l	2.0	2.0	1	7/18/01	1:35	N. Hurt	8260B	5579
Naphthalene	ND	ug/l	5.0	5.0	1	7/18/01	1:35	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	4:08	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98243
 Sample ID: WW 1
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	16:03	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	ND	mg/l	0.100	0.100	1	7/17/01	16:48	S. Duncan	3500D	2032
Lead	ND	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.310	mg/l	0.100	0.100	1	7/17/01	20:25	A. Bamarni	353.2	2028
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baum	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	1000 ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	100.	68. - 143.
VOA Surr, Toluene d8	94.	78. - 127.
VOA Surr, 4-BFB	99.	73. - 127.
VOA Surr, DBFM	92.	76. - 135.
BNA Surr-Nitrobenzene-d5	97.	20. - 118.
BNA Surr-2-Fluorobiphenyl	90.	18. - 116.
BNA Surr-Terphenyl d14	92.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98243
Sample ID: WW 1
Project: 300388
Page 3

- Recovery outside Laboratory historical limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: *mei a m*

Report Date: 7/21/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98244
 Sample ID: MW 8
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: J.WEYAND/J.MONEGHAN

Date Collected: 7/16/01
 Time Collected: 14:00
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	390.	ug/l	50.0	5.00	10	7/21/01	14:23	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/20/01	22:55	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	17100	ug/l	200.	2.0	100	7/19/01	0:45	N. Hurt	8260B	5579
Toluene	34400	ug/l	2000	2.0	1000	7/20/01	2:13	N. Hurt	8260B	5582
Ethylbenzene	3060	ug/l	200.	2.0	100	7/19/01	0:45	N. Hurt	8260B	5579
Xylenes, Total	14800	ug/l	200.	2.0	100	7/19/01	0:45	N. Hurt	8260B	5579
Methyl-t-butyl ether	47000	ug/l	2000	2.0	1000	7/20/01	2:13	N. Hurt	8260B	5582
Naphthalene	500.	ug/l	500.	5.0	100	7/19/01	0:45	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	4:36	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98244
 Sample ID: MW 8
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	16:06	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	10.2	mg/l	0.500	0.100	5	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.0350	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.190	mg/l	0.100	0.100	1	7/17/01	20:25	A. Bamarni	353.2	2028
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	960. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	98.	68. - 143.
VOA Surr, Toluene d8	103.	78. - 127.
VOA Surr, 4-BFB	101.	73. - 127.
VOA Surr, DBFM	97.	76. - 135.
BNA Surr-Nitrobenzene-d5	126. #	20. - 118.
BNA Surr-2-Fluorobiphenyl	90.	18. - 116.
BNA Surr-Terphenyl d14	38.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98244
Sample ID: MW 8
Project: 300388
Page 3

- Recovery outside Laboratory historical limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: *mi* & *me*

Report Date: 7/21/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98245
 Sample ID: MW 10
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: J.WEYAND/J.MONEGHAN

Date Collected: 7/16/01
 Time Collected: 13:50
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	35.0	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/20/01	23:34	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	1970	ug/l	200.	2.0	100	7/19/01	1:22	N. Hurt	8260B	5582
Toluene	5500	ug/l	200.	2.0	100	7/19/01	1:22	N. Hurt	8260B	5582
Ethylbenzene	350.	ug/l	200.	2.0	100	7/19/01	1:22	N. Hurt	8260B	5582
Xylenes, Total	3150	ug/l	200.	2.0	100	7/19/01	1:22	N. Hurt	8260B	5582
Methyl-t-butyl ether	3360	ug/l	200.	2.0	100	7/19/01	1:22	N. Hurt	8260B	5582
Naphthalene	109.	ug/l	5.0	5.0	1	7/18/01	2:48	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	5:04	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98245
 Sample ID: MW 10
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	16:10	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	8.53	mg/l	0.500	0.100	5	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.9770	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	ND	mg/l	0.100	0.100	1	7/17/01	20:27	A. Bamarni	353.2	2028
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	980. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	94.	68. - 143.
VOA Surr, Toluene d8	93.	78. - 127.
VOA Surr, 4-BFB	95.	73. - 127.
VOA Surr, DBFM	95.	76. - 135.
BNA Surr-Nitrobenzene-d5	84.	20. - 118.
BNA Surr-2-Fluorobiphenyl	80.	18. - 116.
BNA Surr-Terphenyl d14	43.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98246
 Sample ID: MW 5
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: J.WEYAND/J.MONEGHAN

Date Collected: 7/16/01
 Time Collected: 13:15
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Acenaphthene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Anthracene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Fluorene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Pyrene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Chrysene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Acenaphthylene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
Phenanthrene	ND	ug/l	5.00	5.00	1	7/21/01	0:13	B.Davis	8270C	5221
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	7/18/01	3:25	N. Hurt	8260B	5579
Toluene	ND	ug/l	2.0	2.0	1	7/18/01	3:25	N. Hurt	8260B	5579
Ethylbenzene	ND	ug/l	2.0	2.0	1	7/18/01	3:25	N. Hurt	8260B	5579
Xylenes, Total	ND	ug/l	2.0	2.0	1	7/18/01	3:25	N. Hurt	8260B	5579
Methyl-t-butyl ether	ND	ug/l	2.0	2.0	1	7/18/01	3:25	N. Hurt	8260B	5579
Naphthalene	ND	ug/l	5.0	5.0	1	7/18/01	3:25	N. Hurt	8260B	5579
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/18/01	5:32	Henderson	8011	2126

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98246
 Sample ID: MW 5
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	7/18/01	16:20	K. Stewart	RSK175M	2114
METALS										
Ferrous Iron	0.517	mg/l	0.100	0.100	1	7/17/01	16:48	S. Duncan	3500D	2032
Lead	0.6180	mg/l	0.0030	0.1000	1	7/18/01	16:12	G. McCord	200.7	2539
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.370	mg/l	0.100	0.100	1	7/17/01	20:28	A. Bamarni	353.2	2028
Sulfate	ND	mg/l	1.00	1.00	1	7/17/01	15:45	G. Baun	9056	2029

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	7/19/01		D. Harris	3510/625

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	96.	68. - 143.
VOA Surr, Toluene d8	94.	78. - 127.
VOA Surr, 4-BFB	96.	73. - 127.
VOA Surr, DBFM	92.	76. - 135.
BNA Surr-Nitrobenzene-d5	112.	20. - 118.
BNA Surr-2-Fluorobiphenyl	110.	18. - 116.
BNA Surr-Terphenyl d14	81.	10. - 119.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98246
Sample ID: MW 5
Project: 300388
Page 3

- Recovery outside Laboratory historical limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
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Report Approved By: *Paul E. Lane, Jr.*

Report Date: 7/21/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A98247
 Sample ID: TB
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROCERY
 Sampler: J.WEYAND/J.MONEGHAN

Date Collected: 7/16/01
 Time Collected:
 Date Received: 7/17/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	7/19/01	6:17	N. Hurt	8260B	5579
Toluene	ND	ug/l	2.0	2.0	1	7/19/01	6:17	N. Hurt	8260B	5579
Ethylbenzene	ND	ug/l	2.0	2.0	1	7/19/01	6:17	N. Hurt	8260B	5579
Xylenes, Total	ND	ug/l	2.0	2.0	1	7/19/01	6:17	N. Hurt	8260B	5579

ND - Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	103.	68. - 143.
VOA Surr, Toluene d8	99.	78. - 127.
VOA Surr, 4-BFB	93.	73. - 127.
VOA Surr, DBFM	104.	76. - 135.

- Recovery outside Laboratory historical limits.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A98247
Sample ID: TB
Project: 300388
Page 2

These results relate only to the items tested.
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permission of the laboratory.

Report Approved By: *Paul E. Lane, Jr.* Report Date: 7/21/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Acenaphthene	mg/l	< 0.00100	0.0420	0.0500	84	30. - 109.	5221	BLANK
Pyrene	mg/l	< 0.00100	0.0480	0.0500	96	26. - 102.	5221	BLANK

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.00060	0.04540	0.05000	91	68. - 136.	5579	blank
Toluene	mg/l	< 0.00050	0.05210	0.05000	104	68. - 135.	5579	blank
VOA Surr, 1,2-DCA, d4	% Rec				96	68. - 143.	5579	
VOA Surr, Toluene d8	% Rec				95	78. - 127.	5579	
VOA Surr, 4-BFB	% Rec				96	73. - 127.	5579	
VOA Surr, DBFM	% Rec				92	76. - 135.	5579	
BNA Surr-Nitrobenzene-d5	% Rec				84	20. - 118.	5221	
BNA Surr-2-Fluorobiphenyl	% Rec				82	18. - 116.	5221	
BNA Surr-Terphenyl d14	% Rec				93	10. - 119.	5221	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Lead	mg/l	< 0.0030	0.0510	0.0500	102	80 - 120	2539	Duplicate

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.860	8.96	7.50	108	80 - 120	2028	01-A98242
Nitrate-N as N	mg/l	0.860	8.90	7.50	107	80 - 120	2028	01-A98242
Sulfate	mg/l	1.47	16.0	15.0	97	80 - 120	2029	01-A98297
Ethylene Dibromide	mg/l	< 0.00002	0.00031	0.00029	107	60 - 140	2126	blank
Methane	mg/L	0.113	1.40	1.33	97	60 - 140	2114	01-A98297
Methane	mg/L	0.113	1.40	1.33	97	60 - 140	2114	01-A98297

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Acenaphthene	mg/l	0.0420	0.0340	21.05	39.	5221
Pyrene	mg/l	0.0480	0.0390	20.69	37.	5221

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.04540	0.04260	6.36	20.	5579
Toluene	mg/l	0.05210	0.04340	18.22	22.	5579
VOA Surr, 1,2-DCA, d4	% Rec		101.			5579
VOA Surr, Toluene d8	% Rec		96.			5579
VOA Surr, 4-BFB	% Rec		96.			5579
VOA Surr, DBFM	% Rec		93.			5579

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

BNA Surr-Nitrobenzene-d5	% Rec	71.	5221
BNA Surr-2-Fluorobiphenyl	% Rec	69.	5221
BNA Surr-Terphenyl d14	% Rec	78.	5221

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
METALS						
Lead	mg/l	0.0510	0.0490	4.00	20	2539

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Ethylene Dibromide	mg/l	0.00031	0.00030	3.28	20	2126
Methane	mg/L	1.40	1.40	0.00	20	2114

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Nitrate-N as N	mg/l	8.96	8.90	0.67	20	2028
Sulfate	mg/l	16.0	16.0	0.00	20	2029

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
UST PARAMETERS						
Naphthalene	mg/l	0.0500	0.0390	78	34 - 112	5221
Acenaphthene	mg/l	0.0500	0.0390	78	35 - 116	5221
Anthracene	mg/l	0.0500	0.0400	80	42 - 112	5221

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Fluoranthene	mg/l	0.0500	0.0400	80	41 - 119	5221
Fluorene	mg/l	0.0500	0.0400	80	38 - 117	5221
Pyrene	mg/l	0.0500	0.0450	90	36 - 121	5221
Benzo(a)anthracene	mg/l	0.0500	0.0410	82	38 - 121	5221
Benzo(a)pyrene	mg/l	0.0500	0.0410	82	38 - 126	5221
Benzo(b)fluoranthene	mg/l	0.0500	0.0400	80	30 - 122	5221
Benzo(k)fluoranthene	mg/l	0.0500	0.0420	84	37 - 133	5221
Chrysene	mg/l	0.0500	0.0430	86	38 - 122	5221
Dibenzo(a,h)anthracene	mg/l	0.0500	0.0320	64	20 - 140	5221
Indeno(1,2,3-cd)pyrene	mg/l	0.0500	0.0310	62	19 - 136	5221
Acenaphthylene	mg/l	0.0500	0.0390	78	38 - 115	5221
Benzo(g,h,i)perylene	mg/l	0.0500	0.0350	70	14 - 150	5221
Phenanthrene	mg/l	0.0500	0.0390	78	40 - 116	5221

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.05000	0.04520	90	74 - 123	5579
Benzene	mg/l	0.05000	0.04520	90	74 - 123	5582
Ethylbenzene	mg/l	0.05000	0.04930	99	80 - 121	5579
Ethylbenzene	mg/l	0.05000	0.04930	99	80 - 121	5582
Naphthalene	mg/l	0.0500	0.0455	91	48 - 164	5579
Toluene	mg/l	0.05000	0.04430	89	74 - 125	5579
Toluene	mg/l	0.05000	0.04430	89	74 - 125	5582
Xylenes, Total	mg/l	0.1500	0.1411	94	80 - 122	5579
Xylenes, Total	mg/l	0.1500	0.1411	94	80 - 122	5582
Methyl-t-butyl ether	mg/l	0.0500	0.0472	94	68 - 127	5579
Methyl-t-butyl ether	mg/l	0.0500	0.0472	94	68 - 127	5582
Methane	mg/L	1.33	1.20	90	82 - 121	2114
VOA Surr, 1,2-DCA, d4	% Rec			82	82 - 121	5579
VOA Surr, 1,2-DCA, d4	% Rec			82	82 - 121	5582

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA Surr, Toluene d8	% Rec			88	82 - 121	5579
VOA Surr, Toluene d8	% Rec			88	82 - 121	5582
VOA Surr, 4-BFB	% Rec			94	82 - 121	5579
VOA Surr, 4-BFB	% Rec			94	82 - 121	5582
VOA Surr, DBFM	% Rec			91	82 - 121	5579
VOA Surr, DBFM	% Rec			91	82 - 121	5582
BNA Surr-Nitrobenzene-d5	% Rec			80	82 - 121	5221
BNA Surr-2-Fluorobiphenyl	% Rec			77	82 - 121	5221
BNA Surr-Terphenyl d14	% Rec			87	82 - 121	5221

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Lead	mg/l	0.0500	0.0460	92	85 - 115	2539

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.20	90	82 - 121	2114

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	5.50	5.70	104	90 - 110	2028
Sulfate	mg/l	15.0	14.5	97	90 - 110	2029

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	5221	7/20/01	18:19
Acenaphthene	< 0.00100	mg/l	5221	7/20/01	18:19
Anthracene	< 0.00100	mg/l	5221	7/20/01	18:19
Fluoranthene	< 0.00100	mg/l	5221	7/20/01	18:19
Fluorene	< 0.00100	mg/l	5221	7/20/01	18:19
Pyrene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(a)anthracene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(a)pyrene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(b)fluoranthene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(k)fluoranthene	< 0.00100	mg/l	5221	7/20/01	18:19
Chrysene	< 0.00100	mg/l	5221	7/20/01	18:19
Dibenzo(a,h)anthracene	< 0.00200	mg/l	5221	7/20/01	18:19
Indeno(1,2,3-cd)pyrene	< 0.00200	mg/l	5221	7/20/01	18:19
Acenaphthylene	< 0.00100	mg/l	5221	7/20/01	18:19
Benzo(g,h,i)perylene	< 0.00200	mg/l	5221	7/20/01	18:19
Phenanthrene	< 0.00100	mg/l	5221	7/20/01	18:19

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzene	< 0.00060	mg/l	5579	7/18/01	0:21
Benzene	< 0.00060	mg/l	5582	7/18/01	0:21
Ethylbenzene	< 0.00070	mg/l	5579	7/18/01	0:21
Ethylbenzene	< 0.00070	mg/l	5582	7/18/01	0:21
Naphthalene	< 0.0006	mg/l	5579	7/18/01	0:21
Toluene	< 0.00050	mg/l	5579	7/18/01	0:21
Toluene	< 0.00050	mg/l	5582	7/18/01	0:21
Xylenes, Total	< 0.00080	mg/l	5579	7/18/01	0:21
Xylenes, Total	< 0.00080	mg/l	5582	7/18/01	0:21
Methyl-t-butyl ether	< 0.0003	mg/l	5579	7/18/01	0:21
Methyl-t-butyl ether	< 0.0003	mg/l	5582	7/18/01	0:21
VOA Surr, 1,2-DCA, d4	102.	% Rec	5579	7/18/01	0:21
VOA Surr, 1,2-DCA, d4	102.	% Rec	5582	7/18/01	0:21
VOA Surr, Toluene d8	97.	% Rec	5579	7/18/01	0:21
VOA Surr, Toluene d8	97.	% Rec	5582	7/18/01	0:21
VOA Surr, 4-BFB	97.	% Rec	5579	7/18/01	0:21
VOA Surr, 4-BFB	97.	% Rec	5582	7/18/01	0:21
VOA Surr, DBFM	96.	% Rec	5579	7/18/01	0:21
VOA Surr, DBFM	96.	% Rec	5582	7/18/01	0:21
BNA Surr-Nitrobenzene-d5	84.	% Rec	5221	7/20/01	18:19
BNA Surr-2-Fluorobiphenyl	80.	% Rec	5221	7/20/01	18:19
BNA Surr-Terphenyl d14	95.	% Rec	5221	7/20/01	18:19

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Lead	< 0.0030	mg/l	2539	7/18/01	16:12

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.100	mg/l	2028	7/17/01	20:20
Sulfate	< 1.00	mg/l	2029	7/17/01	15:45

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Ethylene Dibromide	< 0.00002	mg/l	2126	7/18/01	1:21
Methane	< 0.026	mg/L	2114	7/18/01	15:21

- Value outside Laboratory historical QC limits.

End of Report for Project 245498

TEST AMERICA, INC.-NASHVILLE
COOLER RECEIPT FORM

Client: SEI Env. BC# 245498

Cooler Received On: 7-17-01 And Opened On: 7-17-01 By: Mike McBride

Mike McBride
(Signature)

1. Temperature of Cooler when opened 2° Degrees Celsius
2. Were custody seals on outside of cooler and intact?.....YES NO
 a. If yes, what kind and where: () FRONT/BACK/SIDE
 b. Were the signature and date correct?.....YES NO
 c. Were custody seals on containers and intact?..... YES NO
3. Were custody papers inside cooler?..... YES NO
4. Were custody papers properly filled out (ink, signed, etc)?..... YES NO
5. Did you sign the custody papers in the appropriate place?..... YES NO
6. What kind of packing material used? BUBBLEWRAP PEANUTS VERMICULITE OTHER
7. Was sufficient ice used (if appropriate)?..... YES NO
8. Did all bottles arrive in good condition(unbroken)?..... YES NO
9. Were all bottle labels complete (#, date, signed, pres, etc)?..... YES NO
10. Did all bottle labels and tags agree with custody papers?..... YES NO
11. Were correct bottles used for the analysis requested?..... YES NO
12. Were VOA vials present?..... YES NO
 a. If so were air bubbles present?.....YES NO
13. Was sufficient amount of sample sent in each bottle?..... YES NO
14. Were correct preservatives used?..... YES NO
15. Was residual chlorine present?..... NO YES
16. Corrective action taken, if necessary:
 a. Name of person contacted: _____
 b. Date: _____



Division/Laboratory Name: _____

FAX CHAIN
TO COLUMBIA

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: SEI ENVIRONMENTAL INC Client #: 8990

Address: 3021 M=NAUGHTON DR SUITE 9

City/State/Zip Code: COLUMBIA, SC 29223

Project Manager: BOB BOLTON

Telephone Number: (803) 788-2535 Fax: (803) 788-2399

Sampler Name: (Print Name) JEFF WEYAND, JOHN MONEGHAN

Sampler Signature: [Signature] [Signature]

Project Name: HIGHWAY 11 GROCERY

Project #: 300388

Site/Location ID: _____ State: _____

Report To: _____

Invoice To: _____

Quote #: _____ PO#: _____

24548

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed: <u>7/24/01</u>	Fax Results: <u>Y N</u>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers								Analyze For	QC Deliverables					
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)	BTEX/PAH/MTBE			PAH-8170C	LEAD-200.7	EDB-801	NITRATE/NO ₂ -N	FERROUS IRON	METHANE-ASK-175M
SAMPLE ID																						
MW7	7/16/01		1430		G		GW	1	1													REMARKS
MW1			1420																			01: A 98242
MW8			1400																			43
MW10			1350																			44
MW5			1315																			45
T.B			N/A																			46
																						98247

Special Instructions: ★ TB - BTEX ONLY

Relinquished By: <u>[Signature]</u>	Date: <u>7/14/01</u>	Time: <u>1500</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>7-17-01</u>	Time: <u>0900</u>

LABORATORY COMMENTS:
 Init Lab Temp: _____
 Rec Lab Temp: 24
 Custody Seal: Y N N/A
 Bottles Supplied by TestAmerica: Y
 Method of Shipment: _____

Test America

INCORPORATED

ANALYTICAL REPORT

SEI 8990
BOB BOLTON
3021 MCNAUGHTON DR. STE 9
COLUMBIA, SC 29223

Lab Number: 01-A120261
Sample ID: MW9
Sample Type: Water
Site ID:

Project: 300388
Project Name: HIGHWAY 11 GROC. AMOCO
Sampler: JOHN MONEGHAN

Date Collected: 8/27/01
Time Collected: 12:20
Date Received: 8/28/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Acenaphthene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Fluorene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Chrysene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Acenaphthylene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
Phenanthrene	ND	ug/l	5.00	5.00	1	9/ 4/01	1:33	LMcDaniel	8270C	2880
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	8/31/01	6:49	J.Haley	8260B	2248
Toluene	ND	ug/l	2.0	2.0	1	8/31/01	6:49	J.Haley	8260B	2248
Ethylbenzene	ND	ug/l	2.0	2.0	1	8/31/01	6:49	J.Haley	8260B	2248
Xylenes, Total	ND	ug/l	2.0	2.0	1	8/31/01	6:49	J.Haley	8260B	2248
Methyl-t-butyl ether	ND	ug/l	2.0	2.0	1	8/31/01	6:49	J.Haley	8260B	2248
Naphthalene	ND	ug/l	5.0	5.0	1	8/31/01	6:49	J.Haley	8260B	2248
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	9/ 2/01	20:00	Henderson	8011	2973

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120261
 Sample ID: MW9
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	715.	ug/l	26.0	26.0	1	8/29/01	10:35	K. Stewart	RSK175M	546
METALS										
Ferrous Iron	5370	ug/L	200.	100.	2	8/28/01	18:52	S. Duncan	3500D	9857
Lead	617.	ug/L	3.00	3.00	1	8/29/01	15:42	G. McCord	6010B	257
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.24	mg/l	0.10	0.10	1	8/28/01	15:50	S. Overton	9056	9854
Sulfate	1.83	mg/l	1.00	1.00	1	8/28/01	15:50	S. Overton	9056	9854

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	980. ml	1.0 ml	8/29/01		D. Yeager	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	110.	68. - 143.
VOA Surr Toluene-d8	114.	78. - 127.
VOA Surr, 4-BFB	91.	73. - 127.
VOA Surr, DBFM	126.	76. - 135.
BNA Surr-Nitrobenzene-d5	64.	20. - 118.
BNA Surr-2-Fluorobiphenyl	52.	18. - 116.
BNA Surr-Terphenyl-d14	25.	10. - 119.
BNA Surr-Phenol-d5	10.	10. - 69.
BNA Surr-2-Fluorophenol	16.	10. - 148.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120261
Sample ID: MW9
Project: 300388
Page 3

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-2,4,6-Tribromophenol	35.	17. - 155.

- Recovery outside Laboratory historical or method prescribed limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Michael H. Dunn

Report Date: 9/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A120262
 Sample ID: MW11
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROC. AMOCO
 Sampler: JOHN MONEGHAN

Date Collected: 8/27/01
 Time Collected: 14:10
 Date Received: 8/28/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Acenaphthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Fluorene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Chrysene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Acenaphthylene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
Phenanthrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:09	LMcDaniel	8270C	2880
VOLATILE ORGANICS										
Benzene	398.	ug/l	10.0	2.0	5	8/31/01	11:26	J.Haley	8260B	2283
Toluene	2.3	ug/l	2.0	2.0	1	8/31/01	7:19	J.Haley	8260B	2248
Ethylbenzene	4.4	ug/l	2.0	2.0	1	8/31/01	7:19	J.Haley	8260B	2248
Xylenes, Total	170.	ug/l	2.0	2.0	1	8/31/01	7:19	J.Haley	8260B	2248
Methyl-t-butyl ether	65.0	ug/l	2.0	2.0	1	8/31/01	7:19	J.Haley	8260B	2248
Naphthalene	ND	ug/l	5.0	5.0	1	8/31/01	7:19	J.Haley	8260B	2248
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	9/ 2/01	20:27	Henderson	8011	2973

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120262
 Sample ID: MW11
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	8/29/01	10:39	K. Stewart	RSK175M	546
METALS										
Ferrous Iron	6880	ug/L	200.	100.	2	8/28/01	18:52	S. Duncan	3500D	9857
Lead	324.	ug/L	3.00	3.00	1	8/29/01	15:42	G. McCord	6010B	257
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.18	mg/l	0.10	0.10	1	8/28/01	15:50	S. Overton	9056	9854
Sulfate	1.58	mg/l	1.00	1.00	1	8/28/01	15:50	S. Overton	9056	9854

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	980. ml	1.0 ml	8/29/01		D. Yeager	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	68. - 143.
VOA Surr Toluene-d8	121.	78. - 127.
VOA Surr, 4-BFB	90.	73. - 127.
VOA Surr, DBFM	123.	76. - 135.
BNA Surr-Nitrobenzene-d5	69.	20. - 118.
BNA Surr-2-Fluorobiphenyl	57.	18. - 116.
BNA Surr-Terphenyl-d14	26.	10. - 119.
BNA Surr-Phenol-d5	12.	10. - 69.
BNA Surr-2-Fluorophenol	21.	10. - 148.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120262
Sample ID: MW11
Project: 300388
Page 3

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-2,4,6-Tribromophenol	64.	17. - 155.

- Recovery outside Laboratory historical or method prescribed limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Michael H. Dunn

Report Date: 9/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A120263
 Sample ID: MW12
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROC. AMOCO
 Sampler: JOHN MONEGHAN

Date Collected: 8/27/01
 Time Collected: 13:00
 Date Received: 8/28/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Acenaphthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Fluorene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Chrysene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Acenaphthylene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
Phenanthrene	ND	ug/l	5.00	5.00	1	9/ 4/01	2:45	LMcDaniel	8270C	2880
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	8/31/01	7:49	J.Haley	8260B	2248
Toluene	ND	ug/l	2.0	2.0	1	8/31/01	7:49	J.Haley	8260B	2248
Ethylbenzene	ND	ug/l	2.0	2.0	1	8/31/01	7:49	J.Haley	8260B	2248
Xylenes, Total	ND	ug/l	2.0	2.0	1	8/31/01	7:49	J.Haley	8260B	2248
Methyl-t-butyl ether	4.7	ug/l	2.0	2.0	1	8/31/01	7:49	J.Haley	8260B	2248
Naphthalene	ND	ug/l	5.0	5.0	1	8/31/01	7:49	J.Haley	8260B	2248
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	9/ 2/01	21:23	Henderson	8011	2973

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120263
 Sample ID: MW12
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	8/29/01	10:44	K. Stewart	RSK175M	546
METALS										
Ferrous Iron	4430	ug/L	200.	100.	2	8/28/01	18:52	S. Duncan	3500D	9857
Lead	93.0	ug/L	3.00	3.00	1	8/29/01	15:42	G. McCord	6010B	257
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.15	mg/l	0.10	0.10	1	8/28/01	15:50	S. Overton	9056	9854
Sulfate	2.66	mg/l	1.00	1.00	1	8/28/01	15:50	S. Overton	9056	9854

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	960. ml	1.0 ml	8/29/01		D. Yeager	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	109.	68. - 143.
VOA Surr Toluene-d8	109.	78. - 127.
VOA Surr, 4-BFB	93.	73. - 127.
VOA Surr, DBFM	127.	76. - 135.
BNA Surr-Nitrobenzene-d5	71.	20. - 118.
BNA Surr-2-Fluorobiphenyl	61.	18. - 116.
BNA Surr-Terphenyl-d14	22.	10. - 119.
BNA Surr-Phenol-d5	12.	10. - 69.
BNA Surr-2-Fluorophenol	21.	10. - 148.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120263
Sample ID: MW12
Project: 300388
Page 3

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-2,4,6-Tribromophenol	53.	17. - 155.

- Recovery outside Laboratory historical or method prescribed limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
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Report Approved By: Michael Dunn

Report Date: 9/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A120264
 Sample ID: CK-1
 Sample Type: Water
 Site ID:

Project: 300388
 Project Name: HIGHWAY 11 GROC. AMOCO
 Sampler: JOHN MONEGHAN

Date Collected: 8/27/01
 Time Collected: 12:35
 Date Received: 8/28/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Acenaphthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Fluorene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Chrysene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Acenaphthylene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
Phenanthrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:21	LMcDaniel	8270C	2880
VOLATILE ORGANICS										
Benzene	53.4	ug/l	2.0	2.0	1	8/30/01	19:20	J.Haley	8260B	2248
Toluene	78.0	ug/l	2.0	2.0	1	8/30/01	19:20	J.Haley	8260B	2248
Ethylbenzene	15.2	ug/l	2.0	2.0	1	8/30/01	19:20	J.Haley	8260B	2248
Xylenes, Total	77.8	ug/l	2.0	2.0	1	8/30/01	19:20	J.Haley	8260B	2248
Methyl-t-butyl ether	46.7	ug/l	2.0	2.0	1	8/30/01	19:20	J.Haley	8260B	2248
Naphthalene	ND	ug/l	5.0	5.0	1	8/30/01	19:20	J.Haley	8260B	2248
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	9/ 2/01	21:50	Henderson	8011	2973

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120264
 Sample ID: CK-1
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	331.	ug/l	26.0	26.0	1	8/29/01	10:52	K. Stewart	RSK175M	546
METALS										
Ferrous Iron	247.	ug/L	100.	100.	1	8/28/01	18:52	S. Duncan	3500D	9857
Lead	ND	ug/L	3.00	3.00	1	8/29/01	15:42	G. McCord	6010B	257
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.26	mg/l	0.10	0.10	1	8/28/01	15:50	S. Overton	9056	9854
Sulfate	1.28	mg/l	1.00	1.00	1	8/28/01	15:50	S. Overton	9056	9854

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	1000 ml	1.0 ml	8/29/01		D. Yeager	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	68. - 143.
VOA Surr Toluene-d8	112.	78. - 127.
VOA Surr, 4-BFB	97.	73. - 127.
VOA Surr, DBFM	119.	76. - 135.
BNA Surr-Nitrobenzene-d5	72.	20. - 118.
BNA Surr-2-Fluorobiphenyl	60.	18. - 116.
BNA Surr-Terphenyl-d14	42.	10. - 119.
BNA Surr-Phenol-d5	12.	10. - 69.
BNA Surr-2-Fluorophenol	24.	10. - 148.

Sample report continued . . .

ANALYTICAL REPORT

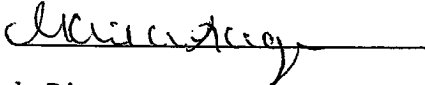
Laboratory Number: 01-A120264
Sample ID: CK-1
Project: 300388
Page 3

Surrogate -----	% Recovery -----	Target Range -----
BNA Surr-2,4,6-Tribromophenol	60.	17. - 155.

- Recovery outside Laboratory historical or method prescribed limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: 

Report Date: 9/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
BOB BOLTON
3021 MCNAUGHTON DR. STE 9
COLUMBIA, SC 29223

Lab Number: 01-A120265
Sample ID: CK-2
Sample Type: Water
Site ID:

Project: 300388
Project Name: HIGHWAY 11 GROC. AMOCO
Sampler: JOHN MONEGHAN

Date Collected: 8/27/01
Time Collected: 14:45
Date Received: 8/28/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Acenaphthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Fluorene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Benzo(a)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Benzo(a)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Benzo(b)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Benzo(k)fluoranthene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Chrysene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Dibenzo(a,h)anthracene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Acenaphthylene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Benzo(g,h,i)perylene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
Phenanthrene	ND	ug/l	5.00	5.00	1	9/ 4/01	3:57	LMcDaniel	8270C	2880
VOLATILE ORGANICS										
Benzene	ND	ug/l	2.0	2.0	1	8/30/01	19:50	J.Haley	8260B	2248
Toluene	ND	ug/l	2.0	2.0	1	8/30/01	19:50	J.Haley	8260B	2248
Ethylbenzene	ND	ug/l	2.0	2.0	1	8/30/01	19:50	J.Haley	8260B	2248
Xylenes, Total	ND	ug/l	2.0	2.0	1	8/30/01	19:50	J.Haley	8260B	2248
Methyl-t-butyl ether	ND	ug/l	2.0	2.0	1	8/30/01	19:50	J.Haley	8260B	2248
Naphthalene	ND	ug/l	5.0	5.0	1	8/30/01	19:50	J.Haley	8260B	2248
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	9/ 2/01	22:18	Henderson	8011	2973

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A120265
 Sample ID: CK-2
 Project: 300388
 Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS GC PARAMETERS										
Methane	ND	ug/l	26.0	26.0	1	8/29/01	11:05	K. Stewart	RSK175M	546
METALS										
Ferrous Iron	716.	ug/L	100.	100.	1	8/28/01	18:52	S. Duncan	3500D	9857
Lead	ND	ug/L	3.00	3.00	1	8/29/01	15:42	G.McCord	6010B	257
MISCELLANEOUS CHEMISTRY										
Nitrate-N as N	0.73	mg/l	0.10	0.10	1	8/28/01	15:50	S. Overton	9056	9854
Sulfate	2.35	mg/l	1.00	1.00	1	8/28/01	15:50	S. Overton	9056	9854

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	990. ml	1.0 ml	8/29/01		D.Yeager	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	107.	68. - 143.
VOA Surr Toluene-d8	108.	78. - 127.
VOA Surr, 4-BFB	93.	73. - 127.
VOA Surr, DBFM	119.	76. - 135.
BNA Surr-Nitrobenzene-d5	87.	20. - 118.
BNA Surr-2-Fluorobiphenyl	75.	18. - 116.
BNA Surr-Terphenyl-d14	39.	10. - 119.
BNA Surr-Phenol-d5	15.	10. - 69.
BNA Surr-2-Fluorophenol	30.	10. - 148.

Sample report continued . . .

ANALYTICAL REPORT

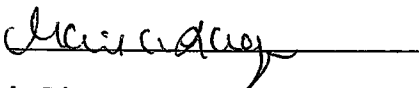
Laboratory Number: 01-A120265
Sample ID: CK-2
Project: 300388
Page 3

Surrogate -----	% Recovery -----	Target Range -----
ENA Surr-2,4,6-Tribromophenol	78.	17. - 155.

- Recovery outside Laboratory historical or method prescribed limits.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: 

Report Date: 9/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Acenaphthene	mg/l	< 0.00100	0.0520	0.0500	104	30. - 109.	2880	BLANK
Pyrene	mg/l	< 0.00100	0.0520	0.0500	104#	26. - 102.	2880	BLANK

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.00200	0.05580	0.05000	112	68. - 136.	2248	01-A120316
Toluene	mg/l	< 0.00200	0.05550	0.05000	111	68. - 135.	2248	01-A120316
VOA Surr 1,2-DCA-d4	% Rec				108	68. - 143.	2248	
VOA Surr Toluene-d8	% Rec				110	78. - 127.	2248	
VOA Surr, 4-BFB	% Rec				111	73. - 127.	2248	
VOA Surr, DBFM	% Rec				121	76. - 135.	2248	
BNA Surr-Nitrobenzene-d5	% Rec				110	20. - 118.	2880	
BNA Surr-2-Fluorobiphenyl	% Rec				99	18. - 116.	2880	
BNA Surr-Terphenyl-d14	% Rec				98	10. - 119.	2880	
BNA Surr-Phenol-d5	% Rec				115	10. - 69.	2880	
BNA Surr-2-Fluorophenol	% Rec				98	10. - 148.	2880	
BNA Surr-2,4,6-Tribromopheno	% Rec				114	17. - 155.	2880	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Lead	mg/l	< 0.0030	0.0530	0.0500	106	80 - 120	257	Duplicate

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Nitrate-N as N	mg/l	0.24	2.31	2.50	83	80 - 120	9854	01-A120261
Sulfate	mg/l	1.83	14.7	15.0	86	80 - 120	9854	01-A120261
Ethylene Dibromide	mg/l	< 0.00002	0.00030	0.00029	103	40 - 140	2973	blank

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Acenaphthene	mg/l	0.0520	0.0570	9.17	39.	2880
Pyrene	mg/l	0.0520	0.0560	7.41	37.	2880

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.05580	0.05610	0.54	20.	2248
Toluene	mg/l	0.05550	0.05480	1.27	22.	2248
VOA Surr 1,2-DCA-d4	% Rec		111.			2248
VOA Surr Toluene-d8	% Rec		110.			2248
VOA Surr, 4-BFB	% Rec		111.			2248
VOA Surr, DBFM	% Rec		121.			2248
BNA Surr-Nitrobenzene-d5	% Rec		124.			2880
BNA Surr-2-Fluorobiphenyl	% Rec		115.			2880
BNA Surr-Terphenyl-d14	% Rec		110.			2880
BNA Surr-Phenol-d5	% Rec		128.			2880
BNA Surr-2-Fluorophenol	% Rec		112.			2880
BNA Surr-2,4,6-Tribromophenol	% Rec		130.			2880

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
METALS						
Lead	mg/l	0.0530	0.0560	5.50	20	257

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Ethylene Dibromide	mg/l	0.00030	0.00030	0.00	50	2973
Methane	mg/L	1.40	1.20	15.38	50	546

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	2.31	2.43	5.06	20	9854
Sulfate	mg/l	14.7	15.3	4.00	20	9854

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.0500	0.0530	106	34 - 112	2880
Acenaphthene	mg/l	0.0500	0.0550	110	35 - 116	2880
Anthracene	mg/l	0.0500	0.0550	110	42 - 112	2880
Fluoranthene	mg/l	0.0500	0.0560	112	41 - 119	2880
Fluorene	mg/l	0.0500	0.0550	110	38 - 117	2880
Pyrene	mg/l	0.0500	0.0570	114	36 - 121	2880

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzo(a)anthracene	mg/l	0.0500	0.0580	116	38 - 121	2880
Benzo(a)pyrene	mg/l	0.0500	0.0580	116	38 - 126	2880
Benzo(b)fluoranthene	mg/l	0.0500	0.0630	126 #	30 - 122	2880
Benzo(k)fluoranthene	mg/l	0.0500	0.0570	114	37 - 133	2880
Chrysene	mg/l	0.0500	0.0570	114	38 - 122	2880
Dibenzo(a,h)anthracene	mg/l	0.0500	0.0610	122	20 - 140	2880
Indeno(1,2,3-cd)pyrene	mg/l	0.0500	0.0510	102	19 - 136	2880
Acenaphthylene	mg/l	0.0500	0.0530	106	38 - 115	2880
Benzo(g,h,i)perylene	mg/l	0.0500	0.0570	114	14 - 150	2880
Phenanthrene	mg/l	0.0500	0.0570	114	40 - 116	2880

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.05000	0.05390	108	74 - 123	2248
Benzene	mg/l	0.05000	0.05780	116	74 - 123	2283
Ethylbenzene	mg/l	0.05000	0.05350	107	80 - 121	2248
Naphthalene	mg/l	0.0500	0.0538	108	48 - 164	2248
Toluene	mg/l	0.05000	0.05440	109	74 - 125	2248
Xylenes, Total	mg/l	0.1500	0.1681	112	80 - 122	2248
Methyl-t-butyl ether	mg/l	0.0500	0.0445	89	68 - 127	2248
Methane	mg/L	1.33	1.40	105	82 - 121	546
VOA Surr 1,2-DCA-d4	% Rec			102	82 - 121	2248
VOA Surr 1,2-DCA-d4	% Rec			108	82 - 121	2283
VOA Surr Toluene-d8	% Rec			108	82 - 121	2248
VOA Surr Toluene-d8	% Rec			111	82 - 121	2283
VOA Surr, 4-BFB	% Rec			113	82 - 121	2248
VOA Surr, 4-BFB	% Rec			114	82 - 121	2283
VOA Surr, DBFM	% Rec			111	82 - 121	2248
VOA Surr, DBFM	% Rec			118	82 - 121	2283

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 300388

BNA Surr-Nitrobenzene-d5	% Rec	106	82 - 121	2880
BNA Surr-2-Fluorobiphenyl	% Rec	105	82 - 121	2880
BNA Surr-Terphenyl-d14	% Rec	113	82 - 121	2880
BNA Surr-Phenol-d5	% Rec	115	82 - 121	2880
BNA Surr-2-Fluorophenol	% Rec	117	82 - 121	2880
BNA Surr-2,4,6-Tribromophenol	% Rec	142	82 - 121	2880

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Lead	mg/l	0.0500	0.0540	108	80 - 120	257

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Methane	mg/L	1.33	1.40	105	82 - 121	546

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Nitrate-N as N	mg/l	2.50	2.39	96	90 - 110	9854
Sulfate	mg/l	15.0	14.9	99	90 - 110	9854

PROJECT QUALITY CONTROL DATA
Project Number: 300388

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Acenaphthene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Anthracene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Fluoranthene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Fluorene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Pyrene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Benzo(a)anthracene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Benzo(a)pyrene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Benzo(b)fluoranthene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Benzo(k)fluoranthene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Chrysene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Dibenzo(a,h)anthracene	< 0.00200	mg/l	2880	9/ 3/01	21:21
Indeno(1,2,3-cd)pyrene	< 0.00200	mg/l	2880	9/ 3/01	21:21
Acenaphthylene	< 0.00100	mg/l	2880	9/ 3/01	21:21
Benzo(g,h,i)perylene	< 0.00200	mg/l	2880	9/ 3/01	21:21
Phenanthrene	< 0.00100	mg/l	2880	9/ 3/01	21:21

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

VOA PARAMETERS					
Benzene	< 0.00060	mg/l	2248	8/30/01	3:19
Benzene	< 0.00060	mg/l	2283	8/31/01	3:20
Ethylbenzene	< 0.00070	mg/l	2248	8/30/01	3:19
Naphthalene	< 0.0006	mg/l	2248	8/30/01	3:19
Toluene	< 0.00050	mg/l	2248	8/30/01	3:19
Xylenes, Total	< 0.00080	mg/l	2248	8/30/01	3:19
Methyl-t-butyl ether	< 0.0003	mg/l	2248	8/30/01	3:19

PROJECT QUALITY CONTROL DATA
Project Number: 300388

VOA Surr 1,2-DCA-d4	103.	% Rec	2248	8/30/01	3:19
VOA Surr 1,2-DCA-d4	106.	% Rec	2283	8/31/01	3:20
VOA Surr Toluene-d8	108.	% Rec	2248	8/30/01	3:19
VOA Surr Toluene-d8	110.	% Rec	2283	8/31/01	3:20
VOA Surr, 4-BFB	95.	% Rec	2248	8/30/01	3:19
VOA Surr, 4-BFB	88.	% Rec	2283	8/31/01	3:20
VOA Surr, DBFM	112.	% Rec	2248	8/30/01	3:19
VOA Surr, DBFM	118.	% Rec	2283	8/31/01	3:20
BNA Surr-Nitrobenzene-d5	119.	% Rec	2880	9/ 3/01	21:21
BNA Surr-2-Fluorobiphenyl	110.	% Rec	2880	9/ 3/01	21:21
BNA Surr-Terphenyl-d14	116.	% Rec	2880	9/ 3/01	21:21
BNA Surr-Phenol-d5	134.	% Rec	2880	9/ 3/01	21:21
BNA Surr-2-Fluorophenol	123.	% Rec	2880	9/ 3/01	21:21
BNA Surr-2,4,6-Tribromophenol	114.	% Rec	2880	9/ 3/01	21:21

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Nitrate-N as N	< 0.10	mg/l	9854	8/28/01	15:50
Sulfate	< 1.00	mg/l	9854	8/28/01	15:50

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Ethylene Dibromide	< 0.00002	mg/l	2973	9/ 2/01	16:18
Methane	< 0.026	mg/L	546	8/29/01	9:49

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 250757

Test America

INCORPORATED

COOLER RECEIPT FORM

Client: SEI Environmental BC# 250757

Cooler Received On: 8-28-01 And Opened On: 8-28-01 By: CRAIG COTHRON

[Signature]
(Signature)

1. Temperature of Cooler when opened 4.0 DEGREES C
2. Were custody seals on outside of cooler and intact?.....YES NO
- a. If yes, what kind and where: _____
- b. Were the signature and date correct?.....YES NO
3. Were custody seals on containers intact?.....YES NO
4. Were custody papers inside cooler?.....YES NO
5. Were custody papers properly filled out (ink, signed, etc)?.....YES NO
6. Did you sign the custody papers in the appropriate place?.....YES NO
7. What kind of packing material used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES NO
9. Did all bottles arrive in good condition (unbroken)?.....YES NO
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....YES NO
11. Did all bottle labels and tags agree with custody papers?.....YES NO
12. Were correct bottles used for the analysis requested?.....YES NO
13. If present, was any observable voa headspace present?.....YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?....YES NO
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present (if appropriate)?.....YES NO
18. Corrective action taken, if necessary:
 - a. Name of person contacted: SEE ATTACHED FOR RESOLUTION
 - b. Date: _____

Cooler Receipt Form

LF-1

4/6/01



Division/Laboratory Name: TO COLUMBIA

FAX CHAIN TO COLUMBIA

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring

Client Name: SEL ENVIRONMENTAL INC Client #: 8990 250757

Address: 3021 McNAUGHTON RD SUITE 9

City/State/Zip Code: COLUMBIA, SC 29223

Project Manager: BOB BOLTON

Telephone Number: (803) 788-2335 Fax: (803) 788-2399

Sampler Name: (Print Name) JOHN MONEGHAN

Sampler Signature: [Signature]

Project Name: HIGHWAY 11 GRD. (AMOCO)

Project #: 300388

Site/Location ID: _____ State: _____

Report To: _____

Invoice To: _____

Quote #: _____ PO#: _____

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed: <u>9/4/01</u>	Fax Results: <u>Y (N)</u>	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____	
								HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)			None
			<u>8/27/01</u>	<u>1200</u>	<u>G</u>		<u>GW</u>								<u>82006</u> <u>BENZOPHANTHRENE</u>		<u>REMARKS</u> <u>120261</u> <u>62</u> <u>63</u> <u>64</u> <u>120265</u>
				<u>1410</u>											<u>EDB - 801</u>		
				<u>1300</u>											<u>PAT - 8270C</u>		
				<u>1255</u>											<u>LEAD</u>		
				<u>1415</u>	<u>G</u>										<u>NITRATE/SULFATE</u> <u>FERRIC IRON</u> <u>METHANE</u>		

Special Instructions:

Relinquished By: <u>[Signature]</u>	Date: <u>8/27/01</u>	Time: <u>1700</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>8-28-01</u>	Time: <u>920</u>

LABORATORY COMMENTS:

Init Lab Temp: _____

Rec Lab Temp: _____

Custody Seals: Y N N/A

Bottles Supplied by TestAmerica: Y N

Method of Shipment: _____

Utility	On-site or Distance / Direction from site	Depth to Utility
Water	On-site	2 to 4 feet
Electric	On-site	2 to 4 feet
Telephone	On-site and along SC Highway 11	2 to 3 feet

Description of Receptor	Distance / Direction from site
Water Well, identified as WW-1	On-site
Water Well	Approximately 500 feet northeast of site
Fall Creek	Approximately 300 feet northeast of site
Tributary to Fall Creek	Approximately 150 feet south of site

A. CURRENT LAND USE - Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1000-foot radius for current land use. Complete the table below. Additional sheets may be attached if necessary.

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation? (Yes or No)		Exposure point or Reason for Non- Selection	Data Requirements (IF pathway selected)
Air	Inhalation	<u>Yes</u>	<u>No</u>	Odors not detected	
	Explosion Hazard	<u>Yes</u>	<u>No</u>	Odors not detected	
Ground-Water	Ingestion	<u>Yes</u>	No	One water well (WW-1) is located approximately 150 feet northwest of Monitor Well MW-1.	Laboratory results failed to detect petroleum hydrocarbons in this well.
	Dermal Contact	<u>Yes</u>	No		
	Volatile Inhalation	<u>Yes</u>	No		
Surface Water	Ingestion	<u>Yes</u>	No	Fall Creek is located approximately 300 feet northeast of the site.	Laboratory results detected petroleum hydrocarbons in Fall Creek
	Dermal Contact	<u>Yes</u>	No		
	Volatile Inhalation	<u>Yes</u>	No		
Surficial Soil	Ingestion	Yes	<u>No</u>	The surface is not completely paved with asphalt and/or concrete; however, no surface staining of soils is evident.	
	Dermal Contact	Yes	<u>No</u>		
	Volatile Inhalation	Yes	<u>No</u>		
	Leaching to Ground-Water	Yes	<u>No</u>		
Subsurface Soil	Ingestion	Yes	<u>No</u>	The surface is not completely paved with asphalt and/or concrete; however, no surface staining of soils is evident.	
	Dermal Contact	Yes	<u>No</u>		
	Volatile Inhalation	Yes	<u>No</u>		
	Leaching to Ground-Water	<u>Yes</u>	No		

B. FUTURE LAND USE - Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1000-foot radius for current land use. Complete the table below. Additional sheets may be attached if necessary.

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation? (Yes or No)		Exposure point or Reason for Non- Selection	Data Requirements (IF pathway selected)
Air	Inhalation	<u>Yes</u>	<u>No</u>	Odors not detected	
	Explosion Hazard	<u>Yes</u>	<u>No</u>	Odors not detected	
Ground-Water	Ingestion	<u>Yes</u>	No	One water well (WW-1) is located approximately 150 feet northwest of Monitor Well MW-1.	Laboratory results failed to detect petroleum hydrocarbons in this well.
	Dermal Contact	<u>Yes</u>	No		
	Volatile Inhalation	<u>Yes</u>	No		
Surface Water	Ingestion	<u>Yes</u>	No	Fall Creek is located approximately 300 feet northeast of the site.	Laboratory results detected petroleum hydrocarbons in Fall Creek
	Dermal Contact	<u>Yes</u>	No		
	Volatile Inhalation	<u>Yes</u>	No		
Surficial Soil	Ingestion	Yes	<u>No</u>	The surface is not completely paved with asphalt and/or concrete; however, no surface staining of soils is evident.	
	Dermal Contact	Yes	<u>No</u>		
	Volatile Inhalation	Yes	<u>No</u>		
	Leaching to Ground-Water	Yes	<u>No</u>		
Subsurface Soil	Ingestion	Yes	<u>No</u>	The surface is not paved with asphalt and/or concrete; however, no surface staining of soils is evident.	
	Dermal Contact	Yes	<u>No</u>		
	Volatile Inhalation	Yes	<u>No</u>		
	Leaching to Ground-Water	<u>Yes</u>	No		

Leachability Input Parameters

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management

Site Data

Facility Name: Highway 11 Grocery Site ID # 03439

Input Parameters

Percent Sand in soil	<u>63</u>	%	5% < sand < 70%	
Percent Clay in soil	<u>10</u>	%	5% < clay < 60%	
DAF	<u>8</u>			
Worst Case Soil Analyses	Benzene	<u>93.68</u>	mg/Kg	C _s
	Toluene	<u>678.2</u>	mg/Kg	C _s
	Ethylbenzene	<u>678.2</u>	mg/Kg	C _s
	Xylenes	<u>1061</u>	mg/Kg	C _s
	Naphthalene	<u>110.3</u>	mg/Kg	C _s
	Other CoC	<u> </u>	mg/Kg	C _s
				Figure
Natural organic carbon content	<u>4/1000</u>	mg/Kg	f _{oc}	
TPH	<u>57.6</u>	mg/Kg	TPH	
Porosity	<u>0.48</u>	decimal %	φ	C1
Residual water content	<u>0.04</u>	decimal %	W _r	C2
Bulk density of soil	<u>1.45</u>	g/cc	B _d	C3
Soil hydraulic conductivity	<u>1.4 x 10⁻³</u>	cm/sec	K _r	C4
Average annual recharge	<u>25</u>	cm	H _w	
Wetting front suction (negative number)	<u>-10</u>	cm	H _r	C5
Distance from highest soil contamination to water table	<u>152</u>	cm	L	
Groundwater SSTL (or RBSL if appropriate)	<u> </u>	mg/L	C _{GWsstl}	

List possible human exposure pathways from soil:

Leachability Results and Conclusions

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management

Site Data

Facility Name: Highway 11 Grocery Site ID # 03439
 Chemical of Concern (Benzene, Naphthalene, etc.): Benzene

(Please use a separate form for each Chemical of Concern that exceeds the RBSL in soil.)

Chemical Specific Data

Biodegradation half-life period	<u>16</u>	days	$t_{1/2}$	Refer to
Soil/water partitioning coefficient	<u>81</u>	mg/L	K_{oc}	Table
Henry's law constant	<u>0.226</u>		H'	C2

Results

				Equation Set	Step
Total organic carbon content	<u>0.001</u>	decimal %	f_{oc}	I	1
Air filled porosity	<u>0.440</u>	decimal %	f	I	2
Infiltration time	<u>29388.062</u>	seconds	t	II	1
Velocity of water	<u>5354.362</u>	ft/yr	V_w	II	2
Soil/water distribution coefficient	<u>0.081</u>	mL/g	K_d	III	1
CoC percolation rate	<u>4302.618</u>	ft/yr	V_c	III	2
Time to reach groundwater	<u>0.423</u>	days	T_c	IV	1
Concentration to protect groundwater	<u>0.005</u>	mg/L	C_p	IV	2
Site specific target level	<u>0.003</u>	mg/Kg	C_{Sstl}	V	

Conclusions

Does concentration of CoC in soil exceed SSTL? Yes No

Risk of human exposure due to contaminated soil Yes No

Leachability Results and Conclusions

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management

Site Data

Facility Name: Highway 11 Grocery Site ID # 03439
 Chemical of Concern (Benzene, Naphthalene, etc.): Toluene

(Please use a separate form for each Chemical of Concern that exceeds the RBSL in soil.)

Chemical Specific Data

Biodegradation half-life period	<u>22</u>	days	$t_{1/2}$	Refer to
Soil/water partitioning coefficient	<u>133</u>	mg/L	K_{oc}	Table
Henry's law constant	<u>0.301</u>		H'	C2

Results

				Equation Set	Step
Total organic carbon content	<u>0.001</u>	decimal %	f_{oc}	I	1
Air filled porosity	<u>0.440</u>	decimal %	f	I	2
Infiltration time	<u>29388.062</u>	seconds	t	II	1
Velocity of water	<u>5354.362</u>	ft/yr	V_w	II	2
Soil/water distribution coefficient	<u>0.133</u>	mL/g	K_d	III	1
CoC percolation rate	<u>3820.808</u>	ft/yr	V_c	III	2
Time to reach groundwater	<u>0.476</u>	days	T_c	IV	1
Concentration to protect groundwater	<u>1.015</u>	mg/L	C_p	IV	2
Site specific target level	<u>1.115</u>	mg/Kg	C_{Sstl}	V	

Conclusions

Does concentration of CoC in soil exceed SSTL? Yes No

Risk of human exposure due to contaminated soil Yes No

Leachability Results and Conclusions

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management

Site Data

Facility Name: Highway 11 Grocery Site ID # 03439
 Chemical of Concern (Benzene, Naphthalene, etc.): Ethylbenzene

(Please use a separate form for each Chemical of Concern that exceeds the RBSL in soil.)

Chemical Specific Data

Biodegradation half-life period	<u>10</u>	days	$t_{1/2}$	Refer to
Soil/water partitioning coefficient	<u>176</u>	mg/L	K_{oc}	Table
Henry's law constant	<u>0.280</u>		H'	C2

Results

				Equation Set	Step
Total organic carbon content	<u>0.001</u>	decimal %	f_c	I	1
Air filled porosity	<u>0.440</u>	decimal %	f	I	2
Infiltration time	<u>29388.062</u>	seconds	t	II	1
Velocity of water	<u>5354.362</u>	ft/yr	V_w	II	2
Soil/water distribution coefficient	<u>0.176</u>	mL/g	K_d	III	1
CoC percolation rate	<u>3496.989</u>	ft/yr	V_c	III	2
Time to reach groundwater	<u>0.521</u>	days	T_c	IV	1
Concentration to protect groundwater	<u>0.726</u>	mg/L	C_p	IV	2
Site specific target level	<u>1.055</u>	mg/Kg	C_{Sstl}	V	

Conclusions

Does concentration of CoC in soil exceed SSTL? Yes No

Risk of human exposure due to contaminated soil Yes No

Leachability Results and Conclusions

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management

Site Data

Facility Name: Highway 11 Grocery Site ID # 03439
 Chemical of Concern (Benzene, Naphthalene, etc.): Xylenes

(Please use a separate form for each Chemical of Concern that exceeds the RBSL in soil.)

Chemical Specific Data

Biodegradation half-life period	<u>28</u>	days	$t_{1/2}$	Refer to
Soil/water partitioning coefficient	<u>639</u>	mg/L	K_{oc}	Table
Henry's law constant	<u>0.278</u>		H'	C2

Results

				Equation Set	Step
Total organic carbon content	<u>0.001</u>	decimal %	f_{cs}	I	1
Air filled porosity	<u>0.440</u>	decimal %	f	I	2
Infiltration time	<u>29388.062</u>	seconds	t	II	1
Velocity of water	<u>5354.362</u>	ft/yr	V_w	II	2
Soil/water distribution coefficient	<u>0.638</u>	mL/g	K_d	III	1
CoC percolation rate	<u>1828.437</u>	ft/yr	V_c	III	2
Time to reach groundwater	<u>0.996</u>	days	T_c	IV	1
Concentration to protect groundwater	<u>10.250</u>	mg/L	C_p	IV	2
Site specific target level	<u>54.095</u>	mg/Kg	C_{Sstl}	V	

Conclusions

Does concentration of CoC in soil exceed SSTL? Yes No

Risk of human exposure due to contaminated soil Yes No

Leachability Results and Conclusions

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management

Site Data

Facility Name: Highway 11 Grocery Site ID # 03439
 Chemical of Concern (Benzene, Naphthalene, etc.): Naphthalene

(Please use a separate form for each Chemical of Concern that exceeds the RBSL in soil.)

Chemical Specific Data

Biodegradation half-life period	<u>48</u>	days	$t_{1/2}$	Refer to
Soil/water partitioning coefficient	<u>1543</u>	mg/L	K_{oc}	Table
Henry's law constant	<u>0.002</u>		H'	C2

Results

				Equation Set	Step
Total organic carbon content	<u>0.001</u>	decimal %	f_{oc}	I	1
Air filled porosity	<u>0.440</u>	decimal %	f	I	2
Infiltration time	<u>29388.062</u>	seconds	t	II	1
Velocity of water	<u>5354.362</u>	ft/yr	V_w	II	2
Soil/water distribution coefficient	<u>1.541</u>	mL/g	K_d	III	1
CoC percolation rate	<u>946.588</u>	ft/yr	V_c	III	2
Time to reach groundwater	<u>1.923</u>	days	T_c	IV	1
Concentration to protect groundwater	<u>0.026</u>	mg/L	C_p	IV	2
Site specific target level	<u>0.328</u>	mg/Kg	C_{SSTL}	V	

Conclusions

Does concentration of CoC in soil exceed SSTL? Yes No

Risk of human exposure due to contaminated soil Yes No



Summary of Slug Test
Division of Underground Storage Tank Management

Site Data

UST Permit #: 03439 County: Daconee
Facility Name: Highway 11 Grocery

Slug Data

See Appendix _____ Table _____ Figure _____ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by manually with water level indicator
[Hermit Data Logger, Manually with Water Level Indicator, etc. (list method)].

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in Well(s) Number	MW-3	MW-6	DMW-1
Initial Rise/Drawdown in Well (feet)	0.75	2.77	1.07
Radius of Well Casing (feet)	0.083	0.083	0.083
Effective Radius of Well (feet)	0.271	0.271	0.25
Static Saturated Aquifer Thickness (feet)	4.09	12.46	19.26
Length of Well Screen (feet)	10	15	5
Static Height of Water Column in Well (ft)	4.09	12.46	19.26

Calculations

See Appendix _____ Table _____ Figure _____ for calculations (complete as appropriate).

The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.).

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	MW-3	MW-6	DMW-1
Hydraulic Conductivity <u>FT/DAY</u>	0.171	0.410	9.36

Thickness of the aquifer used to calculate hydraulic conductivity was 8.28 (AVG) feet.

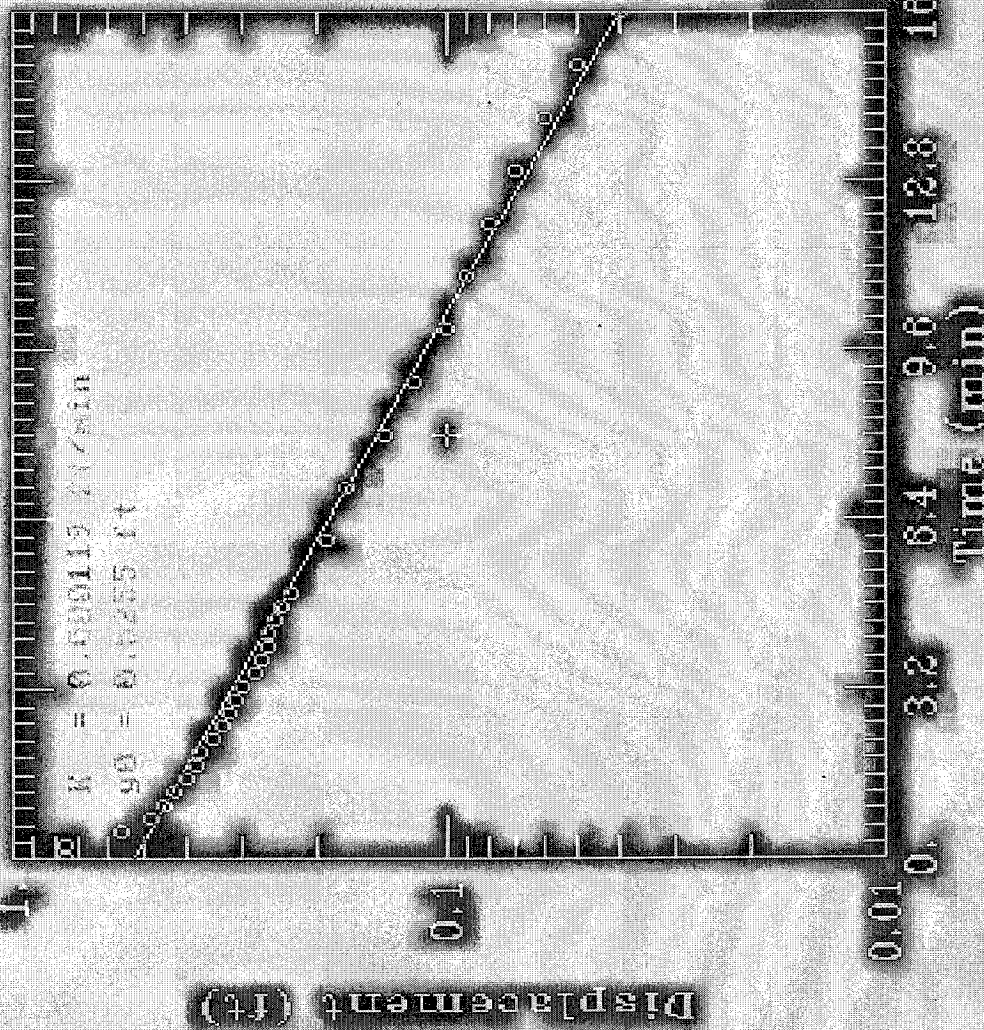
The aquifer is _____ confined _____ semi-confined water table (check as appropriate).

The estimated seepage velocity is 13.03 FT/YR feet per year based on

a hydraulic conductivity of 106.03 FT/YR, a hydraulic gradient of 0.0430 ft/ft, and

a porosity of 35 percent for Sandy loam soil (list type i.e., silty sand, clay, etc.).

Highway 11 Grocery / Monitor Well RW-3

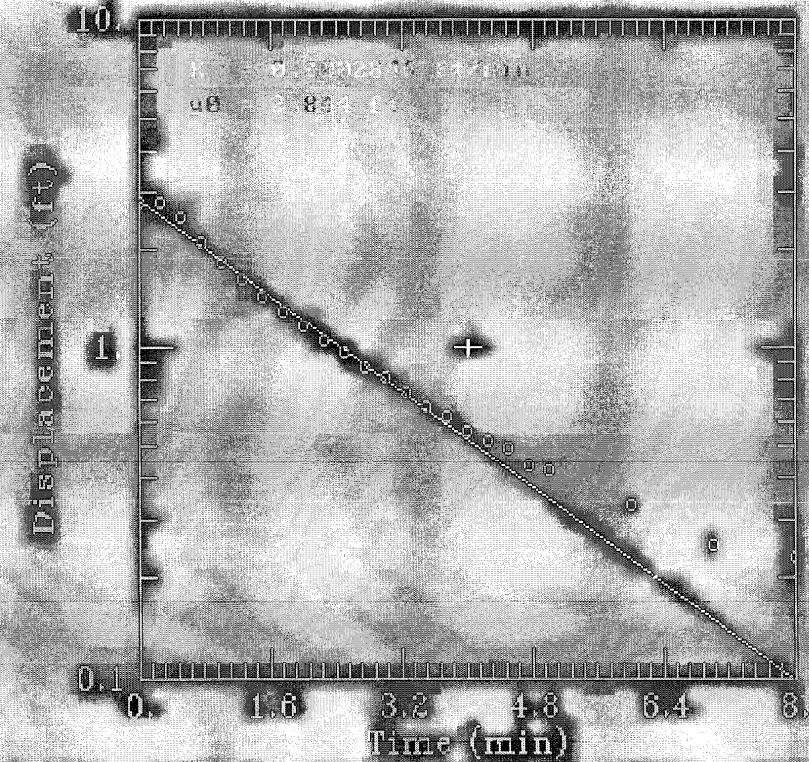


Bower-Rice
Unconfined
hwy11mw3.dat
Step size: 1
Percent: 1.0

AQTESOLV
GERSCHY & MILLER, INC.
Modeling Group

Select a function (F1=help, F2=set anchor pt., F3=drag line, F4=refresh):

hwy11 recovery / monitor W 10-6

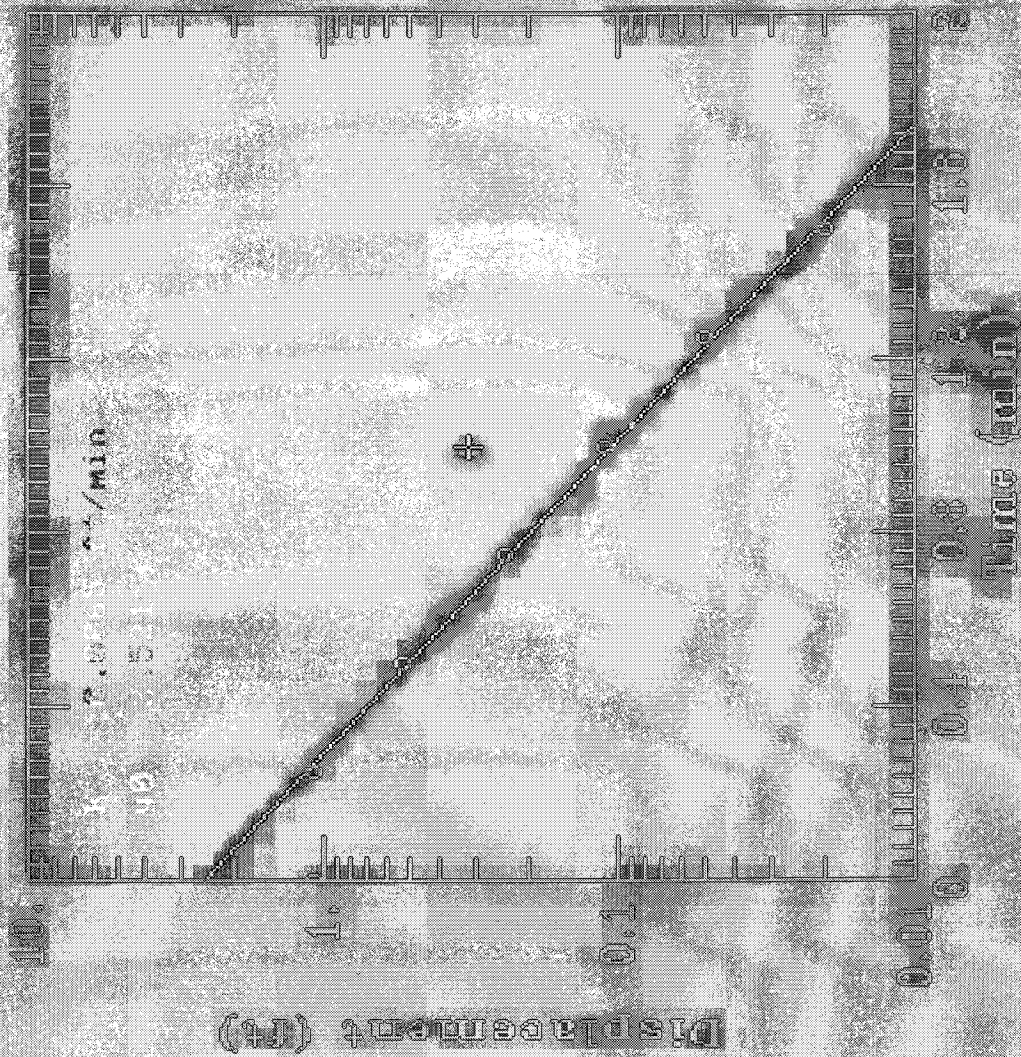


**Bower-Rice
Unconfined
hwy11mw6
Step size: 1
Percent: 1.0**

1200 BSC
SOUTHWEST
WILCOX
Engineering Group

Select a function (F1=help, F2=set anchor pt., F3=drag line, F4=refresh):

Header 11 - Unconfined



Bower-Rice
Unconfined
hwyl1dmw1.dat
Step size: 1
Percent: 1.0



Select a function (F1=help, F2=set anchor pt., F3=drag line, F4=refresh):

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence
Version 1.3

1. HYDROGEOLOGY

Seepage Velocity* (ft/yr) or (cm/sec)

Hydraulic Conductivity (ft/ft)

Hydraulic Gradient (-)

Porosity (-)

2. DISPERSION

Longitudinal Dispersivity* (ft)

Transverse Dispersivity* (ft)

Vertical Dispersivity* (ft)

Estimated Plume Length (ft)

3. ADSORPTION

Retardation Factor* (-) or (kg/l)

Soil Bulk Density (kg/l)

Partition Coefficient (L/kg)

Fraction Organic Carbon (-)

4. BIODEGRADATION

1st Order Decay Coeff* (per yr) or (year)

Solute Half-Life (year)

or Instantaneous Reaction Model

Delta Oxygen* (mg/L)

Delta Nitrate* (mg/L)

Observed Ferrous Iron* (mg/L)

Delta Sulfate* (mg/L)

Observed Methane* (mg/L)

5. GENERAL

Modeled Area Length* (ft)

Modeled Area Width* (ft)

Simulation Time* (yr)

6. SOURCE DATA

Source Thickness in Sat. Zone* (ft)

Source Zones:	Width* (ft)	Conc. (mg/L)*
1	0	0
2	80	1.5
3	120	5.7
4	80	1.5
5	0	0

Source Decay (see Help): (yr)

Solute Mass in NAPL, Soil (Kg)

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	Dist. from Source (ft)
5.7	0
17.1	75
0.53	150
	225
	300
	375
	450
	525
	600
	675
	750

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

Highway 11 Grocery Benzene Run Name

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

View of Plume Looking Down

Data Input Instructions:

1. Enter value directly... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Data used directly in model. Value calculated by model. (Don't enter any data).

Variable*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN
CENTERLINE

View Output

Help

Recalculate This Sheet

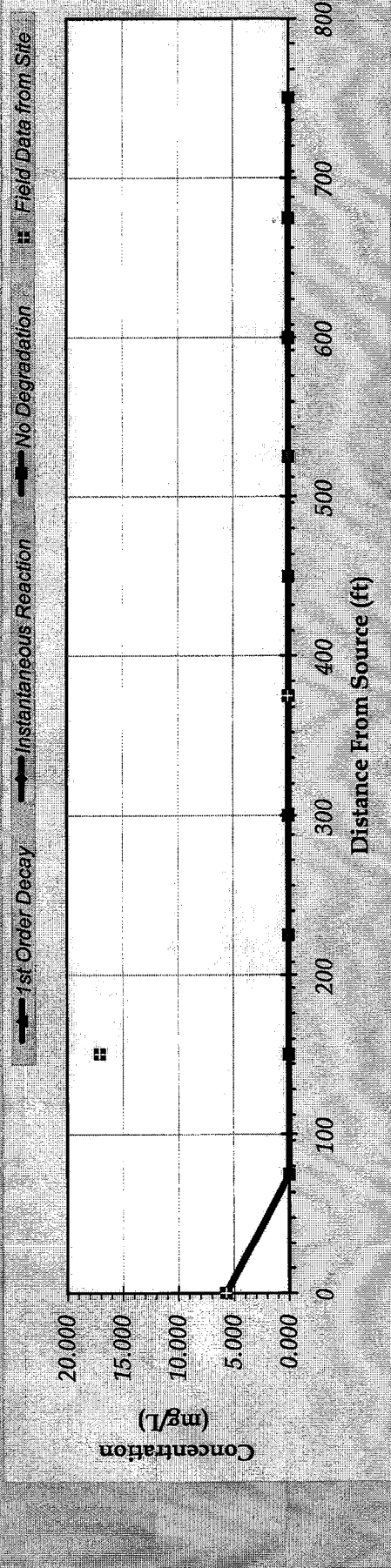
Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

Figure 1a: BIOSCREEN Input Screen

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	5.700	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	5.700	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	5.700		17.100			0.053					

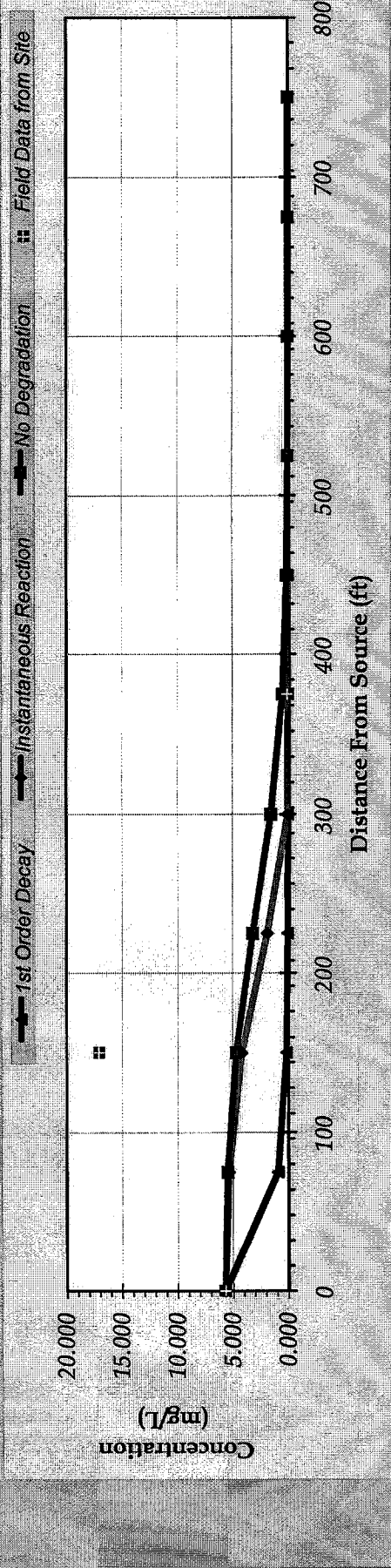


Time:

Figure 1b: Centerline Output

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)														
	0	75	150	225	300	375	450	525	600	675	750				
No Degradation	5.700	5.460	4.697	3.185	1.518	0.468	0.088	0.010	0.001	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	5.700	0.933	0.151	0.024	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.700	5.333	4.185	1.895	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	5.700		17.100			0.053									



Time:

Figure 1c: Centerline Output

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence
Version 1.3

1. HYDROGEOLOGY

Seepage Velocity* (ft/yr)

Hydraulic Conductivity (ft)

Hydraulic Gradient (cm/sec)

Porosity (ft)

(-)

2. DISPERSION

Longitudinal Dispersion* (ft)

Transverse Dispersion* (ft)

Vertical Dispersion* (ft)

Estimated Plume Length (ft)

3. ADSORPTION

Retardation Factor* (-)

Soil Bulk Density (kg/l)

Partition Coefficient (L/kg)

Fraction Organic Carbon (-)

4. BIODEGRADATION

1st Order Decay Coeff* (per/yr)

Solute Half-Life (year)

or Instantaneous Reaction Model

Delta Oxygen* (mg/L)

Delta Nitrate* (mg/L)

Observed Ferrous Iron* (mg/L)

Delta Sulfate* (mg/L)

Observed Methane* (mg/L)

5. GENERAL

Modeled Area Length* (ft)

Modeled Area Width* (ft)

Simulation Time* (yr)

6. SOURCE DATA

Source Thickness in Sat. Zone* (ft)

Source Zones:	Width* (ft)	Conc. (mg/L)*
1	0	0
2	80	7.46
3	120	25.8
4	80	7.46
5	0	0

Source Decay (see Help): (yr)

Soluble Mass In NAPL, Soil (Kg)

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	Dist. from Source (ft)
25.8	0
0	75
0	150
34.4	225
0	300
0	375
0.78	450
0	525
0	600
0	675
0	750

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter '0'

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN
CENTERLINE

View Output

Help

Recalculate This Sheet

RUN ARRAY

View Output

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

Data Input Instructions:

1. Enter value directly in grey cells below. (To restore formulas, hit button below).

2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Data used directly in model.

Value calculated by model.

(Don't enter any data).

Highway 11 Grocery Tolltione

Run Name:

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths

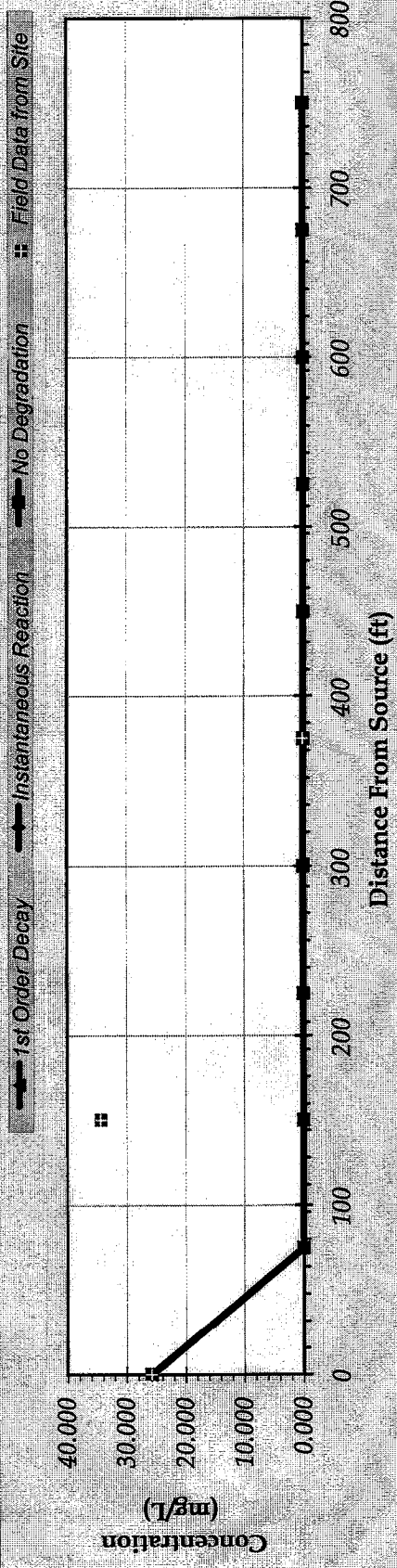
View of Plume Looking Down

Figure 2a: BIOSCREEN Input Screen

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	75	150	225	300	375	450	525	600	675	750
No Degradation	25.800	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	25.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	25.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	25.800		34.400			0.078					



Time:

Calculate Animation

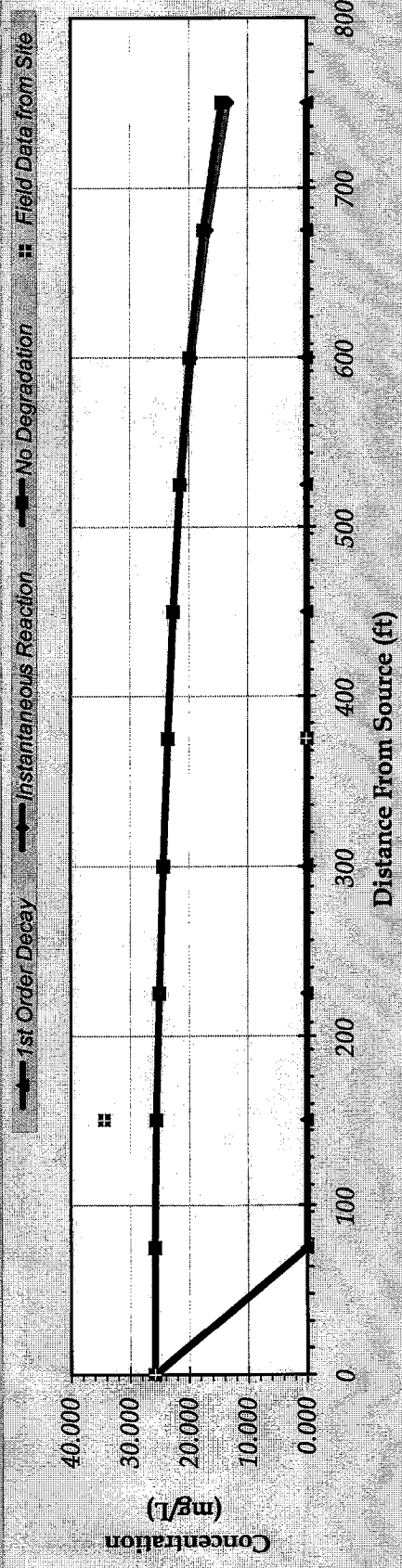
Return to Input

Recalculate This Sheet

Figure 2b: Centerline Output

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	25.800	25.791	25.556	25.003	24.303	23.532	22.639	21.473	19.809	17.453	14.387
1st Order Decay	25.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	25.800	25.791	25.556	25.002	24.299	23.515	22.589	21.342	19.517	16.886	13.424
Field Data from Site	25.800		34.400	0.078							



Time:

Figure 2c: Centerline Output

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence
Version 1.3

1. HYDROGEOLOGY

Seepage Velocity* V_s (ft/yr) ↑ or

Hydraulic Conductivity K (cm/sec) (ft/ft) (-)

Porosity n (-)

2. DISPERSION

Longitudinal Dispersivity* α_x (ft) ↑ or

Transverse Dispersivity* α_y (ft) ↑ or

Vertical Dispersivity* α_z (ft) ↑ or

Estimated Plume Length L_p (ft) ↑ or

3. ADSORPTION

Retardation Factor* R (-) ↑ or

Soil Bulk Density ρ_{so} (kg/l) ↑ or

Partition Coefficient K_{oc} (l/kg) ↑ or

Fraction Organic Carbon f_{oc} (-) ↑ or

4. BIODEGRADATION

1st Order Decay Coeff* λ (per yr) ↑ or

Solute Half-Life $t_{-1/2}$ (year) ↑ or

or Instantaneous Reaction Model

Delta Oxygen* DO (mg/L) ↑ or

Delta Nitrate* NO_3 (mg/L) ↑ or

Observed Ferrous Iron* Fe^{2+} (mg/L) ↑ or

Delta Sulfate* SO_4 (mg/L) ↑ or

Observed Methane* CH_4 (mg/L) ↑ or

5. GENERAL

Modeled Area Length* (ft) ↑ or

Modeled Area Width* (ft) ↑ or

Simulation Time* (yr) ↑ or

6. SOURCE DATA

Source Thickness in Sat. Zone* (ft) ↑ or

Source Zones:	Width* (ft)	Conc. (mg/L)*
1	0	0
2	80	1.4
3	120	4.76
4	80	1.4
5	0	0

Source Decay (see Help) (yr)

Source Half-life* (yr)

Soluble Mass In NAPL, Soil (kg)

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	Dist. from Source (ft)
4.76	0
0	75
0	150
3.06	300
0	450
0.15	600
0	675
0	750

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

Highway 11 Grocery Ethylbenzene Run Name

Data Input Instructions:

- Enter value directly... or
- Calculate by filling in grey cells below. (To restore formulas, hit button below)

Data used directly in model. Value calculated by model. (Don't enter any data).

Variable*

Help

Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

RUN CENTERLINE

View Output

RUN ARRAY

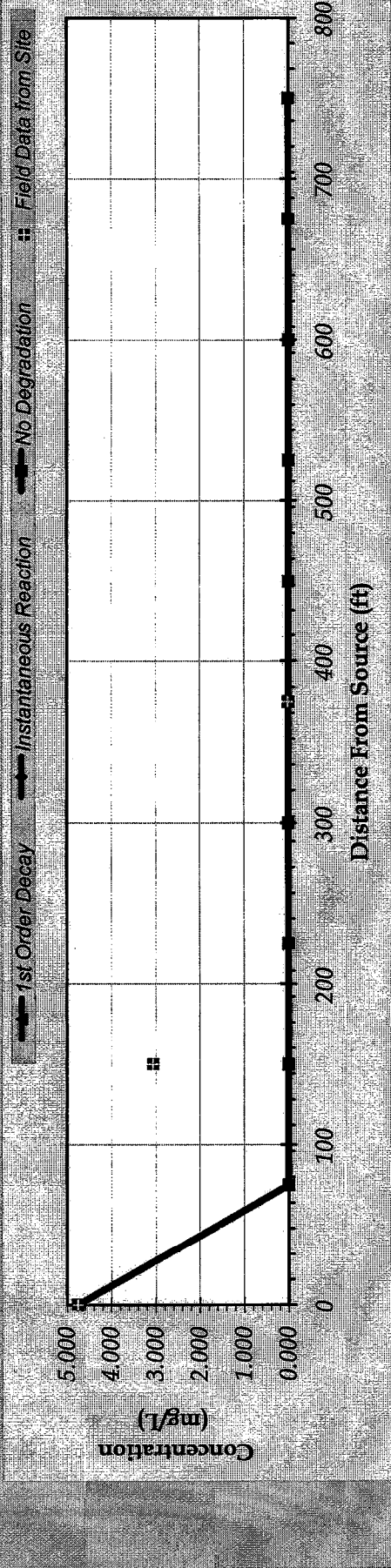
View Output

8. CHOOSE TYPE OF OUTPUT TO SEE:

Figure 3a: BIOSCREEN Input Screen

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	4.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	4.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	4.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	4.760		3.060			0.015					

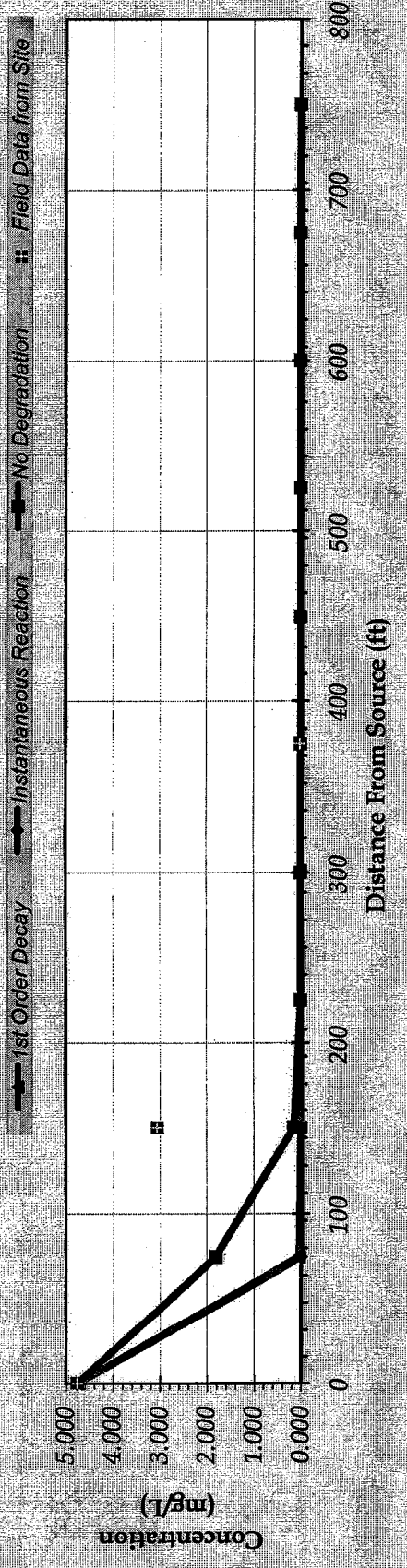


Time:

Figure 3b: Centerline Output

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	4.760	1.813	0.152	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	4.760	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	4.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	4.760		3.060			0.015					



Time:

Figure 3c: Centerline Output

BIOSCREEN Natural Attenuation Decision Support System
 Air Force Center for Environmental Excellence

Version 1.3

Run Name: **Highway 11 Grocery**

Data Input Instructions:
 1. Enter value directly...or
 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
 -Data used directly in model.
 -Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity* Vs (ft/yr)
 or
 Hydraulic Conductivity K (cm/sec)
 Hydraulic Gradient i (ft/ft)
 Porosity n (-)

2. DISPERSION

Longitudinal Dispersivity* alpha x (ft)
 Transverse Dispersivity* alpha y (ft)
 Vertical Dispersivity* alpha z (ft)
 or
 Estimated Plume Length Lp (ft)

3. ADSORPTION

Retardation Factor* R (-)
 or
 Soil Bulk Density rho (kg/l)
 Partition Coefficient Koc (L/kg)
 Fraction Organic Carbon foc (-)

4. BIODEGRADATION

1st Order Decay Coeff* lambda (per yr)
 or
 Solute Half-Life t-half (year)
or Instantaneous Reaction Model

Delta Oxygen* DO (mg/L)
 Delta Nitrate* NO3 (mg/L)
 Observed Ferrous Iron* Fe2+ (mg/L)
 Delta Sulfate* SO4 (mg/L)
 Observed Methane* CH4 (mg/L)

5. GENERAL

Modeled Area Length* (ft)
 Modeled Area Width* (ft)
 Simulation Time* (yr)

6. SOURCE DATA

Source Thickness In Sat. Zone* (ft)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Width* (ft)	Conc. (mg/L)*
0	0
80	7.74
120	22.7
80	7.74
0	0

Source Decay [see Help]:
 Source Half-life* (yr)
 Soluble Mass
 In NAPL Soil (Kg)

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells. If No Data Leave Blank or Enter '0'

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	22.7	14.8		.078							
Dist. from Source (ft)	0	75	150	225	300	375	450	525	600	675	750

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE **RUN ARRAY**

View Output **View Output**

Help **Recalculate This Sheet**

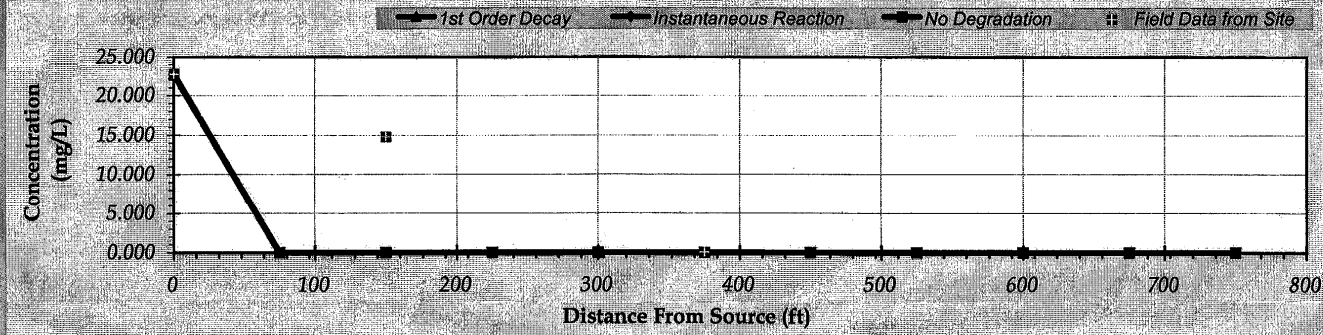
Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

Figure 4a: BIOSCREEN Input Screen

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)											
	0	75	150	225	300	375	450	525	600	675	750	
No Degradation	22.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	22.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	22.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	22.700		14.800			0.078						



Calculate Animation

Time:
1 Years

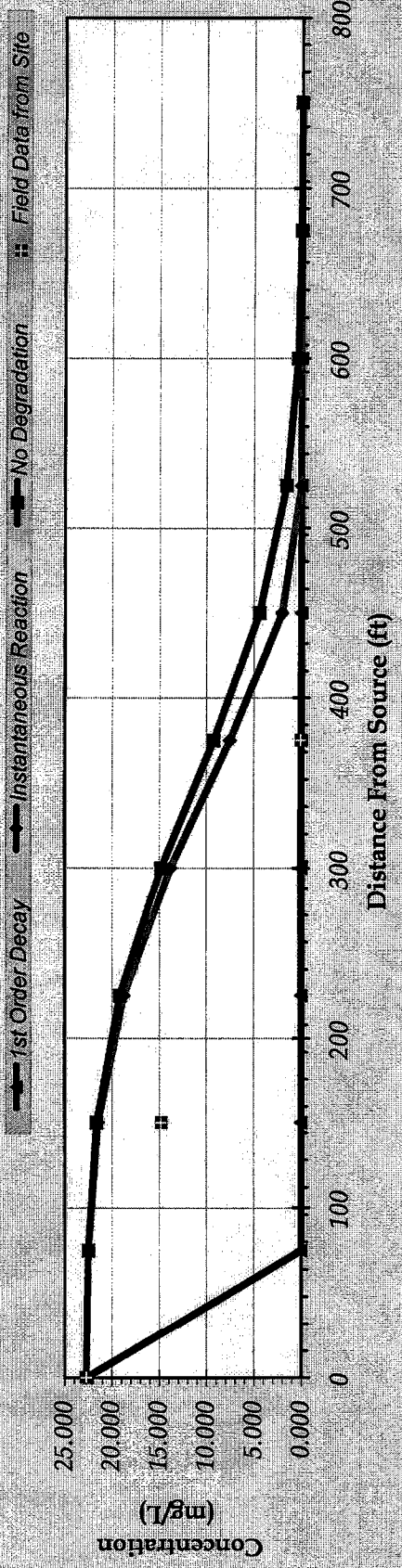
Return to Input

Recalculate This Sheet

Figure 4b: Centerline Output

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	22.700	22.502	21.612	19.165	14.770	9.242	4.428	1.558	0.391	0.069	0.008
1st Order Decay	22.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	22.700	22.477	21.492	18.765	13.814	7.537	2.040	0.000	0.000	0.000	0.000
Field Data from Site	22.700		14.800			0.078					



Time:

Figure 4c: Centerline Output

BIOSCREEN Natural Attenuation Decision Support System
 Air Force Center for Environmental Excellence
 Version 1.3

Highway 11 Grocery
Naphthalene
 Run Name

Data Input Instructions:
 1. Enter value directly...or
 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
 Variable* Data used directly in model.
 Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY
 Seepage Velocity* Vs **13.0** (ft/yr)
 or
 Hydraulic Conductivity K (cm/sec)
 Hydraulic Gradient i (ft/ft)
 Porosity n **0.35** (-)

2. DISPERSION
 Longitudinal Dispersivity* alpha x **19.5** (ft)
 Transverse Dispersivity* alpha y **2.0** (ft)
 Vertical Dispersivity* alpha z **0.0** (ft)
 or
 Estimated Plume Length Lp **600** (ft)

3. ADSORPTION
 Retardation Factor* R **7.4** (-)
 or
 Soil Bulk Density rho **1.45** (kg/l)
 Partition Coefficient Koc **1543** (L/kg)
 Fraction Organic Carbon foc **9.99E-04** (-)

4. BIODEGRADATION
 1st Order Decay Coeff* lambda **9.8E-1** (per yr)
 or
 Solute Half-Life t-half **0.71** (year)
 or **Instantaneous Reaction Model**
 Delta Oxygen* DO **5.8** (mg/L)
 Delta Nitrate* NO3 **0.41** (mg/L)
 Observed Ferrous Iron* Fe2+ **24.4** (mg/L)
 Delta Sulfate* SO4 **0** (mg/L)
 Observed Methane* CH4 **0** (mg/L)

5. GENERAL
 Modeled Area Length* **750** (ft)
 Modeled Area Width* **280** (ft)
 Simulation Time* **1** (yr)

6. SOURCE DATA
 Source Thickness In Sat. Zone* **10** (ft)
 Source Zones:

Width* (ft)	Conc. (mg/L)*
0	0
80	0.499
120	1.06
80	0.499
0	0

 Source Decay (see Help)
 Source Half-life* **Infinite** (yr)
 Soluble Mass **Infinite** (Kg)
 In NAPL, Soil **Infinite** (Kg)

7. FIELD DATA FOR COMPARISON
 Concentration (mg/L) **1.06** **.5** **.005**
 Dist. from Source (ft) **0** **75** **150** **225** **300** **375** **450** **525** **600** **675** **750**

8. CHOOSE TYPE OF OUTPUT TO SEE:
RUN CENTERLINE **RUN ARRAY**
View Output **View Output**

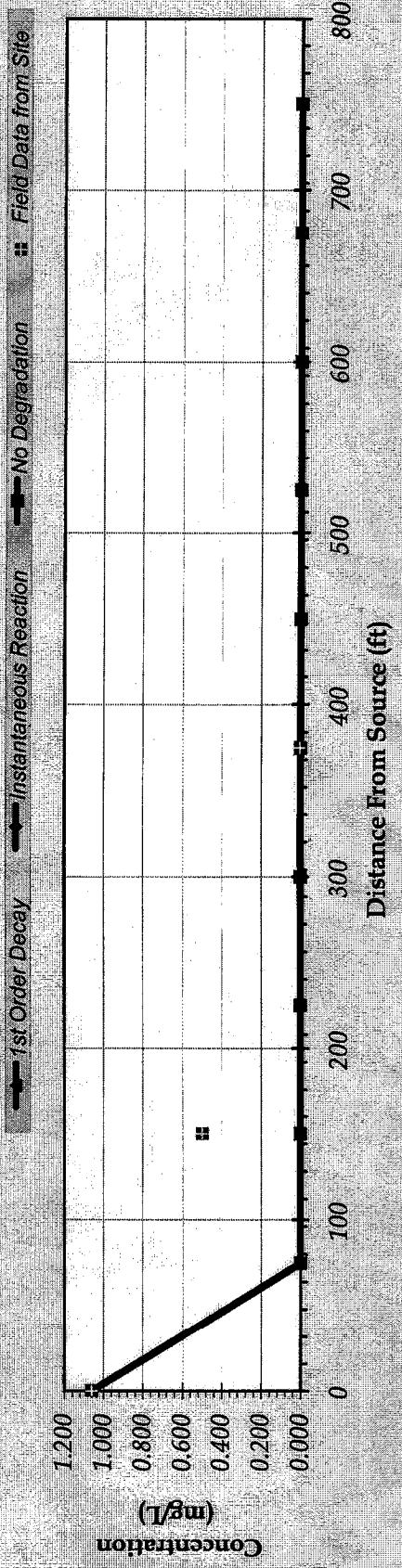
Help **Recalculate This Sheet**
Paste Example Dataset
Restore Formulas for Vs, Dispersivities, R, lambda, other

Vertical Plane Source: Look at Plume Cross Section and Input Concentrations & Widths for Zones 1, 2, and 3.
View of Plume Looking Down
Observed Centerline Concentrations at Monitoring Wells
 If No Data Leave Blank or Enter "0"

Figure 5a: BIOSCREEN Input Screen

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	1.060		0.500		0.005						



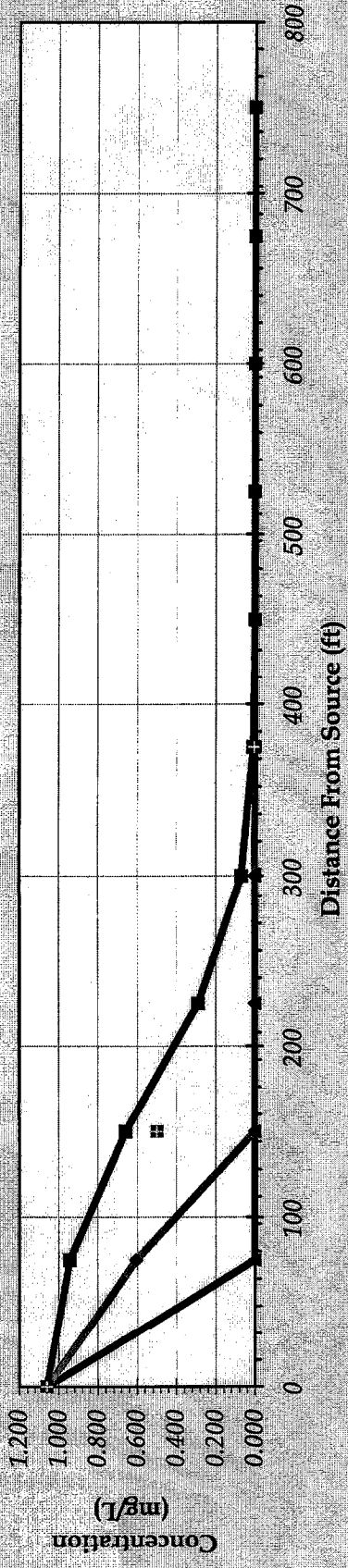
Time:

Figure 5b: Centerline Output

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	75	150	225	300	375	450	525	600	675	750
No Degradation	1.060	0.942	0.658	0.289	0.069	0.008	0.000	0.000	0.000	0.000	0.000
1st Order Decay	1.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	1.060	0.604	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	1.060		0.500			0.005					

1st Order Decay
 Instantaneous Reaction
 No Degradation
 Field Data from Site



Time:

Figure 5c: Centerline Output

**MATERIAL
MANIFEST**

JBR Environmental Services
P. O. Box 4098
Spartanburg, SC 29305

Manifest Document No.

D-0700514

Page

1 of 1

Emergency Phone Number: (864) 583-2717

Job No.

D-06720574

GENERATOR INFORMATION

Name: SEI		US EPA ID No.
Street Address 13522 Hwy 11 Salem, SC	Mailing Address 8021 McNaughton Dr. Ste. 9 Columbia, SC 29223	Phone No. 803 788-2535
		Contact Bob Bolton

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/N A ID No.	Packing Group	Containers		Total Quantity	Unit Wt./Vol.
						Qty	Type		
a.		Non-regulated Solid non	W/A	N/A	N/A	15	DM	12	
b.		Non-regulated Liquid non	N/A	N/A	N/A	1	DM		
c.									

ADDITIONAL INFORMATION

a.	Soil	ERG No.	JBR Profile Code	Facility Use
b.	Water		SE-0100250	Approved for Disposal
c.				

GENERATORS CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name Steven M Smith	Signature <i>St M Smith</i>	Mo./Day/Yr. 7-23-01
--------------------------------------	--------------------------------	------------------------

TRANSPORTER INFORMATION

Transporter JBR Environmental Services	I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.	
Address 210 Alice Street Spartanburg, SC 29303	Signature <i>Germaine Wiebe</i>	Shipment Date 7/23/01
Transporter or EPA ID No. SCR000004358	Unit No.	I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.
Phone 864-583-2717		Signature <i>Germaine Wiebe</i>
		Delivery Date 7/23/01

FACILITY INFORMATION

Facility JBR Environmental Services	I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.	
Address 210 Alice Street Spartanburg, SC 29303	Signature <i>Mark Schoelkopf</i>	Receipt Date 7/23/01
Facility or EPA ID No. SCR000004358	Discrepancies	Routing Codes
Phone 864-583-2717		Handling Manifest
Contact Rex Russell		

Please print (do not type) in black ink on a plain white background.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Manifest Document No. **GK4000**
 2. Page 1 of **08-24-01**

3. Generator's Name and Mailing Address
SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR, SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name
SEI ENVIRONMENTAL, INC 6. US EPA ID Number

A. Transporter's Phone
803-788-2535

7. Transporter 2 Company Name 8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

C. Facility's Phone
800-800-6840

11. Waste Shipping Name and Description

12. Containers 13. Total 14. Unit

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
CROFT'S BP

No. Type Quantity Wt/Vol
01DR

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
PANTRY #558

01DR

c. NON HAZARDOUS PETROLEUM CONTAMINATED SOIL
Frank's Car Wash

01DR

d. NON HAZARDOUS PETROLEUM CONTAMINATED SOIL
HWY 11 GROCERY

01DR

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year
BOB BOXTON *Bob Boxtun* **10 12 01**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

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
S. Collett *S. Collett* **8 24 01**

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 1 Drum
Hwy 11 Grocery

Contaminant NonHazardous Petroleum
Contaminated Soil

This is to certify the above soil has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. Jolley

Date 08/24/01

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

GK4013

09-04-01

4. Generator's Phone ()

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

5. Transporter 1 Company Name

6. US EPA ID Number

A. Transporter's Phone

7. SEI ENVIRONMENTAL, INC

8. US EPA ID Number

B. Transporter's Phone 803-788-2535

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

11. Waste Shipping Name and Description

80028006840

13. Total Quantity

14. Unit Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
WACO PROPERTY GREENVILLE, SC

01DR

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
AMOCO STATION SALEM, SC

01DR

d. NON HAZARDOUS PETROLEUM CONTAMINATED SPEED DRY
PANTRY 849 COLUMBIA, SC

01DR

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons _____ 1 Drum _____

Amoco Station
Salem, SC

Contaminant NonHazardous Petroleum
Contaminanted Water

This is to certify the above ~~soil~~^{water} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. Soley

Date 09/05/01



Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800.377.2826
803.788.2535
Fax 788.2399

29-Tech

RECEIVED

JAN 11 2002

Underground
Tank Program

January 8, 2002

Mr. Konstantine Akhvlediani, Hydrogeologist
SCDHEC - UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

RE: Tier II Assessment Report Addendum
Highway 11 Grocery
UST Permit #03439
Oconee County

Dear Mr. Akhvlediani:

Attached is the Tier II Assessment Report Addendum for Highway 11 Grocery. I have included the previously submitted boom maintenance invoice as part of the current assessment invoice as you requested. Should you have any questions or require additional information, please contact me at 788-2535.

Sincerely,
SEI Environmental, Inc.

Robert G. Bolton, Jr.
Robert G. Bolton, Jr.
Project Manager

Attachment

cc: Mr. Steve Smith, Highway 11 Grocery



TIER II ASSESSMENT REPORT ADDENDUM

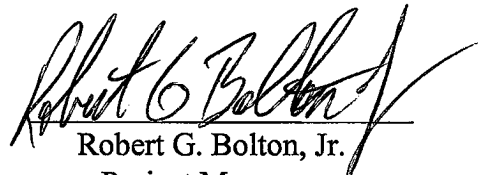
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
Oconee County
UST Permit #03439

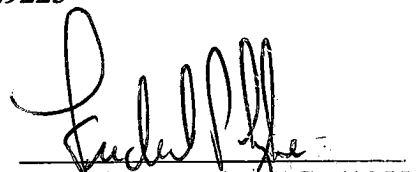
PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
180 Shallowford Road
Salem, South Carolina

PREPARED BY:

SEI Environmental, Inc.
3021 McNaughton Drive, Suite 9
Columbia, South Carolina 29223
(803) 788-2535


Robert G. Bolton, Jr.
Project Manager


Frederick P. Lyke, P.G. #1055

January 8, 2002

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1.0 INTRODUCTION

Mr. Steve Smith contracted SEI Environmental, Inc. (SEI) to conduct a Tier II Assessment Addendum at the Highway 11 Grocery facility located at 13527 South Carolina Highway 11 near Salem, South Carolina. A site location map is presented as Figure 1. The assessment activities were approved by SCDHEC in correspondence to Mr. Smith dated November 16, 2001. A site location map is presented as Figure 1.

2.0 METHODOLOGY

2.1 Monitor Well Installation

Environmental Construction Services (ECS) personnel, using a truck mounted CME-75 drill rig, installed one (1) Type II groundwater monitor well (identified as MW-14) and two (2) Type III groundwater monitor wells (identified as DMW-2 and DMW-3) on December 4-6, 2001. ECS personnel, using a decontaminated hand auger, installed one (1) Type II groundwater monitor well (identified as MW-13) on December 4, 2001. Monitor Wells MW-13 and MW-14 were installed to approximate depths of 12 feet below ground surface (bgs) and 10 feet bgs, respectively. Monitor Wells DMW-2 and DMW-3 were installed to approximate depth of 75 feet bgs and 85 feet bgs, respectively. Specifically, Monitor Well MW-13 was installed in the hydraulically lateral direction from Monitor Well MW-1. Monitor Well MW-14 was installed adjacent to Fall Creek in the hydraulically down-gradient direction from Monitor Well MW-1. Monitor Well DMW-2 was installed adjacent to Monitor Well MW-8, and Monitor Well DMW-3 was installed adjacent to Monitor Wells MW-1 and DMW-1. Soil samples were not obtained for laboratory analysis during the installation of the monitor wells; however, soil samples were collected for lithologic descriptions during all monitor well installations. Monitor well locations are depicted in Figure 2.

The monitor wells are constructed of 2-inch diameter, Schedule 40, flush threaded PVC well casing with factory slotted (0.01-inch opening) Schedule 40 PVC well screen attached. Each Type II monitor well is constructed with the top of the well screen above the water table to allow for detection of potential free-phase liquid hydrocarbon. A uniformly graded silica filter pack was installed in the annular space from total depth to approximately 1.0 foot above the top of the screen and followed by approximately 0.5 feet of bentonite pellets, which were hydrated. The remainder of the boring was grouted to land surface. Monitor Wells MW-14, DMW-2, and DMW-3 were completed with a water tight, locking PVC cap, protected by a flush finished concrete pad with a 9-inch diameter steel, traffic rated manhole with a bolt down cover. Monitor Well MW-13 was completed with a water tight, locking PVC cap, protected by a three foot above-grade steel manway with a lockable lid. Following installations, each monitor well was developed with a clean, centrifugal pump to remove any fine materials that may impede the flow of groundwater into the well. Monitor Wells DMW-2 and DMW-3 were similarly constructed with the exception of a six-inch diameter outer casing set on top of rock at a depth of 45 feet bgs and 17 feet bgs, respectively. Air rotary techniques were used to drill through the outer casing and complete DMW-2 (from approximately 45 to 75 feet bgs) the following day. Air rotary techniques were used to drill through the outer casing of DMW-3 and complete it from approximately 17 to 85 feet bgs the following day. Monitor well construction details and lithologic descriptions are presented in Appendix A.

2.2 Site Hydrogeology

During the December 11, 2001, gauging event, approximately 0.25 feet and 0.54 feet of liquid phase hydrocarbons (LPH) were detected at Monitor Wells MW-1 and MW-8, respectively. Groundwater flow direction is toward the east and northeast with a hydraulic gradient of 0.0365 feet per foot as measured between Monitor Wells MW-1 and MW-14. Groundwater measurements are summarized in Table I, and a groundwater elevation contour map is depicted in Figure 3.

2.3 Soil Organic Vapor Measurements

Soil organic vapor concentration measurements were performed on saturated soil samples obtained during monitor well installations with a Foxboro™ Model 128 OVA-FID. The OVA-FID was compared with a known standard (i.e. methane at 96 ppm) each day before it was used. Each soil sample was placed in a new, resealable, plastic bag and allowed to volatilize for a minimum of fifteen minutes. The OVA-FID probe was then inserted into the headspace of the bag, and the highest organic vapor reading observed was recorded for each sample. Organic vapor concentrations are recorded on the lithologic and monitor well construction logs.

2.4 Groundwater Sampling and Analysis

During the current assessment activities, SEI personnel obtained groundwater samples from Monitor Wells MW-1 through MW-14, DMW-1, DMW-2, and DMW-3. In addition, a groundwater sample was collected from the potable water well (identified as WW-1) located at the subject property. A surface water sample was collected from Fall Creek (identified as CK-1) located hydraulically down-gradient from the site. A new, disposable, polyethylene bailer was used for the collection of the water samples from the monitor wells. Each sample was obtained after pH and temperature values had equilibrated unless petroleum odor was emanating from the well. If petroleum odors were observed in the monitor well, the groundwater sample was obtained after three well volumes were purged. All purge water was drummed for proper disposal at a permitted treatment facility. Field measurements are presented in Appendix B. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to TestAmerica Inc. in Nashville, Tennessee for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. The samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B; and lead by EPA

method 6010B. In addition, the samples were analyzed for nitrate by EPA method 353.2; sulfate by EPA method 9056; and ferrous iron by EPA method 3500D. Only Monitor Wells MW-1, MW-6, MW-8, DMW-1, and DMW-2 were analyzed for methane by EPA method RSK175M, as these wells are located at the source and hydraulically down-gradient from the source area.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Results

Groundwater analytical results for the samples collected during the current assessment activities detected the presence of benzene concentrations at all sample locations except MW-3, MW-5, MW-9, MW-12, MW-13, and WW-1. Toluene concentrations were detected at all sample locations except MW-5, MW-9, MW-12, MW-13, and WW-1. Ethylbenzene concentrations were detected at all sample locations except MW-2, MW-3, MW-5, MW-9, MW-12, MW-13, DMW-2, and WW-1. Xylenes concentrations were detected at all sample locations except MW-3, MW-5, MW-9, MW-12, MW-13, DMW-2, and WW-1. MTBE concentrations were detected at sample locations except MW-2, MW-3, MW-5, MW-7, MW-9, MW-13, and WW-1. Naphthalene concentrations were detected at Samples MW-4, MW-8, MW-10, MW-11, MW-14, DMW-1, DMW-3, and CK-1. It is probable that naphthalene concentrations exist at Samples MW-1 and MW-6, but a high dilution factor caused the results to be below detection limits. Methane concentrations were not detected at any sampled locations. Lead concentrations were detected at all sample locations except DMW-1, CK-1, and WW-1. Ferrous iron concentrations were detected at all sample locations except MW-2, MW-5, MW-7, and WW-1. Nitrate concentrations were detected at all sample locations except MW-1, MW-10, MW-11, MW-14, and DMW-1. Sulfate concentrations were detected at all sample locations except MW-2, MW-3, MW-5 through MW-8, MW-11, and WW-1.

Benzene concentrations were detected greater than its RBSL of 5 µg/l at Samples MW-1, MW-2, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW-14, DMW-1, DMW-3, and CK-1.

Toluene concentrations were detected greater than its RBSL of 1000 µg/l at Samples MW-1, MW-4, MW-6, MW-8, MW-10, MW-14, DMW-1, and DMW-2. Ethylbenzene concentrations were detected greater than its RBSL of 700 µg/l at Samples MW-1, MW-4, MW-6, MW-8, MW-10, MW-14, and DMW-3. Xylenes concentrations were detected greater than its RBSL of 10000 µg/l at Samples MW-1, MW-6, MW-8, MW-14, and DMW-3. MTBE concentrations were detected greater than its RBSL of 40 µg/l at Samples MW-1, MW-4, MW-6, MW-8, MW-10, MW-11, MW-14, DMW-1, and DMW-3. Naphthalene concentrations were detected greater than its RBSL of 25 µg/l at Samples MW-4, MW-8, MW-10, MW-11, MW-14, DMW-1, and DMW-3. It is probable that naphthalene concentrations exist greater than its RBSL at Samples MW-1 and MW-6, but a high dilution factor caused the results to be below detection limits. Lead concentrations were detected greater than its RBSL of 15 µg/l at all sample locations except MW-7, MW-9, DMW-1, DMW-3, CK-1, and WW-1. Groundwater analytical results are presented in Table II, and groundwater concentrations are depicted in Figures 4 through 6. Historical groundwater analytical results are presented in Table III. Laboratory analyses and chain-of-custody are presented in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- Groundwater flow at the site is in a northeastern direction with a hydraulic gradient of 0.0365 feet per foot as measured between Monitor Wells MW-1 and MW-14.
- Approximately 0.25 feet and 0.54 feet of liquid phase hydrocarbons were detected at Monitor Wells MW-1 and MW-8 during the December 11, 2001, gauging event.
- The onsite potable water well, identified as WW-1, was sampled as part of the current assessment activities. Laboratory analytical results failed to detect petroleum hydrocarbons in this well.

- Surface water samples were collected from Fall Creek (identified as CK-1) located hydraulically down-gradient from the site. Laboratory analytical results detected BTEX, MTBE, and naphthalene concentrations at Sample CK-1.
- SEI personnel continue to monitor the absorbent booms that have been placed in the interception trench and on Fall Creek directly down-gradient from the site. These booms are replaced on a monthly basis or as needed to prevent the migration of a petroleum sheen from traveling down Fall Creek.
- Total BTEX concentrations have increased at Samples MW-1, MW-2, MW-7, MW-8, MW-10, MW-11, and DMW-1 since the previous sampling activities. However, total BTEX concentrations have decreased or remained below detection limits at the remaining sample locations for the same period. MTBE concentrations have increased at Samples MW-1, MW-4, MW-8, MW-11, MW-12, and DMW-1 since the previous sampling activities. However, MTBE concentrations have decreased or remained below detection limits at the remaining sample locations for the same period. Naphthalene concentrations have increased at Samples MW-8, MW-10, MW-11, DMW-1, and CK-1 since the previous sampling activities. However, naphthalene concentrations have decreased or remained below detection limits at the remaining sample locations for the same period. Comparisons for naphthalene could not be made for Monitor Wells MW-1, MW-4, and MW-6 due to high dilution factors at these locations.
- Petroleum hydrocarbons in the groundwater have not been vertically delineated with the installation of Monitor Well DMW-3 in the source area.
- Petroleum hydrocarbons in the groundwater have been vertically delineated in the hydraulically down-gradient area with the installation of Monitor Well DMW-2.
- Petroleum hydrocarbons in the groundwater have been horizontally delineated in the direction of Monitor Well MW-4 with the installation of Monitor Well MW-13.

Analytical results for Monitor Well DMW-3 indicate that vertical delineation has not occurred with the installation of this well in the source area. Based on groundwater elevation data, there

exists a downward hydraulic gradient between Monitor Well MW-1 and DMW-3. SEI recommends the installation of a third telescoping well in the source area. Construction of this well would include the installation of an outer casing to a depth of 90 feet to 100 feet with a total well depth of 125 feet to 150 feet.

5.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the current UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

REFERENCES

Aucott, Walter R. and Gary K. Speiran, 1985, *Geohydrology and Water Quality of the Coastal Plain Aquifers of South Carolina*, Proceedings of Symposium on Groundwater and Environmental Hydrogeology in South Carolina October 1 & 2, 1985. SCDHEC 153p.

Freeze, R. Allen and J. A. Cherry, 1979, *Ground Water*, Prentice-Hall, Englewood Cliffs, New Jersey.

SCDHEC, May 15, 2001, *Risk-Based Corrective Action for Petroleum Releases*, Columbia, South Carolina.

SEI Environmental, Inc., September 25, 2001, Tier II Assessment Report – Highway 11 Grocery, Columbia, South Carolina.

TABLE I
Groundwater Elevation Data
Highway 11 Grocery / Salem, South Carolina

Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Water Table Elevation (feet)
MW-1	12/11/01	103.38	26.05*	0.25	30	77.33
MW-2	12/11/01	104.85	27.84	0	35	77.01
MW-3	12/11/01	104.89	26.57	0	30	78.32
MW-4	12/11/01	99.90	24.74	0	35	75.16
MW-5	12/11/01	106.06	30.58	0	35	75.48
MW-6	12/11/01	100.00	23.37	0	35	76.63
MW-7	12/11/01	103.66	29.97	0	40	73.69
MW-8	12/11/01	86.51	21.90*	0.54	30	64.61
MW-9	12/11/01	58.39	2.06	0	12	56.33
MW-10	12/11/01	93.78	21.45	0	24	72.33
MW-11	12/11/01	83.20	18.20	0	23	65.00
MW-12	12/11/01	58.69	3.07	0	12	55.62
MW-13	12/11/01	77.72	6.08	0	12	71.64
MW-14	12/11/01	59.19	2.39	0	10	56.80
DMW-1	12/11/01	103.27	26.35	0	45	76.92
DMW-2	12/11/01	86.21	18.65	0	75	67.56
DMW-3	12/11/01	103.36	43.43	0	85	59.93

Top of casing elevations are based on an assumed elevation.

* Adjusted depth to water = depth to water – [(LPH thickness) x 0.78]

TABLE II
Groundwater Analytical Results
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-1 (µg/l)	MW-2 (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)
Free Product Thickness	NA	0.25'	None	None	None	None	None	None	0.54'	None	None
Benzene	5	23100	28.4	<1.0	1730	<1.0	6950	62.9	21100	<1.0	2540
Toluene	1000	58800	18.6	1.9	3840	<1.0	27300	74.5	57600	<1.0	7130
Ethylbenzene	700	5050	<1.0	<1.0	865	<1.0	3300	1.8	4870	<1.0	966
Xylenes	10000	26000	16.1	<1.0	4600	<1.0	17200	21.4	25400	<1.0	4440
Total BTEX	NA	112950	<64.1	<4.9	11035	<4.0	54750	160.6	108970	<4.0	15076
MTBE	40	118000	<5.0	<5.0	925	<5.0	7350	<5.0	49000	<5.0	3210
Naphthalene	25	<2500	<5.0	<5.0	250	<5.0	<2500	<5.0	980	<5.0	199
Methane	NA	<26.0	NS	NS	NS	NS	<26.0	NS	<26.0	NS	NS
Lead	15	267	69.0	251	539	1070	378	15.0	22.0	8.00	87.0
Ferrous Iron	NA	6350	<100	2880	1270	<100	11700	<100	3670	604	2070
Nitrate	NA	<0.100*	0.630*	0.440*	0.220*	0.330*	0.250*	0.710*	3.00*	0.130*	<0.100*
Sulfate	NA	49.2*	<1.00*	<1.00*	1.50*	<1.00*	<1.00*	<1.00*	<1.00*	1.95*	1.17*

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*denotes results in mg/l

TABLE II (continued)
Groundwater Analytical Results
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)	MW-13 (µg/l)	MW-14 (µg/l)	DMW-1 (µg/l)	DMW-2 (µg/l)	DMW-3 (µg/l)	CK-1 (µg/l)	WW-1 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	NA	NA
Benzene	5	1120	<1.0	<1.0	4220	3530	1.8	5620	11.3	<1.0
Toluene	1000	32.0	<1.0	<1.0	13700	7000	1.1	29600	18.6	<1.0
Ethylbenzene	700	178	<1.0	<1.0	2180	625	<1.0	3380	4.7	<1.0
Xylenes	10000	970	<1.0	<1.0	11400	3420	<1.0	14300	25.6	<1.0
Total BTEX	NA	2300.0	<4.0	<4.0	31500	14575	<4.9	52900	60.2	<4.0
MTBE	40	272	9.3	<5.0	9560	16400	30.7	8410	17.7	<5.0
Naphthalene	25	70.0	<5.0	<5.0	453	132	<5.0	795	5.9	<5.0
Methane	NA	NS	NS	NS	NS	<26.0	<26.0	NS	NS	NS
Lead	15	89.0	52.0	114	43.0	<3.00	499	11.0	<3.00	<3.00
Ferrous Iron	NA	12300	674	135	21400	1120	42200	328	166	<100
Nitrate	NA	<0.100*	0.170*	0.390*	<0.100*	<0.100*	0.420*	1.75*	0.110*	0.250*
Sulfate	NA	<1.00*	2.90*	2.57*	1.20*	1.45*	16.1*	30.2*	1.43*	<1.00*

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*denotes results in mg/l

TABLE III
Historical Groundwater Analytical Results, dated July & August 2001
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-1* (µg/l)	MW-2* (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	None
Benzene	5	4800	15.1	<2.0	1500	<2.0	5700	18.3	17100
Toluene	1000	7300	61.7	4.1	7460	<2.0	25800	25.0	34400
Ethylbenzene	700	3430	9.61	<2.0	1400	<2.0	4760	2.1	3060
Xylenes	10000	9800	52.0	8.2	7740	<2.0	22700	17.5	14800
Total BTEX	NA	25330	138.41	<16.3	18100	<8.0	58960	62.9	69360
MTBE	40	14000	45.2	<2.0	620	<2.0	11100	<2.0	47000
Naphthalene	25	578	15.6	<5.0	<500	<5.0	1060	<5.0	500
EDB	0.05	<1.00	<1.00	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	10	<0.200	<0.200	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(b)fluoranthene	10	<0.200	<0.200	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(k)fluoranthene	10	<0.500	<0.500	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene	10	<2.00	<2.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibenzo(a,h)anthracene	10	<0.200	<0.200	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Methane	NA	NS	NS	<26.0	<26.0	<26.0	<26.0	<26.0	<26.0

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*Sampled March 30, 2001

TABLE III (continued)
Historical Groundwater Analytical Results, dated July & August 2001
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (mg/l)	MW-1* (mg/l)	MW-2* (mg/l)	MW-3 (mg/l)	MW-4 (mg/l)	MW-5 (mg/l)	MW-6 (mg/l)	MW-7 (mg/l)	MW-8 (mg/l)
Lead	0.015	0.0781	0.0117	0.5850	0.4320	0.6180	0.1560	0.0410	0.0350
Ferrous Iron	NA	NS	NS	5.09	0.690	0.517	24.4	0.150	10.2
Nitrate	NA	NS	NS	0.51	0.28	0.370	<0.10	0.860	0.190
Sulfate	NA	NS	NS	<1.00	2.06	<1.00	<1.00	<1.00	<1.00

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*Sampled March 30, 2001

TABLE III (continued)
Historical Groundwater Analytical Results, dated July & August 2001
Highway 11 Grocery / Salem, South Carolina

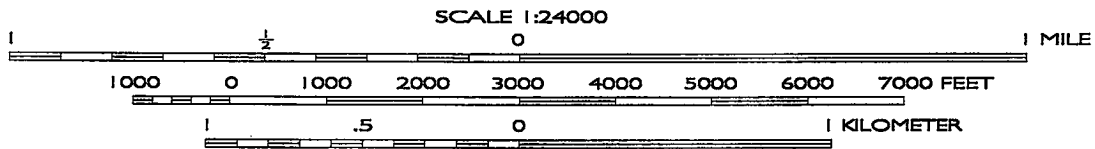
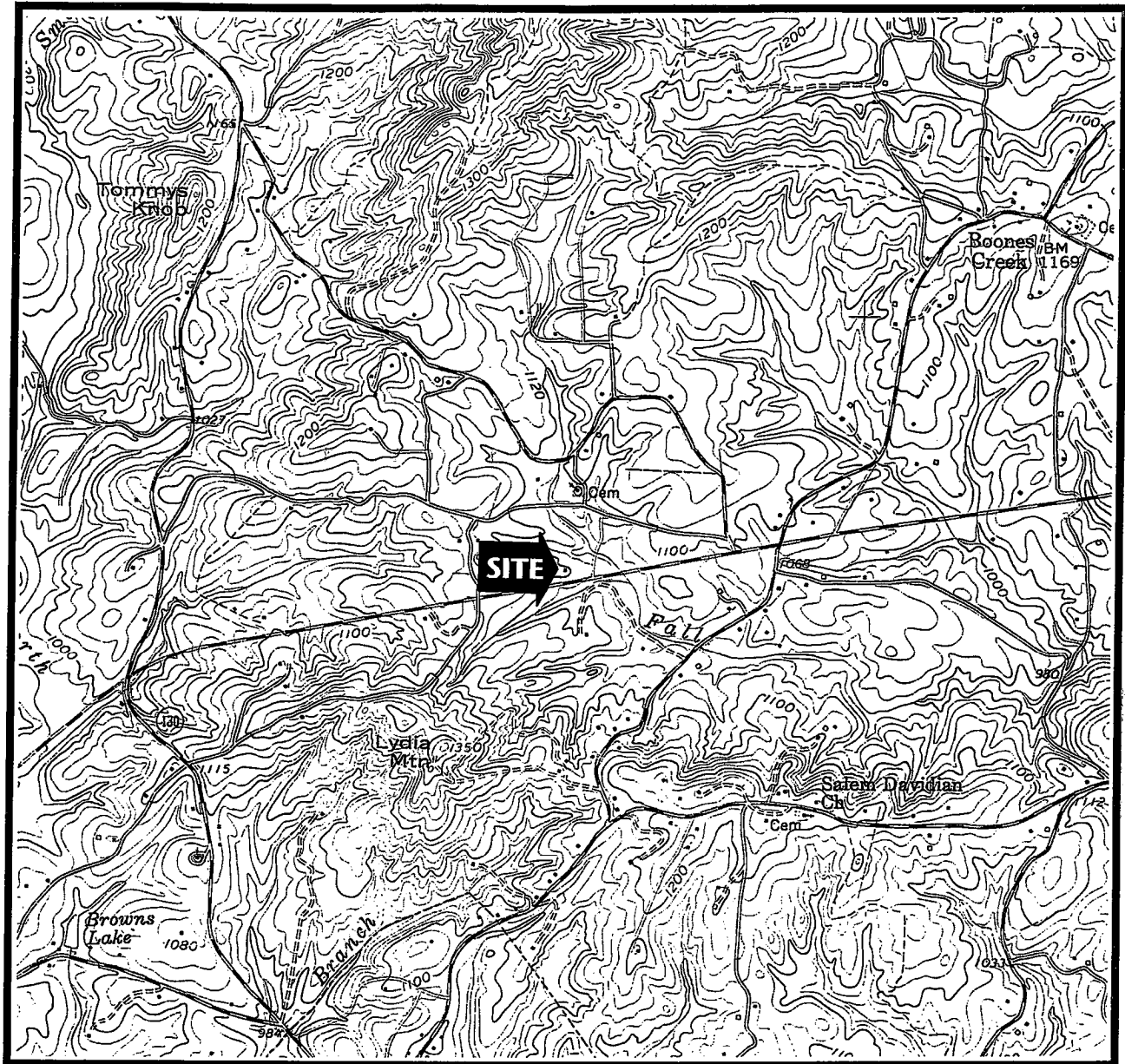
Chemical of Concern	RBSL (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)	DMW-1 (µg/l)	CK-1 (µg/l)	CK-2 (µg/l)	WW-1 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	NA	NA	NA
Benzene	5	<2.0	1970	398	<2.0	2060	53.4	<2.0	<2.0
Toluene	1000	<2.0	5500	2.3	<2.0	4320	78.0	<2.0	<2.0
Ethylbenzene	700	<2.0	350	4.4	<2.0	335	15.2	<2.0	<2.0
Xylenes	10000	<2.0	3150	170	<2.0	2180	77.8	<2.0	<2.0
Total BTEX	NA	<8.0	10970	574.7	<8.0	8895	224.4	<8.0	<8.0
MTBE	40	<2.0	3360	65.0	4.7	8750	46.7	<2.0	<2.0
Naphthalene	25	<5.0	109	<5.0	<5.0	80.6	<5.0	<5.0	<5.0
EDB	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(b)fluoranthene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Benzo(k)fluoranthene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibenzo(a,h)anthracene	10	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Methane	NA	715	<26.0	<26.0	<26.0	<26.0	331	<26.0	<26.0

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable

TABLE III (continued)
Historical Groundwater Analytical Results, dated July & August 2001
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (mg/l)	MW-9 (mg/l)	MW-10 (mg/l)	MW-11 (mg/l)	MW-12 (mg/l)	DMW-1 (mg/l)	CK-1 (mg/l)	CK-2 (mg/l)	WW-1 (mg/l)
Lead	0.015	0.617	0.9770	0.324	0.093	<0.0030	<0.0030	<0.0030	<0.0030
Ferrous Iron	NA	5.370	8.53	6.880	4.430	0.136	0.247	0.716	<0.100
Nitrate	NA	0.24	<0.100	0.18	0.15	<0.10	0.26	0.73	0.310
Sulfate	NA	1.83	<1.00	1.58	2.66	1.35	1.28	2.35	<1.00

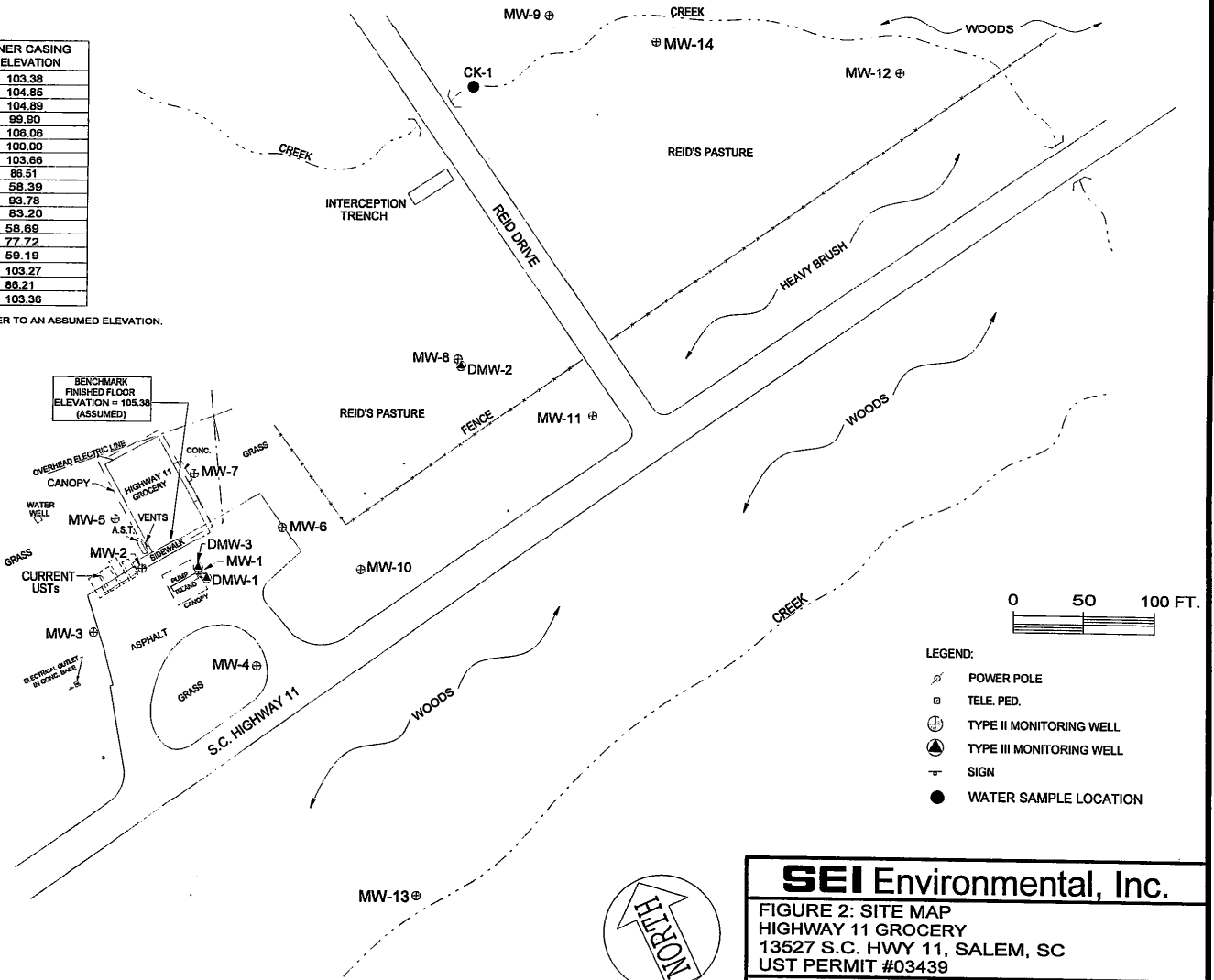
Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable



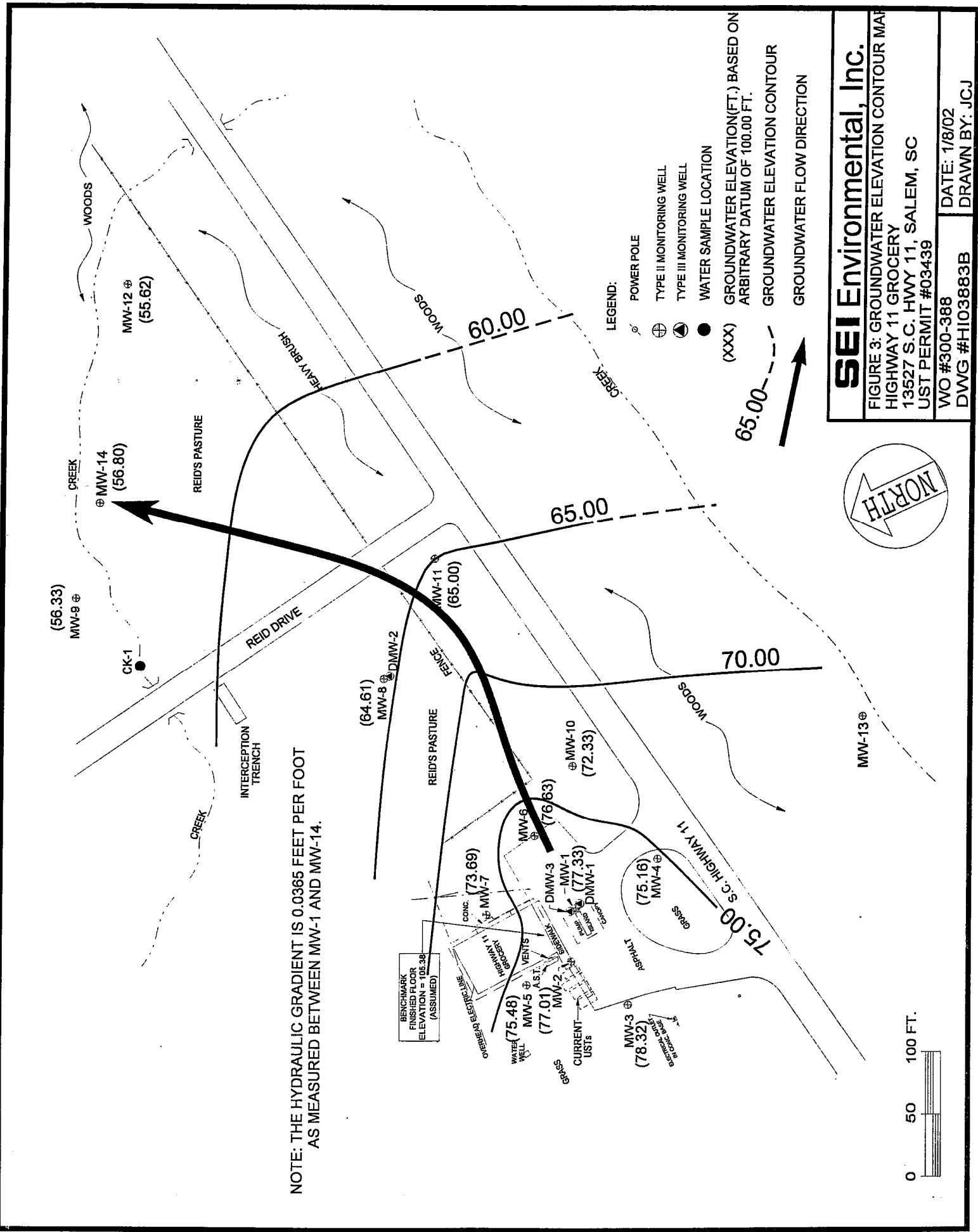
SEI Environmental, Inc.	
FIGURE 1: SITE LOCATION MAP HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: JCI

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	108.08
MW-6	100.00
MW-7	103.86
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.72
MW-14	59.19
DMW-1	103.27
DMW-2	88.21
DMW-3	103.36

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #300-388 DATE: 8/24/01
 DWG #HI0388F1 DRAWN BY: JCJ



NOTE: THE HYDRAULIC GRADIENT IS 0.0365 FEET PER FOOT AS MEASURED BETWEEN MW-1 AND MW-14.

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)

LEGEND:

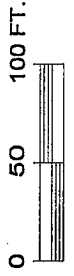
- ⊗ POWER POLE
- ⊕ TYPE II MONITORING WELL
- ⊙ TYPE III MONITORING WELL
- WATER SAMPLE LOCATION
- (XXX) GROUNDWATER ELEVATION (FT.) BASED ON ARBITRARY DATUM OF 100.00 FT.
- - - GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

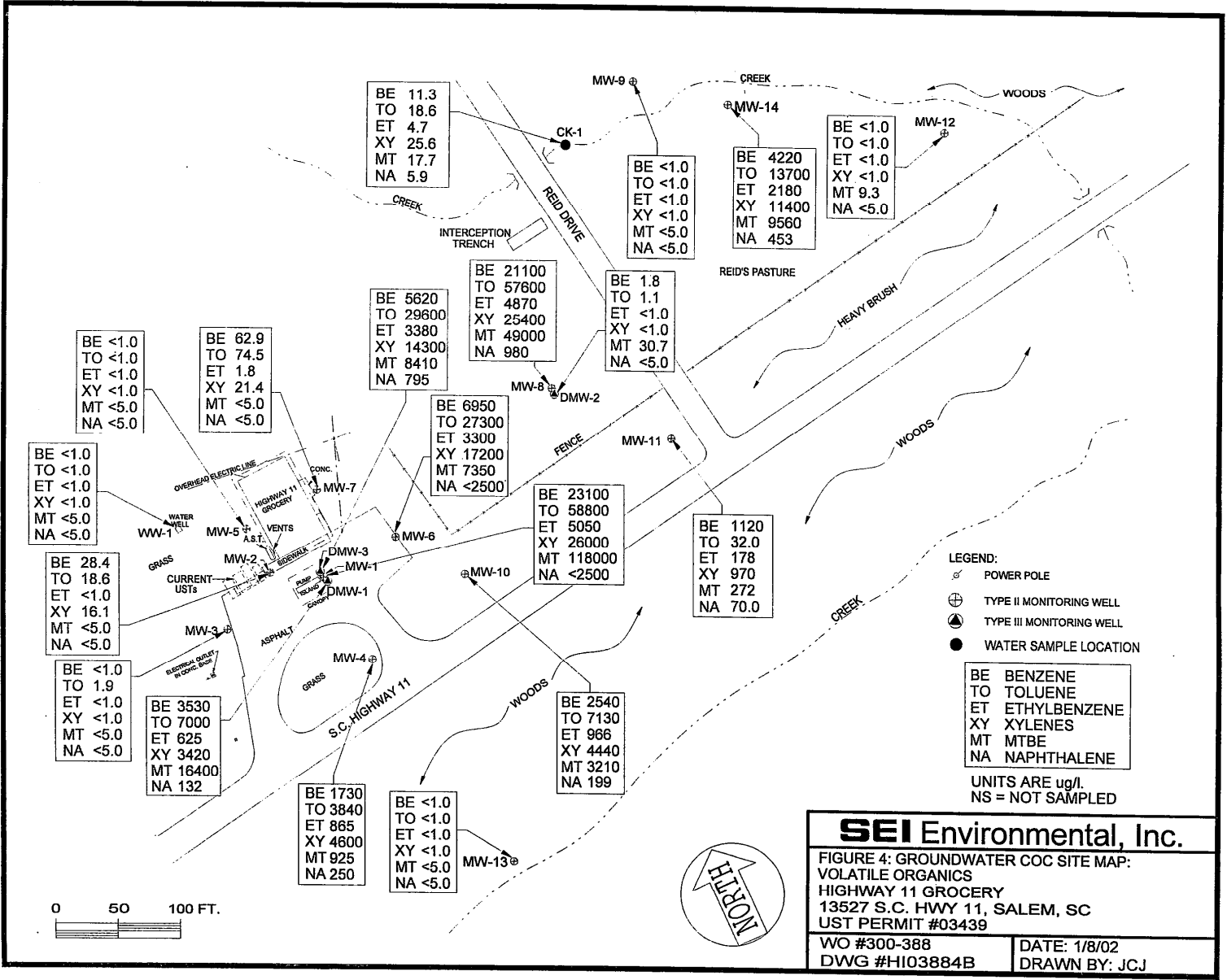
SEI Environmental, Inc.

FIGURE 3: GROUNDWATER ELEVATION CONTOUR MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

DATE: 1/8/02
DRAWN BY: JCJ

WO #300-388
DWG #HI03883B

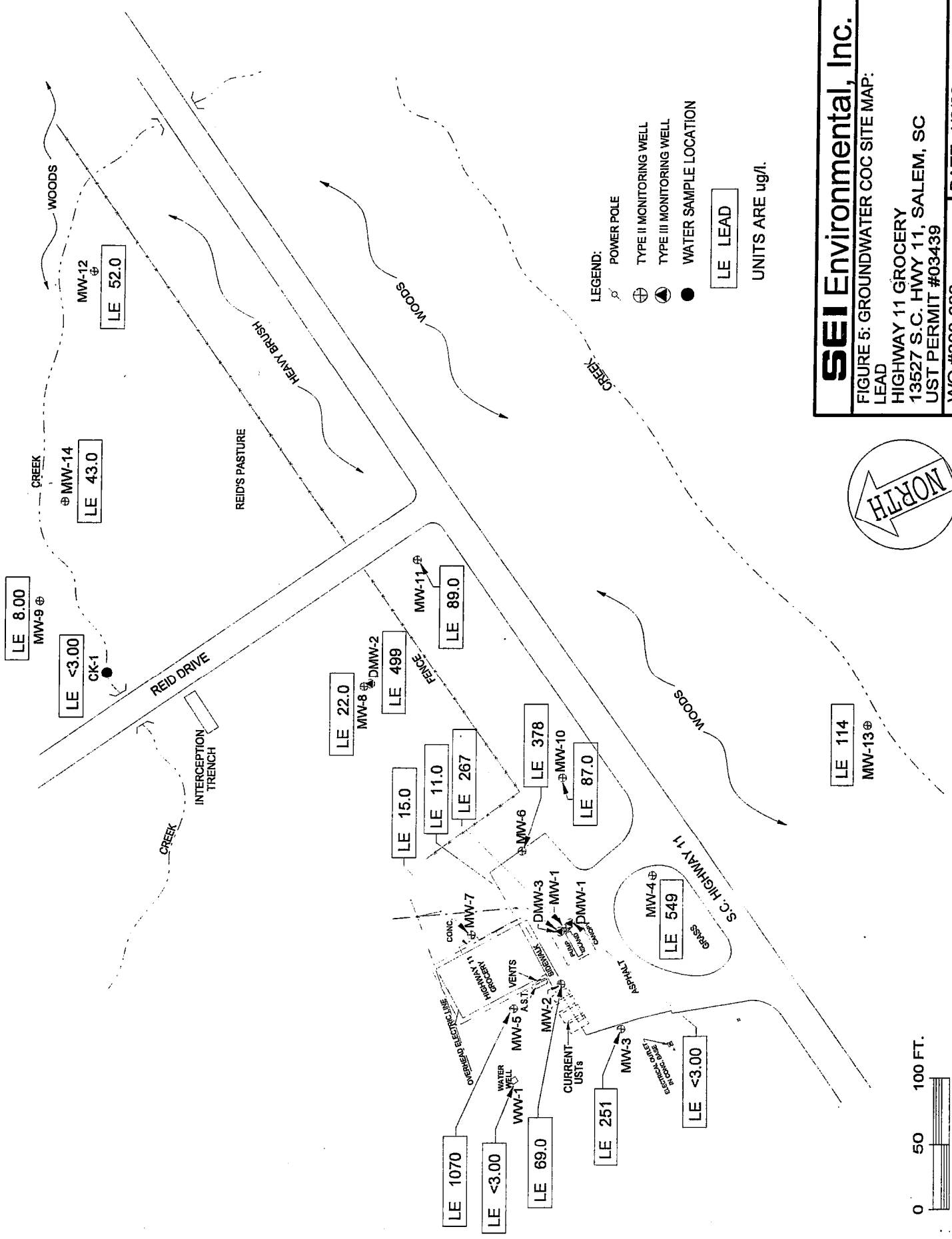




SEI Environmental, Inc.

FIGURE 4: GROUNDWATER COC SITE MAP:
VOLATILE ORGANICS
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

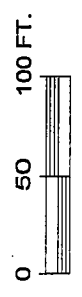
WO #300-388	DATE: 1/8/02
DWG #HI03884B	DRAWN BY: JCJ



- LEGEND:
- ⊕ POWER POLE
 - ⊕ TYPE II MONITORING WELL
 - ⊕ TYPE III MONITORING WELL
 - WATER SAMPLE LOCATION

LE LEAD

UNITS ARE ug/l.



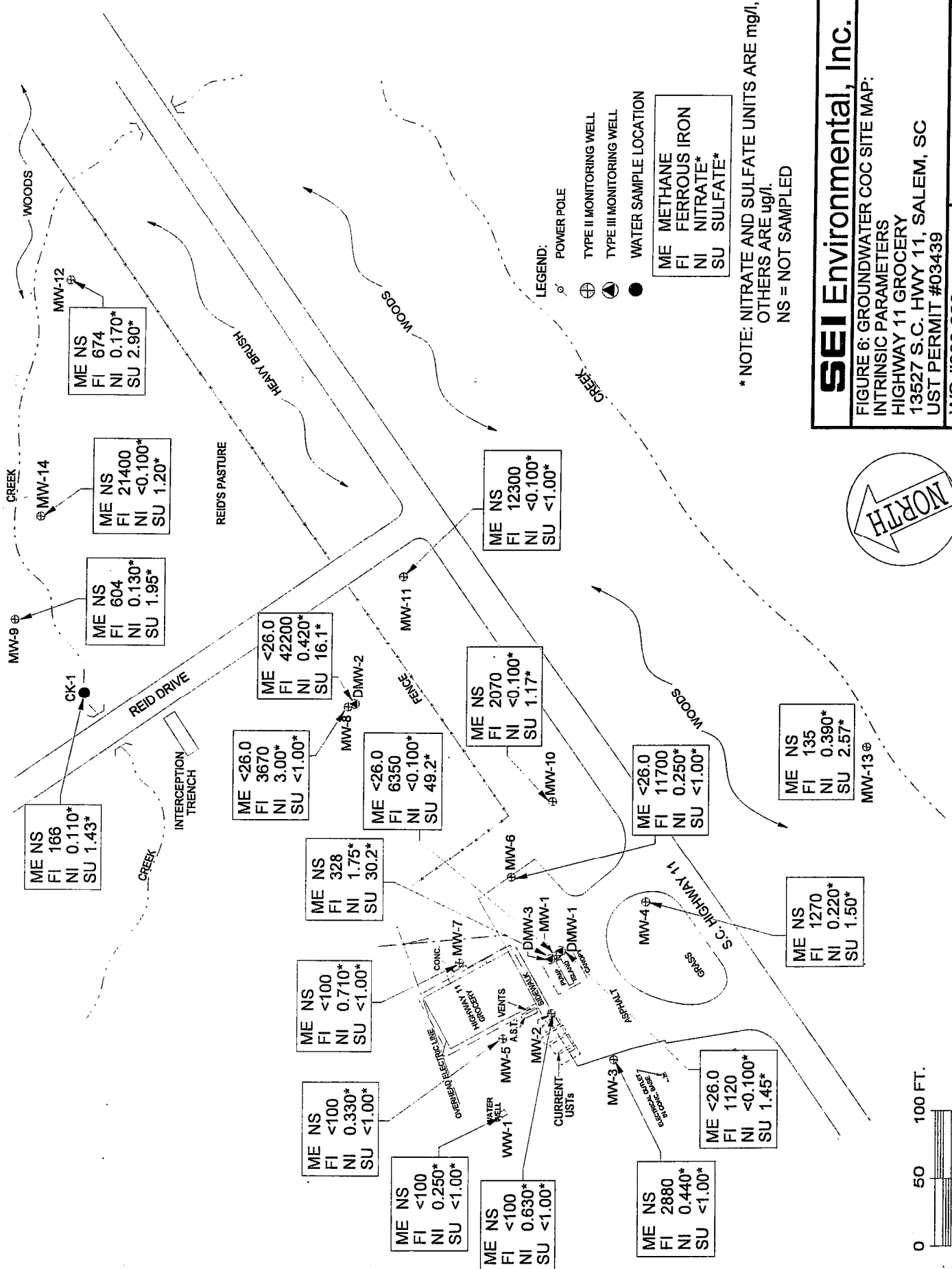
SEI Environmental, Inc.

FIGURE 5: GROUNDWATER COC SITE MAP:
LEAD

HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

WO #300-388
DWG #HI03885B

DATE: 1/8/02
DRAWN BY: JCJ



MW-9 ⊕
 ME NS
 FI 166
 NI 0.110*
 SU 1.43*

MW-14 ⊕
 ME NS
 FI 21400
 NI <0.100*
 SU 1.20*

MW-12 ⊕
 ME NS
 FI 674
 NI 0.170*
 SU 2.90*

MW-9 ⊕
 ME NS
 FI 604
 NI 0.130*
 SU 1.95*

MW-8 ⊕
 ME <26.0
 FI 42200
 NI 0.420*
 SU 16.1*

MW-8 ⊕
 ME <26.0
 FI 3670
 NI 3.00*
 SU <1.00*

MW-8 ⊕
 ME <26.0
 FI 6350
 NI <0.100*
 SU 49.2*

MW-10 ⊕
 ME NS
 FI 2070
 NI <0.100*
 SU 1.17*

MW-10 ⊕
 ME <26.0
 FI 11700
 NI 0.250*
 SU <1.00*

MW-13 ⊕
 ME NS
 FI 135
 NI 0.390*
 SU 2.57*

MW-7 ⊕
 ME NS
 FI 328
 NI 1.75*
 SU 30.2*

MW-7 ⊕
 ME NS
 FI <100
 NI 0.710*
 SU <1.00*

MW-7 ⊕
 ME NS
 FI <100
 NI 0.330*
 SU <1.00*

MW-5 ⊕
 ME NS
 FI <100
 NI 0.250*
 SU <1.00*

MW-1 ⊕
 ME NS
 FI <100
 NI 0.630*
 SU <1.00*

MW-3 ⊕
 ME NS
 FI 2880
 NI 0.440*
 SU <1.00*

MW-3 ⊕
 ME <26.0
 FI 1120
 NI <0.100*
 SU 1.45*

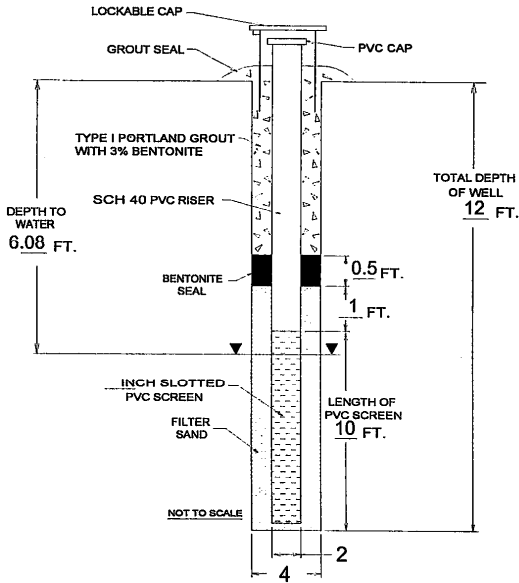
MW-4 ⊕
 ME NS
 FI 1270
 NI 0.220*
 SU 1.50*



APPENDIX A
Monitor Well Construction Logs

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-13 DATE DRILLED: 12/4/01
 STATE PERMIT #: 03439 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13527 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 77.72 LAND SURFACE ELEV.: N/D



DRILLING METHOD: HAND AUGER
 SAMPLING METHOD: GRAB
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010 INCH
 COMMENTS: _____

N/D = NOT DETERMINED

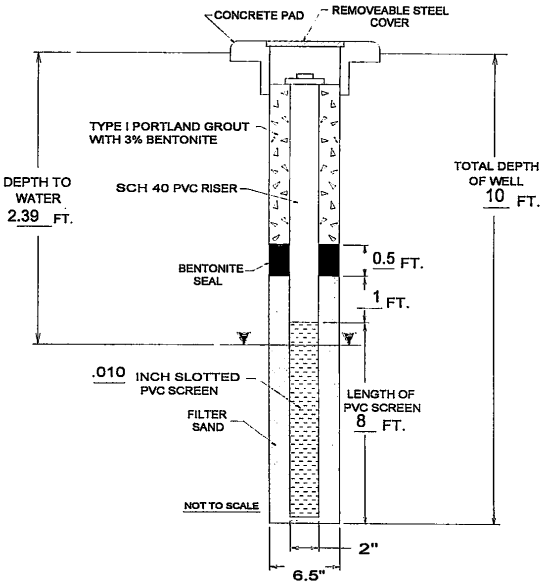
T.O.C. ELEVATION IS REFERENCED TO AN ASSUMED ELEVATION.

THIS IS AN ABOVE GRADE MONITOR WELL.

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	0.0	SP	GRAY, SOFT, VERY FINE-GRAINED SAND, WET
10		ND	ND	0.0	SP	GRAY, SOFT, VERY FINE-GRAINED SAND, WET
15						
20						
25						
30						
35						
40						

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-14 DATE DRILLED: 12/4/01
 STATE PERMIT #: 03439 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13527 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 59.19 LAND SURFACE ELEV.: N/D



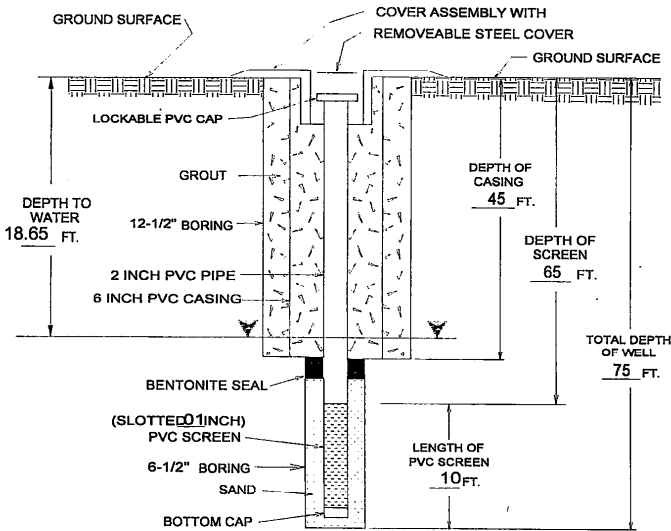
DRILLING METHOD: 2-1/4" HOLLOW STEM AUGER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010 INCH
 COMMENTS: _____

N/D = NOT DETERMINED
 T.O.C. ELEVATION IS REFERENCED TO AN ASSUMED ELEVATION.

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	1000+	SP	GRAY, SOFT, VERY FINE-GRAINED SAND, WET; STRONG PETROLEUM ODOR
10		ND	ND	ND		ROCK
15						
20						
25						
30						
35						
40						

Boring Log and Type III Well Construction Details

WELL IDENTIFICATION: DMW-2 DATE DRILLED: 12/5/01-12/6/01
 STATE PERMIT #: 03439 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13527 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 86.21 LAND SURFACE ELEV.: N/D

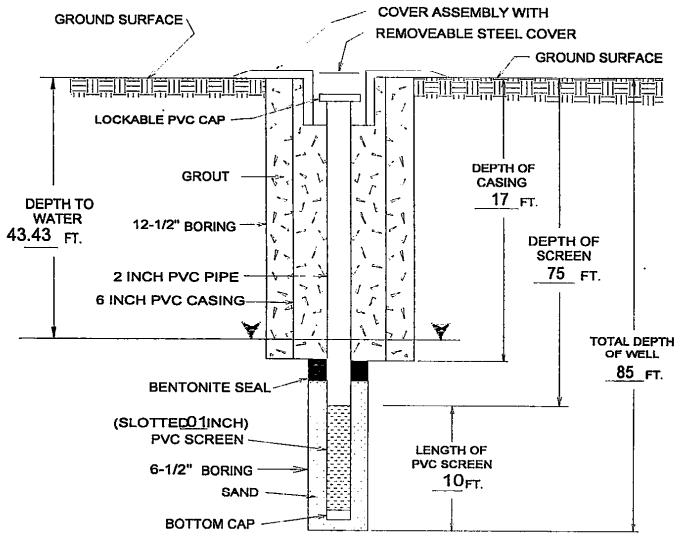


DRILLING METHOD: 8-1/4" HOLLOW STEM AUGER, AIR HAMMER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010"
 COMMENTS:
 TOP OF CASING ELEVATION IS REFERENCED TO AN ASSUMED ELEVATION.
 N/D= NOT DETERMINED
 NA = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	2.0	SM	RED, SOFT, VERY FINE-GRAINED SILTY SAND
10		ND	ND	3.0	SM	RED, SOFT, VERY FINE-GRAINED SILTY SAND
15		ND	ND	8.0	SM	RED, SOFT, VERY FINE-GRAINED SILTY SAND
20		ND	ND	600	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND, WET; STRONG PETROLEUM ODOR
25		ND	ND	600	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND, WET; STRONG PETROLEUM ODOR
30		ND	ND	200	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND, WET; STRONG PETROLEUM ODOR
35		ND	ND	ND	SM	GRAY, SOFT, FINE-GRAINED SILTY SAND, WET; STRONG PETROLEUM ODOR
40		ND	ND	ND	CL	BROWN, SOFT, FINE-GRAINED SANDY CLAY, WET; SLIGHT PETROLEUM ODOR
45		ND	ND	ND		45-75' ROCK
50						

Boring Log and Type III Well Construction Details

WELL IDENTIFICATION: DMW-3 DATE DRILLED: 12/3/01-12/4/01
 STATE PERMIT #: 03439 WORK ORDER #: 300-388
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13527 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 103.36 LAND SURFACE ELEV.: N/D



DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	ND	SW	TAN, SOFT, MEDIUM-GRAINED SAND
10		ND	ND	ND	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE
15		ND	ND	ND	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETROLEUM ODOR
17		ND	ND	ND		17-85' ROCK
20						
25						
30						
35						
40						
45						
50						

DRILLING METHOD: 8-1/4" HOLLOW STEM AUGER, AIR HAMMER
 SAMPLING METHOD: SPLIT SPOON
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010"
 COMMENTS:
TOP OF CASING ELEVATION IS REFERENCED TO AN ASSUMED ELEVATION.
N/D= NOT DETERMINED
NA = NOT APPLICABLE

APPENDIX B

Groundwater Sampling Field Measurements

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. MONEGMA
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no. _____		serial no. _____	
pH=4.0 _____		standard _____	
pH=7.0 _____		standard _____	
pH=10.0 _____		standard _____	

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 Gro
 Site ID#: 300388
 Monitoring Well # MW1

Well Diameter (D): 2" feet

Conversion factor (C): 3.14 X (D/2)² for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: .25 feet
 Depth to Ground Water (DGW) 26.24 feet
 Total Well Depth (TWD) 30 feet
 Length of the water column (LWC = TWD - DGW) 3.76 feet

1 casing volume (CV = LWC X C) = _____ X _____ = .61 gals
 3 casing volume 3 X CV = 1.83 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 1.5 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1145</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks: <u>Free product present in well, well not recharging</u>							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, P. CATE, J. MONEGHAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: How 11 Geo
 Site ID#: 300388
 Monitoring Well # MW2

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 27.84 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC = TWD - DGW) 7.16 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.17 gals

3 casing volume 3 X CV = 3.51 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 2.50 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1235</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks : <u>WBT DW</u>							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, P. CATE, J. MONEGIAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Gro
 Site ID#: 300388
 Monitoring Well # MW4

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 24.74 feet
 Total Well Depth (TWD) 35 feet
 Length of the water column (LWC = TWD - DGW) 10.26 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.67 gals
 3 casing volume 3 X CV = 5.01 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.01 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1255</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks : <u>Petroleum odor detected</u>							

Site Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, P. CATE, J. MONEGHAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Gro
 Site ID#: 300388
 Monitoring Well # MW5

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 30.58 feet
 Total Well Depth (TWD) 35 feet
 Length of the water column (LWC = TWD - DGW) 4.42 feet

1 casing volume (CV = LWC X C) = _____ X _____ = .72 gals
 3 casing volume 3 X CV = 2.16 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)	<u>4.49</u>	<u>4.37</u>	<u>4.33</u>				<u>12.5</u>
Water Temperature (°C)	<u>.017</u>	<u>.017</u>	<u>.017</u>				
Turbidity (subjective : clear, slightly cloudy, cloudy)	<u>16.9</u>	<u>16.9</u>	<u>16.8</u>				
Dissolved Oxygen	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>				
PID readings, if required	<u>6.84</u>	<u>7.53</u>	<u>7.30</u>				
Remarks :							

Review Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01

Field Personnel: J. Weyand, E. Cate, J. M. O'Connell

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

PH Meter
 serial no. _____ Conductivity Meter serial no. _____
 PH=4.0 _____ standard _____
 PH=7.0 _____ standard _____
 PH=10.0 _____ standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
 Received by _____ Date/Time _____

Facility Name: Hwy 11 Gr20
 Site ID#: 300388

Well Diameter (D): 2 " _____ feet
 Monitoring Well # MW 6

Conversion factor (C): $3.14 \times (D/2)^2$ For a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 23.37 feet
 Total Well Depth (TWD) 35 feet

Length of the water column (LWC = TWD - DGW) 11.63 feet
 I casing volume (CV = LWC X C) = _____ X _____ = 1.90 gals
 3 casing volume 3 X CV = 5.70 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 * If free product is present over 1/8 inch, sampling will not be required.

	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Cumulative Volume Purged (gallons)							
Time (military)							
PH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1335</u>
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks:	_____						

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. MONEGHA
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: How 11 Gro
 Site ID#: 300388
 Monitoring Well # MW7
 Well Diameter (D): 2" feet

Conversion factor (C): 3.14 X (D/2)² for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 29.97 feet
 Total Well Depth (TWD) 40 feet
 Length of the water column (LWC = TWD - DGW) 10.03 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.63 gals
 3 casing volume 3 X CV = 4.89 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 * If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1305</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks :							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. MONEGHA
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 Gro
 Site ID#: 300388
 Monitoring Well # MW8
 Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 * Free Product Thickness: 21.78 feet
 Depth to Ground Water (DGW) 22.32 feet
 Total Well Depth (TWD) 30 feet
 Length of the water column (LWC = TWD - DGW) 7.68 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.25 gals
 3 casing volume 3 X CV = 3.75 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>11:55</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks : <u>free product</u>							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. McNEGGHAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: How 11 Gro
 Site ID#: 300388
 Monitoring Well # MW10
 Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 21.45 feet
 Total Well Depth (TWD) 24 feet
 Length of the water column (LWC = TWD - DGW) 2.55 feet

1 casing volume (CV = LWC X C) = _____ X _____ = .42 gals
 3 casing volume 3 X CV = 1.26 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 1.26 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1340</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks : <u>Petroleum odor detected</u>							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. MONEGHAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 Gro
 Site ID#: 300388
 Monitoring Well # MW11

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 18.20 feet
 Total Well Depth (TWD) 23 feet
 Length of the water column (LWC = TWD - DGW) 4.8 feet

1 casing volume (CV = LWC X C) = _____ X _____ = .78 gals
 3 casing volume 3 X CV = 2.34 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 2.34 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1320</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks: <u>Petroleum odor detected</u>							

Site Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WELAND, P. CATE, J. MORGAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter
 serial no. _____
 pH=4.0 _____
 pH=7.0 _____
 pH=10.0 _____

Conductivity Meter
 serial no. _____
 standard _____
 standard _____
 standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GR20
 Site ID#: 300388

Monitoring Well # MW12
 Well Diameter (D): 2" _____ feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 3.07 feet
 Total Well Depth (TWD) 12 feet
 Length of the water column (LWC = TWD - DGW) 8.93 feet

1 casing volume (CV = LWC X C) = _____ X _____ = _____ gals
 3 casing volume 3 X CV = 7.38 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 9.0 gals.
 * If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)	<u>14:10</u>	<u>14:12</u>	<u>14:15</u>	<u>14:17</u>			<u>14:20</u>
Specific Cond. (µmhos/cm)	<u>5.50</u>	<u>4.94</u>	<u>4.76</u>	<u>4.76</u>			<u>4.85</u>
Water Temperature (°C)	<u>.031</u>	<u>.031</u>	<u>.033</u>	<u>.031</u>			<u>.033</u>
Turbidity (subjective : clear, slightly cloudy, cloudy)	<u>13.7</u>	<u>13.4</u>	<u>13.3</u>	<u>13.1</u>			<u>13.0</u>
Dissolved Oxygen	<u>slightly cloudy</u>	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>			<u>cloudy</u>
PID readings, if required	<u>0.88</u>	<u>1.42</u>	<u>1.96</u>	<u>2.80</u>			<u>3.55</u>
Remarks:							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. MONEGHA
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
 Received by _____ Date/Time _____

Facility Name: HOY 11 G20
 Site ID#: 300388
 Monitoring Well # MW14

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 2.39 feet
 Total Well Depth (TWD) 10 feet
 Length of the water column (LWC = TWD - DGW) 7.61 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 1.24 gals
 3 casing volume 3 X CV = 3.72 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 4.0 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)	<u>13:42</u>	<u>13:46</u>	<u>13:48</u>	<u>13:50</u>			<u>13:55</u>
Specific Cond. (µmhos/cm)	<u>6.50</u>	<u>5.85</u>	<u>5.74</u>	<u>5.71</u>			<u>5.75</u>
Water Temperature (°C)	<u>14.8</u>	<u>13.9</u>	<u>13.8</u>	<u>13.7</u>			<u>13.5</u>
Turbidity (subjective : clear, slightly cloudy, cloudy)	<u>15.4</u>	<u>15.5</u>	<u>15.7</u>	<u>15.7</u>			<u>15.7</u>
Dissolved Oxygen	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>	<u>cloudy</u>			<u>cloudy</u>
PID readings, if required	<u>0.40</u>	<u>0.65</u>	<u>0.85</u>	<u>0.98</u>			<u>1.04</u>
Remarks :							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, P. CATE, J. MONEGHA
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 Gro
 Site ID#: 300388
 Monitoring Well # DMW1

Well Diameter (D): 2" feet

Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 26.35 feet
 Total Well Depth (TWD) 45 feet
 Length of the water column (LWC = TWD - DGW) 18.65 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 3.04 gals
 3 casing volume 3 X CV = 9.12 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 9.12 gals.

* If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							
Water Temperature (°C)							<u>12.30</u>
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks: <u>Petroleum odor detected</u>							

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 12/11/01
 Field Personnel: J. WEYAND, R. CATE, J. MONEGAN
 General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____
 pH=4.0 _____
 pH=7.0 _____
 pH=10.0 _____

Conductivity Meter serial no. _____
 standard _____
 standard _____
 standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
 Received by _____ Date/Time _____

Facility Name: HWY 11 Gro
 Site ID#: 300388
 Monitoring Well # DMW3

Well Diameter (D): 2" feet
 Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 * Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 73.43 feet
 Total Well Depth (TWD) 85 feet
 Length of the water column (LWC = TWD - DGW) 11.57 feet

1 casing volume (CV = LWC X C) = _____ X _____ = 6.78 gals
 3 casing volume 3 X CV = 20.34 gals (standard purge volume)
 Total Volume of Water Purged Before Sampling _____ gals.
 * If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							<u>1140</u>
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							
Remarks :							

APPENDIX C

Groundwater Laboratory Analytical Results and Chain-of-Custody

Test America

INCORPORATED

FAX NNNN FAX NNNN FAX

FROM: KAREN MOORE
 CHRIS COMPTON

(803) 865-5500 PHONE
(803) 865-5503 FAX

COMPANY: TEST AMERICA

TO: JENNIFER H

FAX NUMBER: _____

OF PAGES INCLUDING COVER SHEET 1

DATE: 12/21/01

COMMENTS: SEI WOULD LIKE TO TEST FOR METHANE

FOR THE FOLLOWING WELLS:

MW-1 (01-A179238)

MW-6 (01-A179243)

MW-8 (01-A179245)

DMW-1 (01-A179278)

DMW-2 (01-A179279) > 263946

JOB NAME: Hiway 11 ESTOLOGY

TRACKING # 263931

*BTEX
VOAS*

9440 B TWO NOTCH ROAD COLUMBIA, SOUTH CAROLINA 29223

APPENDIX D
Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
.....

Manifest Document No.
GK4215

2. Page 1 of

3. Generator's Name and Mailing Address
HWY 11 GROCERY
13527 SC HWY 11
SALEM, SC

4. Generator's Phone ()

5. Transporter 1 Company Name
G&K TANK SERVICES, INC.

6. US EPA ID Number
.....

A. Transporter's Phone
800-800-6840

7. Transporter 2 Company Name

8. US EPA ID Number
.....

B. Transporter's Phone

9. Designated Facility Name and Site Address
G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

10. US EPA ID Number
.....

C. Facility's Phone
800-800-6840

11. Waste Shipping Name and Description

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED SOIL

10DR
55
9/11
DL

.....

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER

02DR
5
9/11
DL

.....

c.

.....

d.

.....

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SET ENVIRONMENTAL
3021 MCNAUGHTON DRIVE SUITE 9
COLUMBIA, SC 29223

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
RICHARD SMOOT

Signature
Richard Smoot

Month Day Year
12 | 14 | 01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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
S. Collett

Signature
S. Collett

Month Day Year
12 | 14 | 01

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 10 Drums _____
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Soil

This is to certify the above soil has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. Sallet Date 12/14/01



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 2 Drums
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ^{water} ~~oil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by *S. Solter*

Date 12/14/01

SEI 
Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

RECEIVED

JUN 26 2002

Underground Storage
Tank Program

30-TECH

June 26, 2002

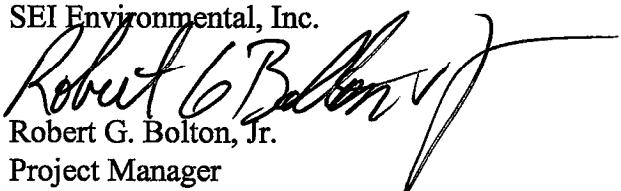
Mr. Konstantine Akhvlediani, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

RE: Groundwater Assessment Report
Highway 11 Grocery
UST Permit #03439
Oconee County

Dear Mr. Akhvlediani:

Attached is the Groundwater Assessment Report for Highway 11 Grocery. Should you have any questions or require additional information, please contact me at 788-2535.

Sincerely,
SEI Environmental, Inc.


Robert G. Bolton, Jr.
Project Manager

Attachment

cc: Mr. Steve Smith, Highway 11 Grocery



GROUNDWATER ASSESSMENT REPORT

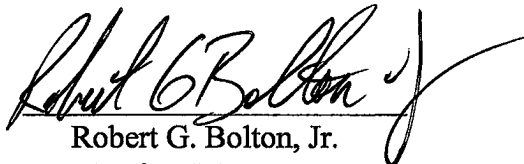
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
Oconee County
UST Permit #03439

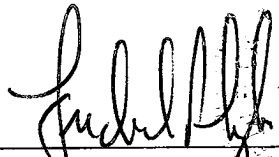
PREPARED FOR:

Mr. Steve Smith
Highway 11 Grocery
180 Shallowford Road
Salem, South Carolina

PREPARED BY:

SEI Environmental, Inc.
3021 McNaughton Drive, Suite 9
Columbia, South Carolina 29223
(803) 788-2535


Robert G. Bolton, Jr.
Project Manager


Frederick P. Lyke, O.G. #1055

June 26, 2002

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APPENDIX D	Groundwater Laboratory Analytical Results and Chain-of-Custody
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1.0 INTRODUCTION

Mr. Steve Smith contracted SEI Environmental, Inc. (SEI) to conduct groundwater assessment activities at the Highway 11 Grocery facility located at 13527 South Carolina Highway 11 near Salem, South Carolina. A site location map is presented as Figure 1. The assessment activities were approved by SCDHEC in correspondence to Mr. Smith dated March 21, 2002. A site location map is presented as Figure 1.

2.0 METHODOLOGY

2.1 Monitor Well Installation

Environmental Construction Services (ECS) personnel, using a truck mounted CME-75 drill rig, installed one (1) Type III groundwater monitor wells (identified as DMW-4) on May 6-7, 2002. ECS personnel, using a decontaminated hand auger, installed one (1) Type II groundwater monitor well (identified as MW-15) on May 6, 2002. Monitor Well DMW-4 was installed to an approximate depth of 60 feet below ground surface (bgs), and Monitor Well MW-15 was installed to an approximate depth of 9 feet bgs. Specifically, Monitor Well DMW-4 was installed adjacent to Monitor Well DMW-1. Monitor Well MW-15 was installed across Highway 11 from the site and adjacent to a tributary to Fall Creek. Soil samples were not obtained for laboratory analysis during the installation of the monitor wells; however, soil samples were collected for lithologic descriptions during all monitor well installations. Monitor well locations are depicted in Figure 2.

The monitor wells are constructed of 2-inch diameter, Schedule 40, flush threaded PVC well casing with factory slotted (0.01-inch opening) Schedule 40 PVC well screen attached. The Type II monitor well is constructed with the top of the well screen above the water table to allow for detection of potential free-phase liquid hydrocarbon. A uniformly graded silica filter pack was installed in the annular space from total depth to approximately 2.0 feet above the top of the

screen and followed by approximately 1.0 foot of bentonite pellets, which were hydrated. The remainder of the boring was grouted to land surface. Monitor Well MW-15 was completed with a water tight, locking PVC cap, protected by a three foot above-grade steel manway with a lockable lid. Following installations, each monitor well was developed with a clean, centrifugal pump to remove any fine materials that may impede the flow of groundwater into the well. Monitor Well DMW-4 was similarly constructed with the exception of a six-inch diameter outer casing set in rock at a depth of 50 feet bgs. Air rotary techniques were used to drill through the outer casing of DMW-4 and complete it from approximately 50 to 60 feet bgs the following day. Monitor Well DMW-4 was completed with a water tight, locking PVC cap, protected by a flush finished concrete pad with a 9-inch diameter steel, traffic rated manhole with a bolt down cover. Monitor well construction details and lithologic descriptions are presented in Appendix A.

2.2 Monitor Well Abandonment

On May 6, 2002, ECS personnel properly abandoned Monitor Well DMW-3, which was previously installed to an approximate depth of 85 feet below ground surface. A copy of the monitor well abandonment record is presented in Appendix B.

2.3 Boom Maintenance

SEI personnel mobilized to the site March 13, 2002, April 25, 2002, May 7, 2002, and June 10, 2002, for boom maintenance activities on the interception trench and Fall Creek. During the March and May visits, SEI personnel removed the booms and placed them in 55-gallon drums. These drums were later transported to G & K Tank Services in Sumter, South Carolina for proper disposal. During the April and June visits, SEI personnel inspected the booms and turned them over. The disposal manifests are presented in Appendix E along with the manifests for the soil and water generated during the current assessment activities.

2.4 Site Hydrogeology

During the May 8, 2002, gauging event, approximately 0.04 feet and 0.06 feet of liquid phase hydrocarbons (LPH) were detected at Monitor Wells MW-1 and MW-8, respectively.

Groundwater flow direction is toward the east and northeast with a hydraulic gradient of 0.0359 feet per foot, as measured between Monitor Wells MW-1 and MW-12. Groundwater measurements are summarized in Table I, and a groundwater elevation contour map is depicted in Figure 3.

2.5 Soil Organic Vapor Measurements

Soil organic vapor concentration measurements were performed on saturated soil samples obtained during monitor well installations with a Foxboro™ Model 128 OVA-FID. The OVA-FID was compared with a known standard (i.e. methane at 96 ppm) each day before it was used. Each soil sample was placed in a new, resealable, plastic bag and allowed to volatilize for a minimum of fifteen minutes. The OVA-FID probe was then inserted into the headspace of the bag, and the highest organic vapor reading observed was recorded for each sample. Organic vapor concentrations are recorded on the lithologic and monitor well construction logs.

2.6 Groundwater Sampling and Analysis

During the current assessment activities, SEI personnel obtained groundwater samples from Monitor Wells MW-2 through MW-7, MW-9 through MW-15, DMW-1, DMW-2, and DMW-4. Groundwater samples were not collected from Monitor Wells MW-1 and MW-8 due to the presence of LPH at these locations. In addition, a groundwater sample was collected from the potable water well (identified as WW-1) located at the subject property. A surface water sample (identified as CK-1) was collected from Fall Creek located hydraulically down-gradient from the site, and another surface water sample (identified as CK-2) was collected from a tributary to Fall

Creek located across Highway 11 from the site. On June 10, 2002, SEI personnel resampled Monitor Well MW-15 to verify concentrations detected during the May 8, 2002, sampling activities. A new, disposable, polyethylene bailer was used for the collection of the water samples from the monitor wells. Each sample was obtained after pH and temperature values had equilibrated unless petroleum odor was emanating from the well. If petroleum odors were observed in the monitor well, the groundwater sample was obtained after three well volumes were purged. All purge water was drummed for proper disposal at a permitted treatment facility. Field measurements are presented in Appendix C. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to TestAmerica Inc. in Nashville, Tennessee for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. The samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B. In addition, all samples except CK-2 were analyzed for nitrate by EPA method 353.2; sulfate by EPA method 9056; and ferrous iron by EPA method 3500D. Only Monitor Wells MW-6, MW-10, and DMW-1 were analyzed for methane by EPA method RSK175M and ferrous iron by EPA method 3500D, as these wells are located at the source and hydraulically down-gradient from the source area.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Groundwater Results

Groundwater analytical results for the samples collected during the current assessment activities detected the presence of benzene concentrations at Samples MW-2, MW-4, MW-6, MW-7, MW-10, MW-14, DMW-1, and CK-1. Toluene concentrations were detected at Samples MW-2, MW-4, MW-6, MW-7, MW-10, MW-14, MW-15, DMW-1, and CK-1. Ethylbenzene concentrations were detected at Samples MW-4, MW-6, MW-10, MW-14, MW-15, and CK-1.

Xylenes concentrations were detected at Samples MW-2, MW-4, MW-6, MW-7, MW-10, MW-14, MW-15, and CK-1. It is probable that ethylbenzene and xylenes concentrations exist at Monitor Well DMW-1, but a high dilution factor caused the results to be below detection limits. MTBE concentrations were detected at Samples MW-4, MW-6, MW-7, MW-10, MW-11, MW-12, MW-14, DMW-1, and CK-1. Naphthalene concentrations were detected at Sample MW-10. It is probable that naphthalene concentrations exist at Samples MW-4, MW-6, MW-14, and DMW-1, but a high dilution factor caused the results to be below detection limits. Methane concentrations were not detected at any sampled locations. Ferrous iron concentrations were detected at Monitor Wells MW-6, MW-10, and DMW-1. Nitrate concentrations were detected at all sample locations except MW-4, MW-10, MW-14, MW-15, and DMW-1. Sulfate concentrations were detected at Samples MW-4, MW-10, MW-12, MW-14, MW-15, DMW-1, DMW-2, DMW-4, and CK-1.

Benzene concentrations were detected greater than its risk based screening level (RBSL) of 5 µg/l at Samples MW-2, MW-4, MW-6, MW-7, MW-10, MW-14, DMW-1, and CK-1. Toluene concentrations were detected greater than its RBSL of 1000 µg/l at Samples MW-4, MW-6, and MW-14. Ethylbenzene and xylenes concentrations were detected greater than their respective RBSLs of 700 µg/l and 10000 µg/l at Sample MW-14. MTBE concentrations were detected greater than its RBSL of 40 µg/l at Samples MW-4, MW-6, MW-10, MW-14, and DMW-1. Naphthalene concentrations were not detected greater than its RBSL of 25 µg/l at any sample locations. However, it is probable that naphthalene concentrations exist greater than its RBSL at Samples MW-4, MW-6, MW-14, and DMW-1, but high dilution factors caused the results to be below detection limits. Groundwater analytical results are presented in Table II, and groundwater concentrations are depicted in Figures 4 and 5. Historical groundwater analytical results are presented in Table III. Laboratory analyses and chain-of-custody are presented in Appendix D.

Laboratory analytical results for the May 8, 2002, sampling event for Monitor Well MW-15 detected benzene concentrations of 20.3 µg/l, toluene concentrations of 170 µg/l, ethylbenzene concentrations of 27.1 µg/l, and xylenes concentrations of 91.0 µg/l. MTBE and naphthalene concentrations were not detected greater than their respective detection limits. Due to benzene concentrations existing greater than its RBSL of 5 µg/l, SEI personnel resampled this well on June 10, 2002. Laboratory results for this resampling event did not detect benzene, MTBE, or naphthalene concentrations greater than their respective detection limits. However, toluene concentrations of 3.9 µg/l, ethylbenzene concentrations of 3.9 µg/l, and xylenes concentrations of 14.4 µg/l were detected at Monitor Well MW-15.

4.0 CONCLUSIONS

- Groundwater flow at the site is in a northeastern direction with a hydraulic gradient of 0.0359 feet per foot, as measured between Monitor Wells MW-1 and MW-12.
- Approximately 0.04 feet and 0.06 feet of liquid phase hydrocarbons were detected at Monitor Wells MW-1 and MW-8 during the May 8, 2002, gauging event.
- The onsite potable water well, identified as WW-1, was sampled as part of the current assessment activities. Laboratory analytical results failed to detect petroleum hydrocarbons in this well.
- Surface water samples were collected from Fall Creek (identified as CK-1) and its tributary (identified as CK-2) located hydraulically down-gradient from the site. Laboratory analytical results detected BTEX and MTBE concentrations at Sample CK-1; however, laboratory analytical results failed to detect petroleum hydrocarbons at Sample CK-2.
- SEI personnel continue to monitor the absorbent booms that have been placed in the interception trench and on Fall Creek directly down-gradient from the site. These booms are replaced on a monthly basis or as needed to prevent the migration of a petroleum sheen from traveling down Fall Creek.

- Total BTEX concentrations have increased at Samples MW-14 and CK-1 since the previous sampling activities. However, total BTEX concentrations have decreased or remained below detection limits at the remaining sample locations for the same period. MTBE concentrations have increased at Samples MW-7 and CK-1 since the previous sampling activities. However, MTBE concentrations have decreased or remained below detection limits at the remaining sample locations for the same period. Naphthalene concentrations have decreased or remained below detection limits for all sample locations since the previous sampling event. Comparisons for naphthalene could not be made for Monitor Wells MW-4, MW-6, MW-14, and DMW-1 due to high dilution factors at these locations.
- Monitor Well DMW-3 was properly abandoned during the current assessment activities.
- Petroleum hydrocarbons in the groundwater have been vertically delineated in the source area with the installation of Monitor Well DMW-4.
- Petroleum hydrocarbons in the groundwater have been horizontally delineated in the direction of Monitor Well MW-10 with the installation of Monitor Well MW-15.

5.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the current UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

REFERENCES

Aucott, Walter R. and Gary K. Speiran, 1985, *Geohydrology and Water Quality of the Coastal Plain Aquifers of South Carolina*, Proceedings of Symposium on Groundwater and Environmental Hydrogeology in South Carolina October 1 & 2, 1985. SCDHEC 153p.

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SCDHEC, May 15, 2001, *Risk-Based Corrective Action for Petroleum Releases*, Columbia, South Carolina.

SEI Environmental, Inc., September 25, 2001, *Tier II Assessment Report – Highway 11 Grocery*, Columbia, South Carolina.

SEI Environmental, Inc., January 8, 2002, *Tier II Assessment Addendum Report – Highway 11 Grocery*, Columbia, South Carolina.

TABLE I
Groundwater Elevation Data
Highway 11 Grocery / Salem, South Carolina

Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Water Table Elevation (feet)
MW-1	05/08/02	103.38	24.67*	0.04	30	78.71
MW-2	05/08/02	104.85	26.08	0	35	78.77
MW-3	05/08/02	104.89	24.78	0	30	80.11
MW-4	05/08/02	99.90	23.38	0	35	76.52
MW-5	05/08/02	106.06	28.82	0	35	77.24
MW-6	05/08/02	100.00	21.66	0	35	78.34
MW-7	05/08/02	103.66	28.12	0	40	75.54
MW-8	05/08/02	86.51	21.00*	0.06	30	65.51
MW-9	05/08/02	58.39	2.47	0	12	55.92
MW-10	05/08/02	93.78	20.04	0	24	73.74
MW-11	05/08/02	83.20	16.86	0	23	66.34
MW-12	05/08/02	58.69	3.12	0	12	55.57
MW-13	05/08/02	77.72	6.52	0	12	71.20
MW-14	05/08/02	59.19	2.14	0	10	57.05
MW-15	05/08/02	71.52	10.61	0	9	60.91
DMW-1	05/08/02	103.27	24.68	0	45	78.59
DMW-2	05/08/02	86.21	17.22	0	75	68.99
DMW-4	05/08/02	103.22	25.08	0	60	78.14

Top of casing elevations are based on an assumed elevation.

* Adjusted depth to water = depth to water – [(LPH thickness) x 0.78]

TABLE II
Groundwater Analytical Results
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-1 (µg/l)	MW-2 (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)	MW-11 (µg/l)
Free Product Thickness	NA	0.04'	None	None	None	None	None	None	0.06'	None	None	None
Benzene	5	NS	13.1	<1.0	1500	<1.0	1780	34.3	NS	<1.0	115	<1.0
Toluene	1000	NS	8.4	<1.0	5320	<1.0	4950	19.9	NS	<1.0	185	<1.0
Ethylbenzene	700	NS	<1.0	<1.0	620	<1.0	490	<1.0	NS	<1.0	68.1	<1.0
Xylenes	10000	NS	5.0	<1.0	3360	<1.0	2880	7.8	NS	<1.0	328	<1.0
Total BTEX	NA	NA	<27.5	<4.0	10800	<4.0	10100	<63.0	NA	<4.0	696.1	<4.0
MTBE	40	NS	<5.0	<5.0	810	<5.0	6350	6.5	NS	<5.0	85.5	5.4
Naphthalene	25	NS	<5.0	<5.0	<500	<5.0	<500	<5.0	NS	<5.0	8.6	<5.0
Methane	NA	NS	NS	NS	NS	NS	<26	NS	NS	NS	<26	NS
Ferrous Iron	NA	NS	NS	NS	NS	NS	7520	NS	NS	NS	4260	NS
Nitrate	NA	NS	1.44*	0.490*	<0.100*	0.330*	0.130*	0.610*	NS	0.170*	<0.100*	0.100*
Sulfate	NA	NS	<1.00*	<1.00*	1.20*	<1.00*	<1.00*	<1.00*	NS	<1.00*	8.51*	<1.00*

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*denotes results in mg/l

TABLE II (continued)
Groundwater Analytical Results
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-12 (µg/l)	MW-13 (µg/l)	MW-14 (µg/l)	MW-15 (µg/l)	DMW-1 (µg/l)	DMW-2 (µg/l)	DMW-4 (µg/l)	CK-1 (µg/l)	CK-2 (µg/l)	WW-1 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	NA	NA	NA
Benzene	5	<1.0	<1.0	3780	<2.0	215	<1.0	<1.0	24.6	<1.0	<2.0
Toluene	1000	<1.0	<1.0	13800	3.9	430	<1.0	1.1	26.5	<1.0	<2.0
Ethylbenzene	700	<1.0	<1.0	27000	3.9	<50.0	<1.0	<1.0	8.0	<1.0	<2.0
Xylenes	10000	<1.0	<1.0	14700	14.4	<50.0	<1.0	<1.0	41.8	<1.0	<2.0
Total BTEX	NA	<4.0	<4.0	59280	<24.2	<745	<4.0	<4.1	100.9	<4.0	<8.0
MTBE	40	5.6	<5.0	7010	<2.0	1780	<5.0	<5.0	36.1	<5.0	<2.0
Naphthalene	25	<5.0	<5.0	<500	<5.0	<250	<5.0	<5.0	<5.0	<5.0	<5.0
Methane	NA	NS	NS	NS	NS	<26	NS	NS	NS	NS	NS
Ferrous Iron	NA	NS	NS	NS	NS	160	NS	NS	NS	NS	NS
Nitrate	NA	0.270*	0.770*	<0.100*	<0.100*	<0.100*	0.220*	0.810*	0.220*	NS	0.250*
Sulfate	NA	1.75*	<1.00*	1.11*	3.58*	4.21*	3.63*	13.4*	1.30*	NS	<1.00*

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*denotes results in mg/l

TABLE III
Historical Groundwater Analytical Results, dated December 2001
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-1 (µg/l)	MW-2 (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)
Free Product Thickness	NA	0.25'	None	None	None	None	None	None	0.54'	None	None
Benzene	5	23100	28.4	<1.0	1730	<1.0	6950	62.9	21100	<1.0	2540
Toluene	1000	58800	18.6	1.9	3840	<1.0	27300	74.5	57600	<1.0	7130
Ethylbenzene	700	5050	<1.0	<1.0	865	<1.0	3300	1.8	4870	<1.0	966
Xylenes	10000	26000	16.1	<1.0	4600	<1.0	17200	21.4	25400	<1.0	4440
Total BTEX	NA	112950	<64.1	<4.9	11035	<4.0	54750	160.6	108970	<4.0	15076
MTBE	40	118000	<5.0	<5.0	925	<5.0	7350	<5.0	49000	<5.0	3210
Naphthalene	25	<2500	<5.0	<5.0	250	<5.0	<2500	<5.0	980	<5.0	199
Methane	NA	<26.0	NS	NS	NS	NS	<26.0	NS	<26.0	NS	NS
Lead	15	267	69.0	251	539	1070	378	15.0	22.0	8.00	87.0
Ferrous Iron	NA	6350	<100	2880	1270	<100	11700	<100	3670	604	2070
Nitrate	NA	<0.100*	0.630*	0.440*	0.220*	0.330*	0.250*	0.710*	3.00*	0.130*	<0.100*
Sulfate	NA	49.2*	<1.00*	<1.00*	1.50*	<1.00*	<1.00*	<1.00*	<1.00*	1.95*	1.17*

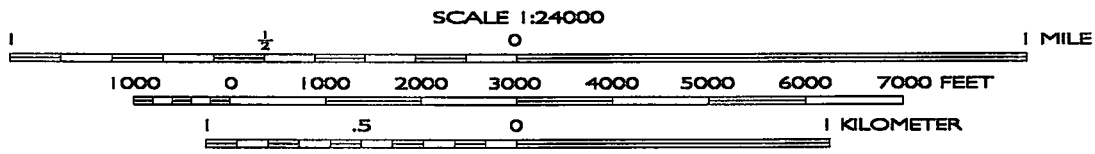
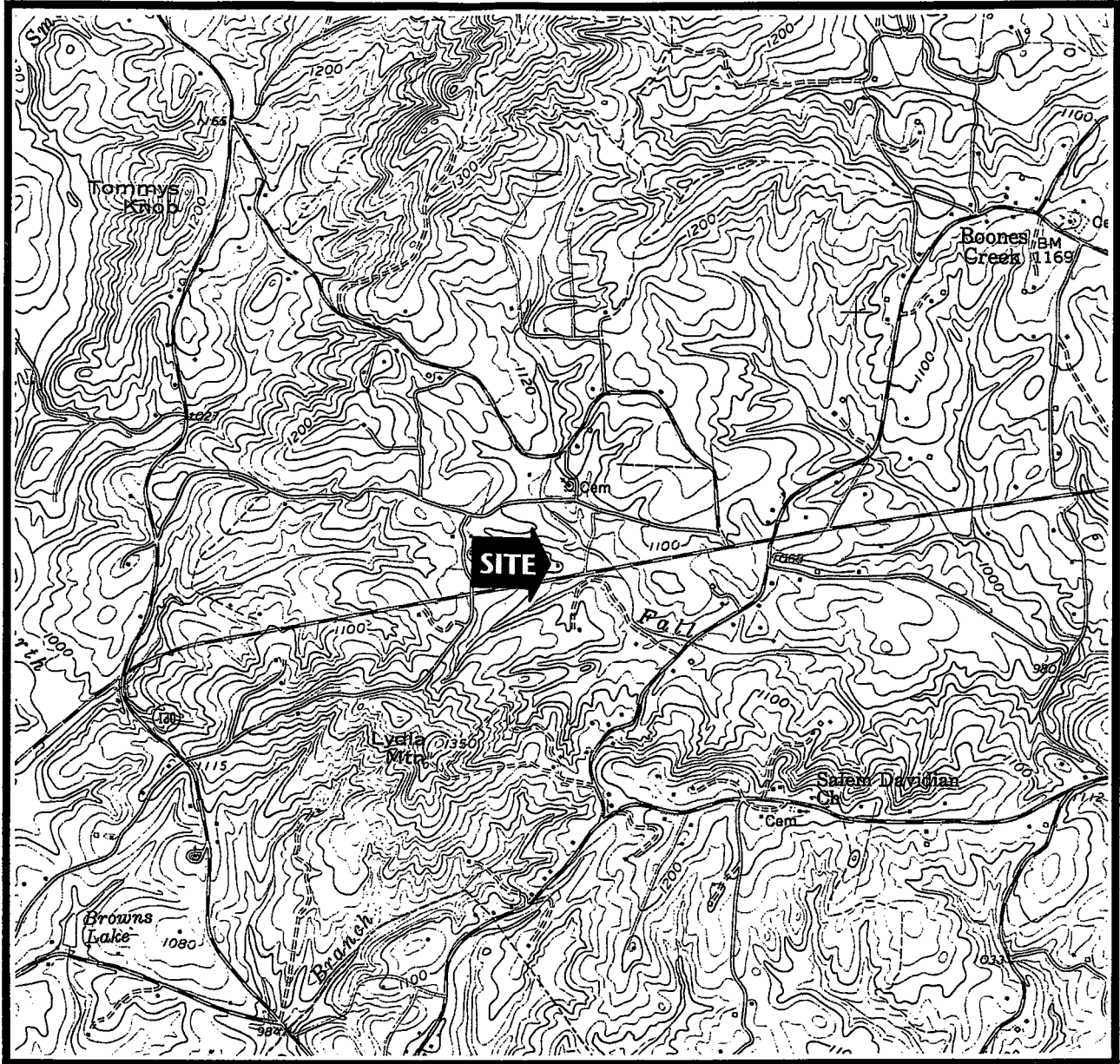
Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled

*denotes results in mg/l

TABLE III (continued)
Historical Groundwater Analytical Results, dated December 2001
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)	MW-13 (µg/l)	MW-14 (µg/l)	DMW-1 (µg/l)	DMW-2 (µg/l)	DMW-3 (µg/l)	CK-1 (µg/l)	WW-1 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	NA	NA
Benzene	5	1120	<1.0	<1.0	4220	3530	1.8	5620	11.3	<1.0
Toluene	1000	32.0	<1.0	<1.0	13700	7000	1.1	29600	18.6	<1.0
Ethylbenzene	700	178	<1.0	<1.0	2180	625	<1.0	3380	4.7	<1.0
Xylenes	10000	970	<1.0	<1.0	11400	3420	<1.0	14300	25.6	<1.0
Total BTEX	NA	2300.0	<4.0	<4.0	31500	14575	<4.9	52900	60.2	<4.0
MTBE	40	272	9.3	<5.0	9560	16400	30.7	8410	17.7	<5.0
Naphthalene	25	70.0	<5.0	<5.0	453	132	<5.0	795	5.9	<5.0
Methane	NA	NS	NS	NS	NS	<26.0	<26.0	NS	NS	NS
Lead	15	89.0	52.0	114	43.0	<3.00	499	11.0	<3.00	<3.00
Ferrous Iron	NA	12300	674	135	21400	1120	42200	328	166	<100
Nitrate	NA	<0.100*	0.170*	0.390*	<0.100*	<0.100*	0.420*	1.75*	0.110*	0.250*
Sulfate	NA	<1.00*	2.90*	2.57*	1.20*	1.45*	16.1*	30.2*	1.43*	<1.00*

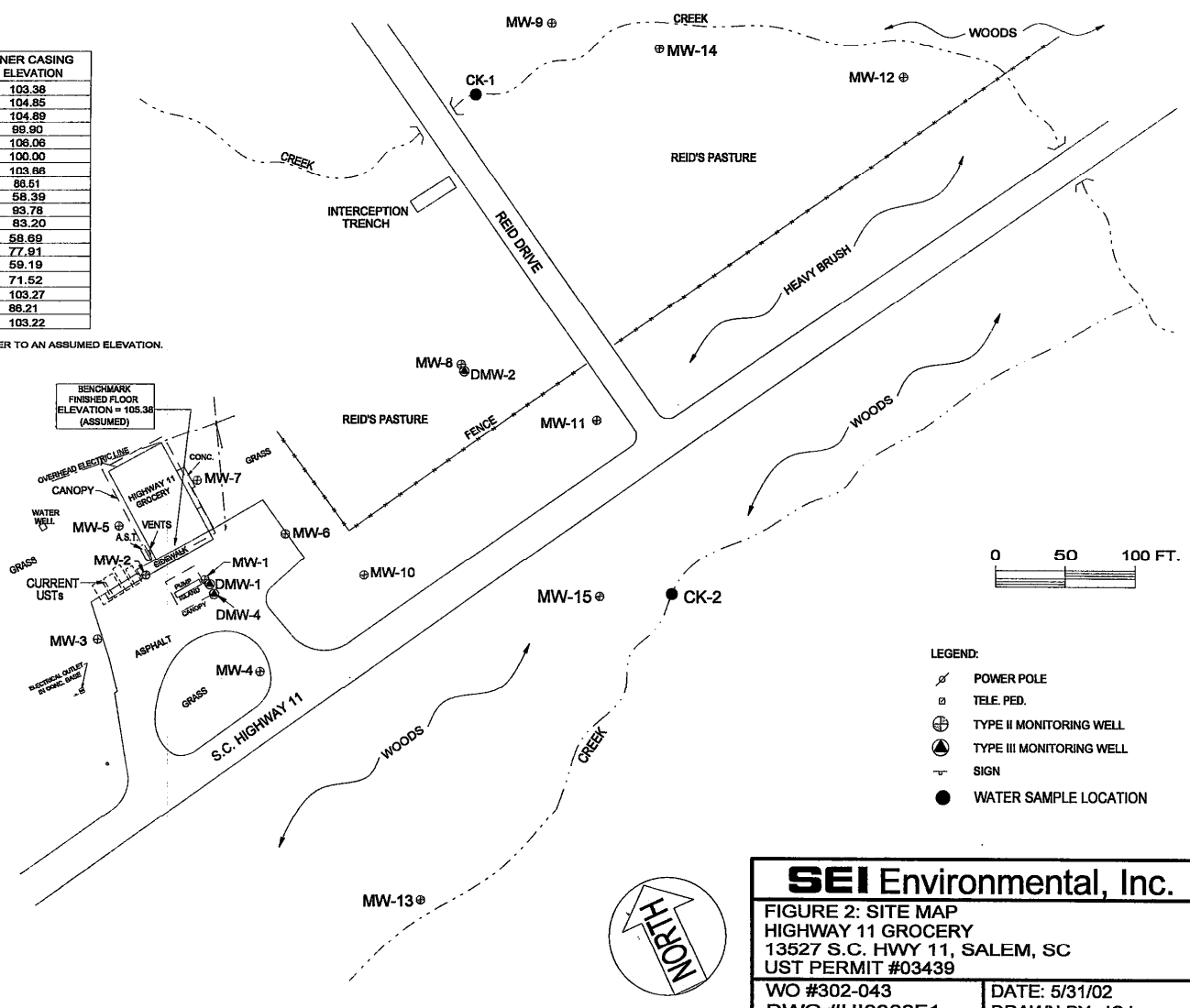
Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled
 *denotes results in mg/l



SEI Environmental, Inc.	
FIGURE 1: SITE LOCATION MAP HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: JCI

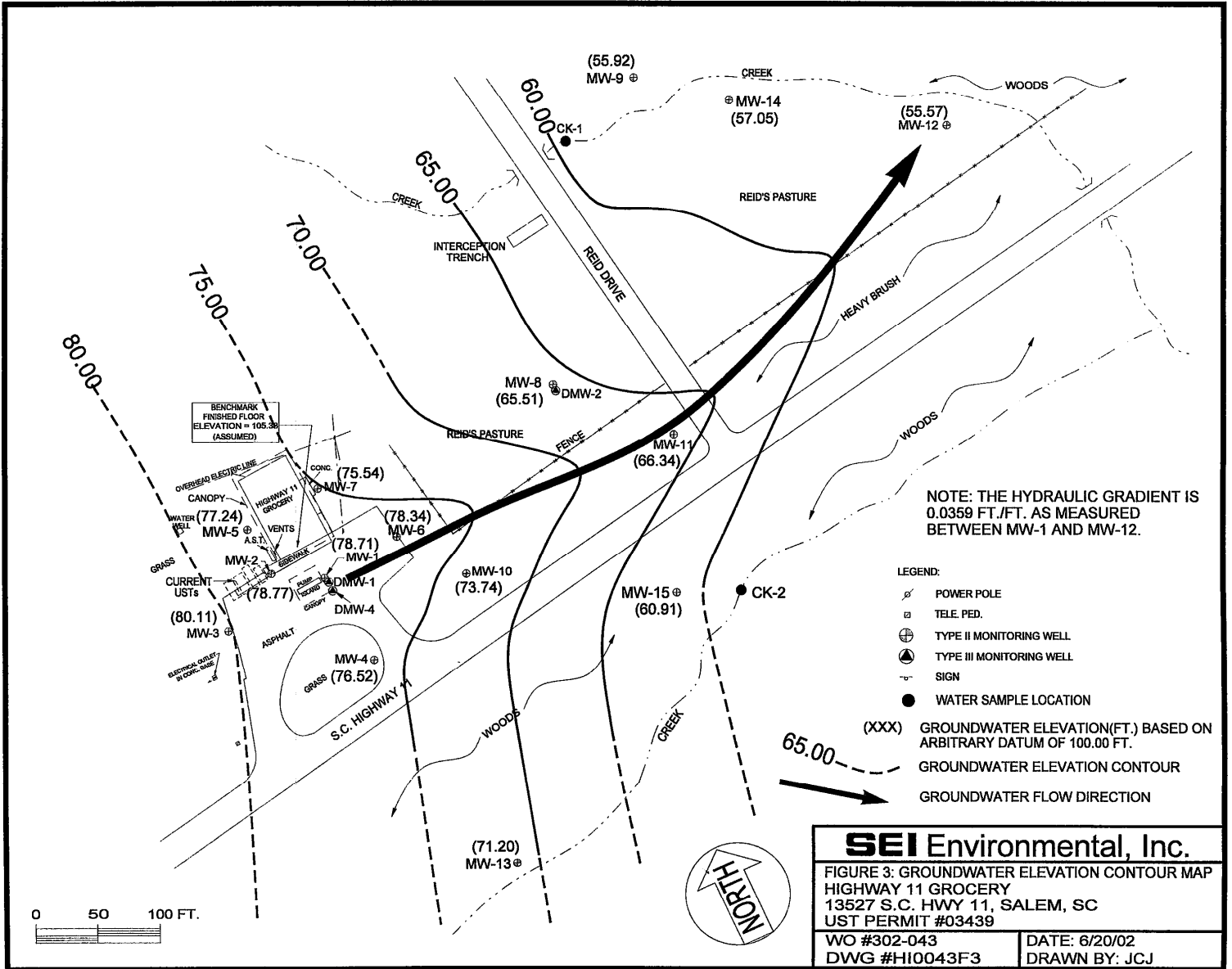
WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.88
MW-8	88.61
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.81
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

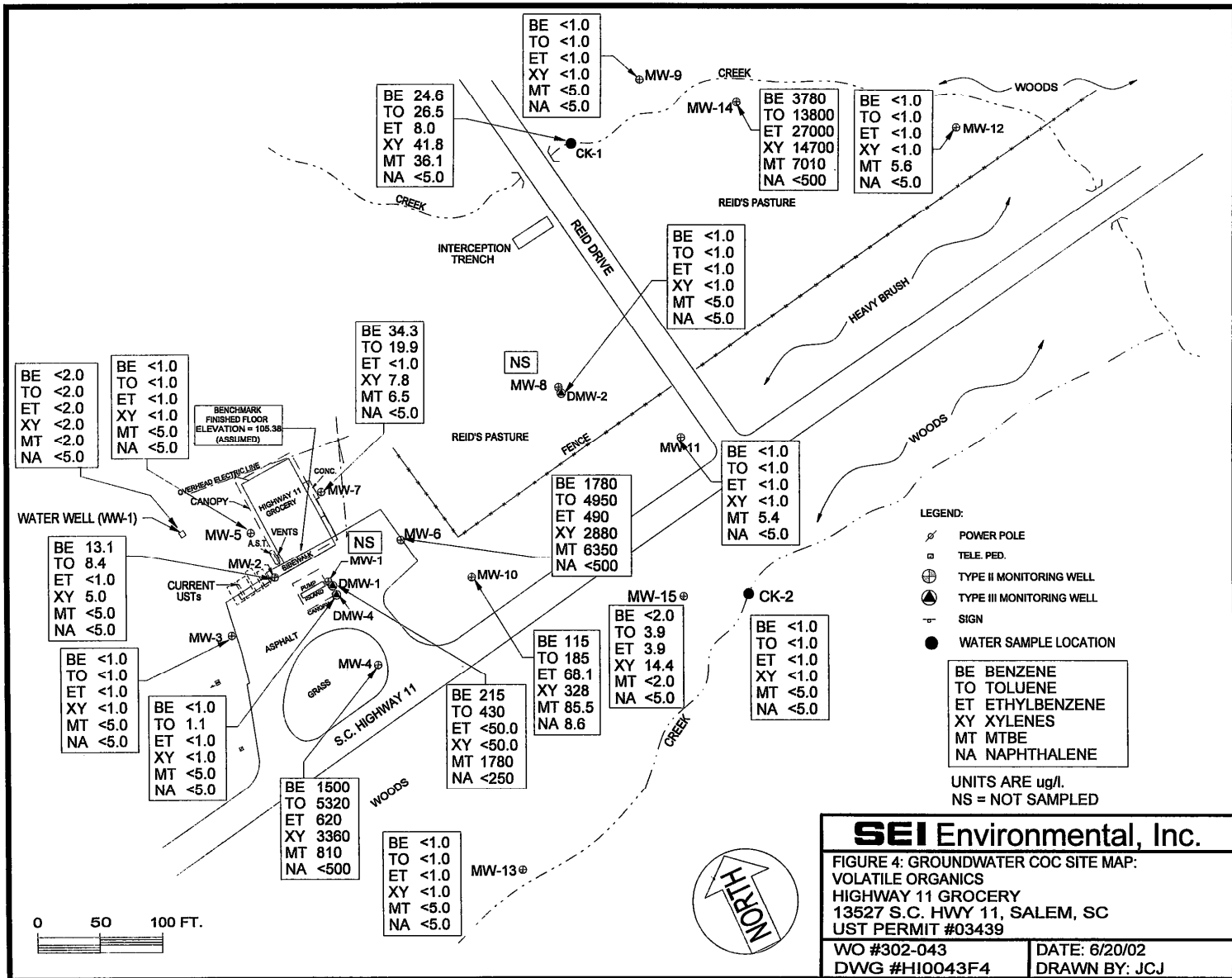
NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
FIGURE 2: SITE MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

WO #302-043	DATE: 5/31/02
DWG #HI0388F1	DRAWN BY: JCJ





BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT <5.0
NA <5.0

BE 3780
TO 13800
ET 27000
XY 14700
MT 7010
NA <500

BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT 5.6
NA <5.0

BE 24.6
TO 26.5
ET 8.0
XY 41.8
MT 36.1
NA <5.0

BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT <5.0
NA <5.0

BE 34.3
TO 19.9
ET <1.0
XY 7.8
MT 6.5
NA <5.0

NS
MW-8

BE <2.0
TO <2.0
ET <2.0
XY <2.0
MT <2.0
NA <5.0

BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT <5.0
NA <5.0

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)

BE 1780
TO 4950
ET 490
XY 2880
MT 6350
NA <500

BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT 5.4
NA <5.0

BE 13.1
TO 8.4
ET <1.0
XY 5.0
MT <5.0
NA <5.0

BE <1.0
TO 1.1
ET <1.0
XY <1.0
MT <5.0
NA <5.0

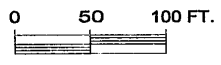
BE 215
TO 430
ET <50.0
XY <50.0
MT 1780
NA <250

BE <2.0
TO 3.9
ET 3.9
XY 14.4
MT <2.0
NA <5.0

BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT <5.0
NA <5.0

BE 1500
TO 5320
ET 620
XY 3360
MT 810
NA <500

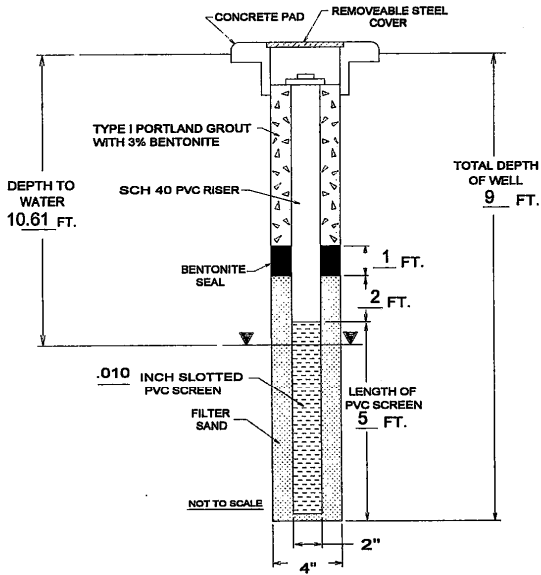
BE <1.0
TO <1.0
ET <1.0
XY <1.0
MT <5.0
NA <5.0



APPENDIX A
Monitor Well Construction Logs

Boring Log and Type II Well Construction Details

WELL IDENTIFICATION: MW-15 DATE DRILLED: 5/6/02
 STATE PERMIT #: 03439 WORK ORDER #: 302-043
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13527 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 71.52 LAND SURFACE ELEV.: N/D

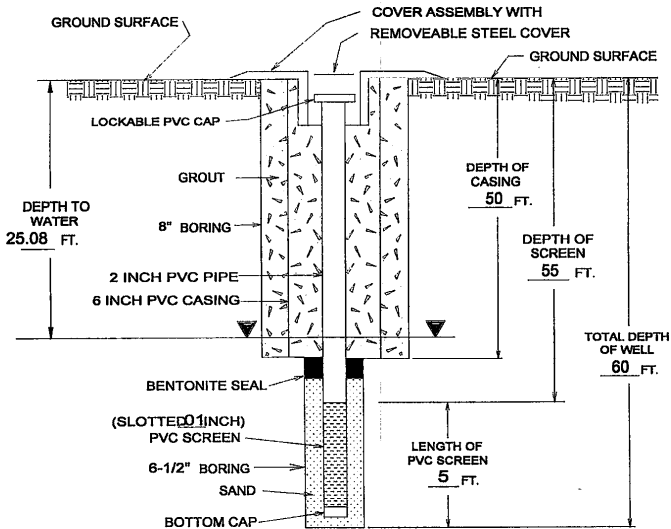


DRILLING METHOD: HAND AUGER
 SAMPLING METHOD: GRAB
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010 INCH
 COMMENTS: _____
TOP OF CASING ELEVATION IS REFERENCED TO AN ASSUMED ELEVATION.
N/D = NOT DETERMINED
NA = NOT APPLICABLE
 NOTE: THIS IS AN ABOVE GRADE MONITOR WELL.

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	0.0	SP	GRAY, SOFT, VERY FINE TO MEDIUM-GRAINED SAND; DAMP
10		ND	ND	NA	NA	ROCK
15						
20						
25						
30						
35						
40						

Boring Log and Type III Well Construction Details

WELL IDENTIFICATION: DMW-4 DATE DRILLED: 5/6/02-5/7/02
 STATE PERMIT #: 03439 WORK ORDER #: 302-043
 PROJECT NAME: HIGHWAY 11 GROCERY
 SITE ADDRESS: 13527 S.C. HWY 11, SALEM, SC
 LATITUDE: N/D LONGITUDE: N/D
 TOP OF CASING ELEV.: 103.22 LAND SURFACE ELEV.: N/D



DRILLING METHOD: AIR ROTARY
 SAMPLING METHOD: GRAB
 GRAVEL PACK SIZE: 20/30 SILICA SAND
 SLOT SIZE: 0.010"
 COMMENTS:
 TOP OF CASING ELEVATION IS REFERENCED TO AN ASSUMED ELEVATION.
 N/D= NOT DETERMINED
 NA = NOT APPLICABLE

DEPTH	SAMPLE NUMBER	BLOW COUNT	RECOVERY	OVA (ppm)	UNIFIED METHOD	DESCRIPTIVE LOG
5		ND	ND	ND	SW	TAN, SOFT, MEDIUM-GRAINED SAND
10		ND	ND	ND	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE
15		ND	ND	ND	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETROLEUM ODOR
20		ND	ND	ND	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETROLEUM ODOR
25		ND	ND	ND	ML	GRAY, STIFF, MEDIUM-GRAINED SAPROLITE, STRONG PETROLEUM ODOR
30		ND	ND	ND	NA	ROCK
35		ND	ND	ND	NA	ROCK
40		ND	ND	ND	NA	ROCK
45		ND	ND	ND	NA	ROCK
50		ND	ND	ND	NA	ROCK
55		ND	ND	ND	NA	ROCK
60		ND	ND	ND	NA	ROCK
65						

APPENDIX B

Monitor Well Abandonment Record

APPENDIX C
Groundwater Sampling Field Measurements

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 5-7-02

Field Personnel: Marc McFarland

General Weather Conditions: Sunny - Hot

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Grocery

Site ID#: 302043 Monitoring Well # mwl

Water Supply Well _____ Public — Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .04 feet

Depth to Ground Water (DGW) 24.70 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 5.3 feet

1 casing volume (CV=LWC X C) = _____ X .163 = 0.86 gals

3 casing volume (3 X CV) = 2.6 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Free Product

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAR, WARM

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MW2
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 26.08 feet
 Total Well Depth (TWD) 35.0 feet
 Length of the water column (LWC=TWD-DGW) 8.92 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.45 gals
 3 casing volume (3 X CV)= 4.35 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 4.35 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1145</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: PETRO OIL

South Carolina Department of Health and Environmental Control
 Bureau of Land and Waste Management Underground Storage Tank Program
 Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAN, WARM

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MW3
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 24.78 feet
 Total Well Depth (TWD) 30.0 feet
 Length of the water column (LWC=TWD-DGW) 5.22 feet

1 casing volume (CV=LWC X C)= _____ X _____ = .85 gals
 3 casing volume (3 X CV)= 2.55 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 2.0 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1155</u>
pH (s.u.)	<u>8.30</u>	<u>6.56</u>	<u>5.32</u>				<u>4.80</u>
Specific Conductivity (µmhos/cm)	<u>.028</u>	<u>.024</u>	<u>.021</u>				<u>.019</u>
Water Temperature (°C)	<u>18.9</u>	<u>18.5</u>	<u>17.8</u>				<u>17.7</u>
Dissolved Oxygen	<u>6.87</u>	<u>5.97</u>	<u>6.24</u>				<u>6.82</u>
PID readings, if required							

Remarks: BASED ON SLOW RECHARGE

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAR, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MWS
 Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 28.82 feet
 Total Well Depth (TWD) 35.0 feet
 Length of the water column (LWC=TWD-DGW) 6.18 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.01 gals
 3 casing volume (3 X CV)= 3.03 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1220</u>
pH (s.u.)	<u>4.91</u>	<u>4.49</u>	<u>4.34</u>	<u>4.15</u>			<u>4.12</u>
Specific Conductivity (µmhos/cm)	<u>.015</u>	<u>.016</u>	<u>.016</u>	<u>.015</u>			<u>.015</u>
Water Temperature (°C)	<u>18.7</u>	<u>18.4</u>	<u>17.9</u>	<u>17.8</u>			<u>19.1</u>
Dissolved Oxygen	<u>7.52</u>	<u>7.13</u>	<u>7.18</u>	<u>7.35</u>			<u>7.23</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 5-7-02

Field Personnel: _____

General Weather Conditions: same

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Gmc.

Site ID#: 302043 Monitoring Well # mw16

Water Supply Well Public Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 21.66 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 13.34 feet

1 casing volume (CV=LWC X C) = _____ X .163 = 2.17 gals

3 casing volume (3 X CV) = 6.52 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: odor

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAR, WARM

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MW7
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 28.12 feet
 Total Well Depth (TWD) 40.0 feet
 Length of the water column (LWC=TWD-DGW) 11.88 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.94 gals
 3 casing volume (3 X CV) = 5.82 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.82 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1245</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 5-7-02

Field Personnel: _____

General Weather Conditions: same

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Area

Site ID#: 302043 Monitoring Well # mws

Water Supply Well Public Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .06 feet

Depth to Ground Water (DGW) 21.05 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 8.95 feet

1 casing volume (CV=LWC X C)= _____ X .163 = 1.46 gals

3 casing volume (3 X CV) = 4.38 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: odor

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAR, WARM

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MW9
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 2.47 feet
 Total Well Depth (TWD) 12.0 feet
 Length of the water column (LWC=TWD-DGW) 9.53 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.55 gals
 3 casing volume (3 X CV) = 4.65 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1400</u>
pH (s.u.)	<u>4.88</u>	<u>4.77</u>	<u>4.76</u>	<u>4.78</u>			<u>4.79</u>
Specific Conductivity (µmhos/cm)	<u>1027</u>	<u>1030</u>	<u>1031</u>	<u>1029</u>			<u>1030</u>
Water Temperature (°C)	<u>17.2</u>	<u>17.2</u>	<u>16.8</u>	<u>16.6</u>			<u>17.4</u>
Dissolved Oxygen	<u>7.99</u>	<u>5.66</u>	<u>4.41</u>	<u>5.25</u>			<u>5.19</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 5-7-02

Field Personnel: _____

General Weather Conditions: S a m e

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Groc.

Site ID#: 302043 Monitoring Well # MW10

Water Supply Well _____ Public Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 20.04 feet

Total Well Depth (TWD) 24 feet

Length of the water column (LWC=TWD-DGW) 3.96 feet

1 casing volume (CV=LWC X C) = _____ X 0.65 = 0.65 gals

3 casing volume (3 X CV) = 1.94 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: odor

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 5-7-02

Field Personnel: _____

General Weather Conditions: same

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Groc

Site ID#: 302043 Monitoring Well # mw11

Water Supply Well Public Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 116.86 feet

Total Well Depth (TWD) 23 feet

Length of the water column (LWC=TWD-DGW) 6.14 feet

1 casing volume (CV=LWC X C) = _____ X 0.163 = 1.0 gals

3 casing volume (3 X CV) = 3.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: odor

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAR, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MW12
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 3.12 feet

Total Well Depth (TWD) 12.0 feet

Length of the water column (LWC=TWD-DGW) 8.88 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.45 gals
 3 casing volume (3 X CV) = 4.35 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1405</u>
pH (s.u.)	<u>6.80</u>	<u>5.41</u>	<u>4.87</u>	<u>4.52</u>			<u>4.42</u>
Specific Conductivity (µmhos/cm)	<u>.674</u>	<u>.025</u>	<u>.025</u>	<u>.024</u>			<u>.024</u>
Water Temperature (°C)	<u>18.0</u>	<u>15.6</u>	<u>15.2</u>	<u>14.8</u>			<u>16.0</u>
Dissolved Oxygen	<u>1.73</u>	<u>2.40</u>	<u>3.02</u>	<u>3.56</u>			<u>4.81</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02

Field Personnel: J. WEYAND, J. MONEGHAN

General Weather Conditions: CLEAR, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC

Site ID#: 302043 Monitoring Well # MW13

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 6.52 feet

Total Well Depth (TWD) 12.0 feet

Length of the water column (LWC=TWD-DGW) 5.48 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .89 gals

3 casing volume (3 X CV) = 2.67 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1245</u>
pH (s.u.)	<u>5.35</u>	<u>5.36</u>	<u>5.14</u>	<u>4.93</u>			<u>4.81</u>
Specific Conductivity (µmhos/cm)	<u>.038</u>	<u>.037</u>	<u>.037</u>	<u>.035</u>			<u>.038</u>
Water Temperature (°C)	<u>15.9</u>	<u>14.8</u>	<u>14.5</u>	<u>14.5</u>			<u>15.1</u>
Dissolved Oxygen	<u>8.11</u>	<u>8.35</u>	<u>7.57</u>	<u>6.72</u>			<u>7.05</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAN, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # MW15
 Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 10.61 feet
 Total Well Depth (TWD) 9.0 + 3.5 feet
 Length of the water column (LWC=TWD-DGW) 1.89 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .31 gals
 3 casing volume (3 X CV) = .93 gals (standard purge volume)

Total Volume of Water Purged Before Sampling .25 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1320</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Petroleum odor, well not recharging - insufficient volume

Field Data Information Sheet for Ground-Water Sampling
 South Carolina Department of Health and Environmental Control
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 6/10/02
 Field Personnel: H. Surley
 General Weather Conditions: Clear

Ambient Air Temperature: 90 °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Amoco Hwy 11
 Site ID#: 30088 Monitoring Well # MW-15

Well Diameter (D): 2 1/2" feet

Conversion factor (C): 3.14 X (D/2)² for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 8 feet
 Total Well Depth (TWD) 9 feet
 Length of the water column (LWC = TWD - DGW) _____ feet

1 casing volume (CV = LWC X C) = _____ X _____ = _____ gals
 3 casing volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

* If free product is present over 1/8 inch, sampling will not be required.

	Initial	1 st Vol	2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post sampling
Cumulative Volume Purged (gallons)							
Time (military)							
pH (s.u.)							<u>13.30</u>
Specific Cond. (µmhos/cm)							
Water Temperature (°C)							
Turbidity (subjective : clear, slightly cloudy, cloudy)							
Dissolved Oxygen							
PID readings, if required							

Remarks: petroleum odor smell in Creeks 1, 2, 3 & across the Rd by MW-15

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAN, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # DMW1
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 24.68 feet

Total Well Depth (TWD) 45.0 feet

Length of the water column (LWC=TWD-DGW) 20.32 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 3.31 gals
 3 casing volume (3 X CV) = 9.93 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 9.93 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1215</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02
 Field Personnel: J. WEYAND, J. MONEGHAN
 General Weather Conditions: CLEAN, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 GROC
 Site ID#: 302043 Monitoring Well # DMW2
 Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 17.22 feet
 Total Well Depth (TWD) 75.0 feet
 Length of the water column (LWC=TWD-DGW) 57.78 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 9.42 gals
 3 casing volume (3 X CV) = 28.26 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 14.0 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1345</u>
pH (s.u.)	<u>6.71</u>	<u>7.87</u>					<u>7.44</u>
Specific Conductivity (µmhos/cm)	<u>160</u>	<u>1126</u>					<u>.095</u>
Water Temperature (°C)	<u>19.0</u>	<u>17.9</u>					<u>17.8</u>
Dissolved Oxygen	<u>2.74</u>	<u>6.78</u>					<u>6.11</u>
PID readings, if required							

Remarks: BAILED ONLY

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02

Field Personnel: J. WEYAND, J. MONEGHAN

General Weather Conditions: CLEAR, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. _____	Conductivity Meter serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 GROC

Site ID#: 302043 Monitoring Well # DMW4

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 25.08 feet

Total Well Depth (TWD) 60.0 feet

Length of the water column (LWC=TWD-DGW) 34.92 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 5.69 gals

3 casing volume (3 X CV) = 17.07 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>11:35</u>
pH (s.u.)	<u>10.06</u>	<u>10.67</u>	<u>10.15</u>	<u>9.62</u>			<u>9.50</u>
Specific Conductivity (µmhos/cm)	<u>.375</u>	<u>.537</u>	<u>.358</u>	<u>.194</u>			<u>.181</u>
Water Temperature (°C)	<u>27.5</u>	<u>21.2</u>	<u>20.7</u>	<u>19.7</u>			<u>19.6</u>
Dissolved Oxygen	<u>6.45</u>	<u>6.49</u>	<u>6.32</u>	<u>7.43</u>			<u>7.80</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 05/08/02

Field Personnel: J. WEYAND, J. MONEGHAN

General Weather Conditions: CLEAN, WINDY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	standard _____
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: HWY 11 GROC

Site ID#: 302043 Monitoring Well # CK-2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): _____ feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) _____ feet

Total Well Depth (TWD) _____ feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals

3 casing volume (3 X CV) = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1330
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

APPENDIX D

Groundwater Laboratory Analytical Results and Chain-of-Custody

APPENDIX E
Disposal Manifest

Please print or type
 (Form designed for use on site (12 pitch typewriter))

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. GK4448	2. Page 1 of	03-14-02
-------------------------------------	---------------------------------------	---------------------------------	--------------	----------

3. Generator's Name and Mailing Address SEI ENVIRONMENTAL, INC 3021 MCNAUGHTON DR SUITE 9 COLUMBIA, SC 29223	
4. Generator's Phone ()	
5. Transporter 1 Company Name SEI ENVIRONMENTAL, INC	6. US EPA ID Number
7. Transporter 2 Company Name	8. US EPA ID Number
9. Designated Facility Name and Site Address G & K TANK SERVICES PO BOX 1384 SUMTER, SC 29151	10. US EPA ID Number
	A. Transporter's Phone 803-788-2535
	B. Transporter's Phone
	C. Facility's Phone 800-800-6840

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NON HAZARDOUS PETROLEUM CONTAMINATED BOOMS HWY 11 GROCERY SALEM, SC	02	DR		
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
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Marc L. McFarland	Signature <i>[Signature]</i>	Month	Day	Year
		3	14	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

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 S. Solter	Signature <i>[Signature]</i>	Month	Day	Year
		03	14	02

GENERATOR

TRANSPORTER

FACILITY



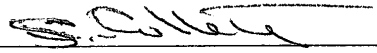
Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 2 Drums
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminanted Booms

This is to certify the above ~~soil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by 

Date 03/14/02

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest
Document No.
GR459

2. Page 1
of

05-08-02

3. Generator's Name and Mailing Address
SET ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name
SET ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone
803-780-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

US EPA ID Number

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

12. Containers

13. Total
Quantity

14. Unit
Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED BOOMS
HWY 11 GROCERY SALEM, SC

No. Type
01DR

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

No. Type
01DR

d. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
PANTRY 589 MAULDIN, SC

No. Type
01DR

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

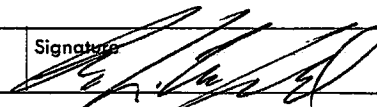
17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Marc L. McFarland



5 8 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

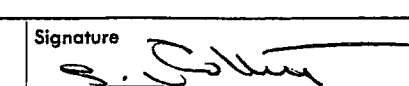
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

S. Solley



05 08 02

ORIGINAL - RETURN TO GENERATOR



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 1 Drum
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ~~soil~~^{water} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by *S. Polkey*

Date 05/08/02



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 1 Drum
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Booms

This is to certify the above ^{booms} ~~soil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. [Signature]

Date 05/08/02

MATERIAL MANIFEST	JBR Environmental Services P. O. Box 4098 Spartanburg, SC 29305	Manifest Document No. D-0514381
		Page 1 of 1
		Job No. D-0514381

Emergency Phone Number: (864) 583-2717

GENERATOR INFORMATION

Name: SEI Environmental	US EPA ID No.
Street Address 13527 Hwy 11 Salem, SC	Mailing Address 3001 N.E. Naughton Dr. St. 9 Columbia, SC 29223
Phone No. (803) 788-2535	Contact Bob Bolton

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/N A ID No.	Packing Group	Containers		Total Quantity	Unit Wt./Vol.
						Qty	Type		
a.		Non-regulated solid, nos				5	DM		
b.		Non-regulated liquid, nos				2	DM		
c.									

ADDITIONAL INFORMATION

	ERG No.	JBR Profile Code	Facility Use
a. Soil		22-0301053	Approved for incineration
b. Water handling		22-0301054	Approved for incineration
c.			

GENERATORS CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name Steve Smith	Signature <i>Steve Smith</i>	Mo./Day/Yr. 5/14/02
-----------------------------------	---------------------------------	------------------------

TRANSPORTER INFORMATION

Transporter JBR Environmental Services	I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.	
Address 210 Alice Street Spartanburg, SC 29303	Signature <i>[Signature]</i>	Shipment Date 5/14/02
Transporter or EPA ID No. SCR000004358	Unit No.	I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.
Phone 864-583-2717		Signature <i>[Signature]</i>
		Delivery Date 5/14/02

FACILITY INFORMATION

Facility JBR Environmental Services	I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.		
Address 210 Alice Street Spartanburg, SC 29303	Signature <i>Mark A. Schoolcraft</i>	Receipt Date 5/14/02	
Facility or EPA ID No. SCR000004358	Discrepancies	Routing Codes	Handling Methods.
Phone 864-583-2717	a.	WM3219	
Contact Rex Russell	b.		
	c.		

SEI
Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

October 29, 2003

Konstantine Akhvlediani
Project Manager / Hydrogeologist
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

Re: Summary of Corrective Action and Gauging Results
September & October 2003
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #: 03439

Dear Mr. Akhvlediani:

SEI Environmental, Inc. (SEI) submits the following summary of the corrective action and gauging results for the months of September & October 2003. Attached, Appendix A, are a topographic map depicting the location of the site and Figure 2, a site map illustrating the location of the monitoring wells.

September 4, 2003, SEI personnel conducted free product extraction from two (2) monitoring wells, MW-1, and MW-8 at the above referenced facility. The two (2) monitoring wells, MW-1 and MW-8, were extracted on because MW-1 was observed to have 0.15 feet of product and MW-8 was observed to have 0.13 feet of product. 260.24 gallons of petroleum-impacted water were generated during the extraction and were later disposed at G & K Tank Services, Inc; located in Sumter, South Carolina on September 5, 2003. Attached in Appendix B is a copy of the Non Hazardous Waste Manifest and Certificate of Disposal. Appendix C is a copy of the field screening data obtained from the free product extraction

September 15, 2003 SEI personnel were at the above referenced facility and conducted gauging of eighteen (18) monitoring wells. The findings of the gauging event were that MW-1, and MW-8 were found to have presence of free phased product. Free product was observed in MW-1, at a depth of 0.04 feet and MW-8, at a depth of 0.15 feet, a total

RECEIVED

OCT 31 2003

UNDERGROUND STORAGE
TANK PROGRAM

31-Tech

thickness of 0.19 feet. The remaining sixteen (16) monitoring wells were found not to have the presence of free product. Attached in Appendix D are Table 1, which summarizes the September 15, 2003 gauging activities and Table 2, which summarizes the September 15, 2003 depth of free product. One (1) absorbent was placed in each monitoring well, MW-1 & MW-8, for removal of the remaining free phased free product.

October 2, 2003 SEI personnel were at the above referenced facility and conducted gauging of eighteen (18) monitoring wells. The findings of the gauging event were that MW-1, and MW-8 were found to have presence of free phased product. Free product was observed in MW-1, at a depth of 0.13 feet and MW-8, at a depth of 0.20 feet, a total thickness of 0.33 feet. The remaining sixteen (16) monitoring wells were found not to have the presence of free product. Attached in Appendix E are Table 3, which summarizes the October 2, 2003 gauging activities and Table 4, which summarizes the October 2, 2003 depth of free product. SEI personnel removed the absorbents in MW-1 & MW-8 and then removed the product via a bailer, with a total accumulation of one drum of petroleum-impacted water. The drum of petroleum-impacted water with the absorbents was transported off site to be transported to a disposal facility.

October 3, 2003, SEI personnel transported the drum of petroleum-impacted water was taken to G & K Disposal facility, located in Sumter South Carolina. Attached in Appendix F are copies of the Non-Hazardous Waste Manifest and Certificate Disposal.

October 14, 2003, SEI personnel conducted free product extraction from four (4) monitoring wells, MW-1, MW-8, DMW-1, and DMW-2 at the above referenced facility. 198.0 gallons of petroleum-impacted water were generated during the extraction and were later disposed at G & K Tank Services, Inc; located in Sumter, South Carolina on October 15, 2003. Attached in Appendix G is a copy of the Non- Hazardous Waste Manifest and Certificate of Disposal. Appendix H is a copy of the field screening data obtained from the free product extraction.

October 23, 2003 SEI personnel were at the above referenced facility and conducted gauging of eighteen (18) monitoring wells. The findings of the gauging event were that MW-1, and MW-8 were found to have presence of free phased product. Free product was observed in MW-1, at a depth of 0.21 feet and MW-8, at a depth of 0.02 feet, a total thickness of 0.23 feet. The remaining sixteen (16) monitoring wells were found not to have the presence of free product. SEI personnel removed the product via a bailer, with a total accumulation of one drum of petroleum-impacted water. The drum of petroleum-impacted water was transported off site to be transported to a disposal facility. Attached in Appendix I is Table 5, summarizing the October 22, 2003 gauging activities and Table 6, summary of the October 22, 2003 free product thickness.

October 24, 2003, SEI personnel transported the drum of petroleum-impacted water was taken to G & K Disposal facility, located in Sumter South Carolina. Attached in Appendix J are copies of the Non-Hazardous Waste Manifest and Certificate Disposal.




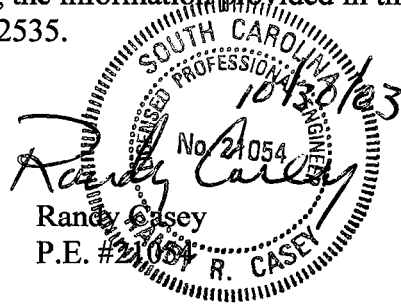
Environmental, Inc.

SEI has scheduled the next site visit in November 2003, which will include the extraction and disposal of petroleum-impacted water. A subsequent report will be submitted, which will summarize the extraction and disposal of the petroleum-impacted water and subsequent gauging of the monitoring wells. If no free product is observed in the monitoring wells, SEI will conduct gauging, field screening, purging and collection of samples and submit a

If you have any questions and / or comments, concerning the information provided in this document, please contact John Paul Bekish at (803) 788-2535.

Sincerely,

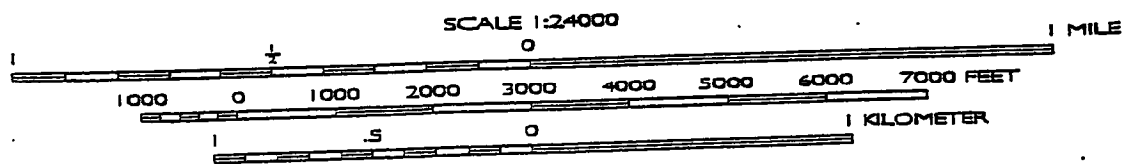
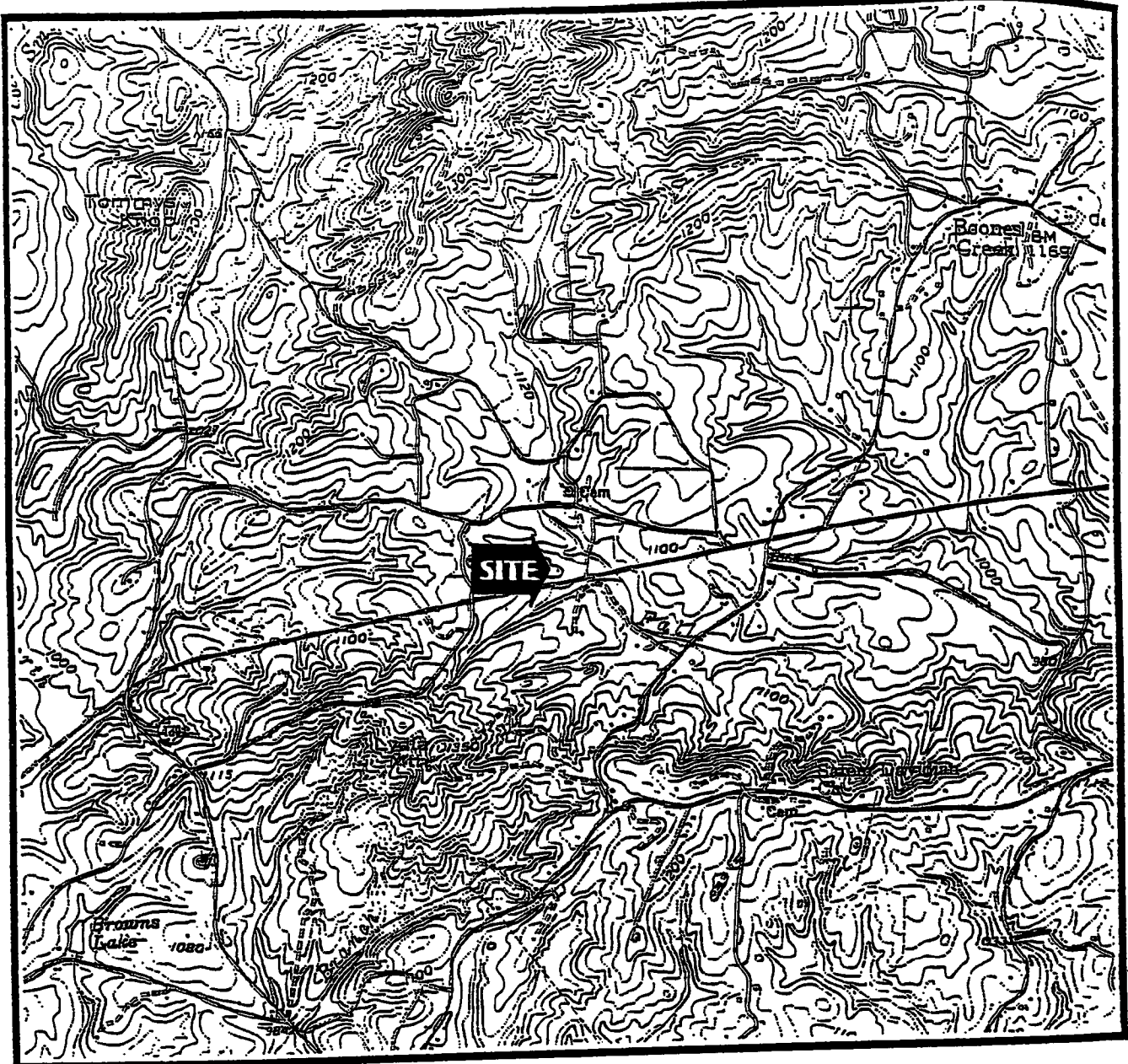

John Paul Bekish
Branch Manager
SEI- Columbia Office



Attachment(s)

cc: Highway 11 Grocery – Property Owner
SEI Project Files

Appendix A
Figure 1 - Topographic Map
&
Figure 2 - Site Map



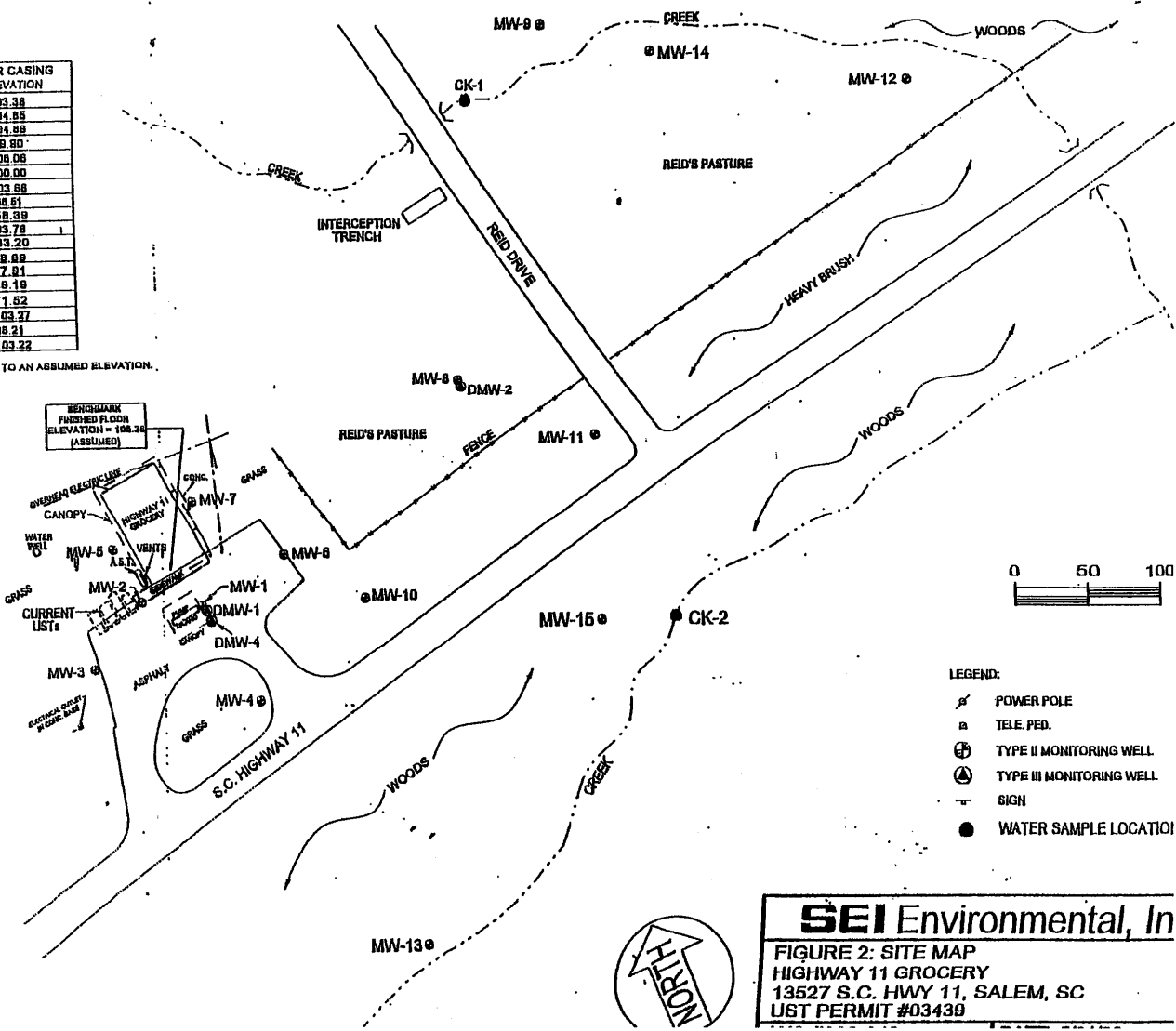
SEI Environmental, Inc

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: IC
--------------------------	------------------------------

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	98.80
MW-5	108.06
MW-6	100.00
MW-7	103.66
MW-8	88.81
MW-9	88.99
MW-10	83.79
MW-11	83.20
MW-12	68.69
MW-13	77.81
MW-14	59.19
MW-15	71.62
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
FIGURE 2: SITE MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

Appendix B
September 5, 2003 Non Hazardous Waste Manifest
&
Certificate of Disposal

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. GK5916

2. Page 1 of 6

09/05/03

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name
SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone
803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICES
PO BOX 1384
SUMMER, SC 29151
US EPA ID Number
. 987573557

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

12. Containers	13. Total Quantity	14. Unit Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

260.24 gal

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
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name JEFF WEYAND	Signature <i>Jeff Weyand</i>	Month	Day	Year
		9	5	03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

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 S. Polley	Signature <i>S. Polley</i>	Month	Day	Year
		9	5	03

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 260.24 gallons
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ^{water} ~~soil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by *S. Riley*

Date 09/05/03

Appendix C
September 4, 2003 Summary of Field Screening Data

Appendix D

**Table 1 - Summary of September 15, 2003 Gauging Activities
&**

Table 2 - Summary of September 15, 2003 Depth of Free Product

Table 1
Summary of Free Product Gauging on September 15, 2003
Highway 11
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Date	Depth to Water (Feet)	Depth to Free Product (Feet)	Total Volume Free Product (Feet)
MW-1	9/15/2003	23.78	23.74	0.04
MW-2	9/15/2003	24.73	0.00	0.00
MW-3	9/15/2003	23.23	0.00	0.00
MW-4	9/15/2003	22.90	0.00	0.00
MW-5	9/15/2003	27.40	0.00	0.00
MW-6	9/15/2003	20.63	0.00	0.00
MW-7	9/15/2003	26.83	0.00	0.00
MW-8	9/15/2003	21.17	21.02	0.15
MW-9	9/15/2003	2.42	0.00	0.00
MW-10	9/15/2003	16.53	0.00	0.00
MW-11	9/15/2003	16.21	0.00	0.00
MW-12	9/15/2003	3.19	0.00	0.00
MW-13	9/15/2003	6.62	0.00	0.00
MW-14	9/15/2003	2.03	0.00	0.00
MW-15	9/15/2003	11.02	0.00	0.00
DMW-1	9/15/2003	23.61	0.00	0.00
DMW-2	9/15/2003	15.75	0.00	0.00
DMW-4	9/15/2003	23.88	0.00	0.00

Table 2
Free Product Thickness Reduction September 25, 2003
Highway 11
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

Monitor Well	Free Product Thickness Feet
MW-1	0.04
MW-8	0.15
Total Target Thickness (Feet)	0.00
Total Initial Thickness Above Target (Feet)	0.19

Appendix E

Table 3 – Summary of October 2, 2003 Gauging Activities
&

Table 4 - Summary of October 2, 2003 Depth of Free Product

Table 3
Summary of Free Product Gauging on October 2, 2003
Highway 11
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Date	Depth to Water (Feet)	Depth of Well (Feet)	Depth to Free Product (Feet)	Total Volume Free Product (Feet)
MW-1	10/2/2003	24.32	30.00	24.19	0.13
MW-2	10/2/2003	25.56	35.00	0.00	0.00
MW-3	10/2/2003	23.87	30.00	0.00	0.00
MW-4	10/2/2003	23.32	35.00	0.00	0.00
MW-5	10/2/2003	27.92	35.00	0.00	0.00
MW-6	10/2/2003	21.34	35.00	0.00	0.00
MW-7	10/2/2003	27.69	40.00	0.00	0.00
MW-8	10/2/2003	20.44	30.00	20.24	0.20
MW-9	10/2/2003	2.16	12.00	0.00	0.00
MW-10	10/2/2003	20.19	24.00	0.00	0.00
MW-11	10/2/2003	17.58	23.00	0.00	0.00
MW-12	10/2/2003	2.97	12.00	0.00	0.00
MW-13	10/2/2003	7.51	12.00	0.00	0.00
MW-14	10/2/2003	1.58	10.00	0.00	0.00
MW-15	10/2/2003	11.88	N/A	0.00	0.00
DMW-1	10/2/2003	24.11	45.00	0.00	0.00
DMW-2	10/2/2003	17.11	75.00	0.00	0.00
DMW-4	10/2/2003	24.39	60.00	0.00	0.00

Notes: N/A = Not Applicable

Table 4
Free Product Thickness Reduction October 2, 2003
Highway 11
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

Monitor Well	Free Product Thickness Feet
MW-1	0.13
MW-8	0.20
Total Target Thickness (Feet)	0.00
Total Initial Thickness Above Target (Feet)	0.33

Appendix F
October 3, 2003 Non-Hazardous Waste Manifest
&
Certificate Disposal

37WP? **NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. Manifest Document No. 2. Page 1 of 10/03/03

3. Generator's Name and Mailing Address: SEI ENVIRONMENTAL, INC, 3021 MCNAUGHTON DR, SUITE 9, COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name: SEI ENVIRONMENTAL, INC 6. US EPA ID Number A. Transporter's Phone: 803-788-2535

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address: G & K TANK SERVICE, PO BOX 1384, SUMTER, SC 29151 9. US EPA ID Number C. Facility's Phone: 800-800-6840

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER PANTRY #273 MYRTLE BEACH, SC	05	DM		
b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER PANTRY #3140 LITTLE RIVER, SC	01	DM		
c.				
d. NON HAZARDOUS PETROLEUM CONTAMINATED WATER HWY 11 GROCERY SALEM, SC	01	DM		

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JOHN MONEGAN Signature: [Signature] Month Day Year: 10/03/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

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: S. Collett Signature: [Signature] Month Day Year: 10/03/03

GENERATOR TRANSPORTER FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 1 Drum
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ^{water} ~~soil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. [Signature]

Date 10/03/03

Appendix G
October 15, 2003 Non Hazardous Waste Manifest
&
Certificate of Disposal

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. GK6039

2. Page 1 of

10/15/03

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR, SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name

SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone
800-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151
US EPA ID Number
987573557

C. Facility's Phone
800-800-6840

11. Waste Shipping Name and Description

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
		198.	gals
..
..
..
..

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 198.0 gallons
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ^{water} ~~oil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by *S. [Signature]* Date 10/15/03

Appendix H
October 14, 2003 Copy of the Field Screening Data

vacuum Truck Work Sheet

Site name:

Location Hwy 11 Grocery Salem, S.C.

Total Hours Vac Event:

Date: 10-14-03

Points:

Time Start (hour)	Time interval (min)	CFM Exhaust (ft/min)	PID Reading (ppm)	Stack Temp °F	PSI	OIL TEMP °F	Total Gallons Extracted	MW-1 H ₂ O/Product depth	MW-8 H ₂ O/Product depth	MW- H ₂ O/Product depth
0945	0	0	0	ω / 0 0	0	0	0	24.41/24.51	23.34/23.32	
1015	15-30	400	50K+	98 / 172	25	166	30			
1045	15-30	225	50K+	95 / 136	25	168	35			
1115	15-30	250	50K+	94 / 128	27	168	75			
1145	15-30	300	50+	95 / 128	27	168	85			
1215	15-30	225	50K+	94 / 143	27	168	100			
1245	15-30	300	50K+	96 / 132	27	168	110			
1315	30	225	50K+	97 / 143	27	169	125			
1345	30	175	50K+	98 / 142	27	170	135			
1415	30	300	50K+	100 / 145	27	170	165			
1445	30	200	50K+	100 / 124	27	170	175			
1515	30	275	50K+	100 / 143	27	171	185			
1545	30	275	50K+	102 / 135	27	172	225	24.33	22.03/22.02	
	30							24.33/24.32		
	30									
	30									
	30									
	30									
	30									
	30									

DMW-1 ^{Before} 24.26 / ^{After} 24.33
 DMW-2 17.55

Appendix I

Table 5 – Summary of October 22, 2003 Gauging Activities
&

Table 6 - Summary of the October 22, 2003 Free Product Thickness

Table 5
Summary of Free Product Gauging on October 23, 2003
Highway 11
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Date	Depth to Water (Feet)	Depth of Well (Feet)	Depth to Free Product (Feet)	Total Volume Free Product (Feet)
MW-1	10/23/2003	24.72	30.00	24.51	0.21
MW-2	10/23/2003	25.71	35.00	0.00	0.00
MW-3	10/23/2003	24.23	30.00	0.00	0.00
MW-4	10/23/2003	23.69	35.00	0.00	0.00
MW-5	10/23/2003	28.40	35.00	0.00	0.00
MW-6	10/23/2003	21.74	35.00	0.00	0.00
MW-7	10/23/2003	28.10	40.00	0.00	0.00
MW-8	10/23/2003	21.54	30.00	21.52	0.02
MW-9	10/23/2003	2.42	12.00	0.00	0.00
MW-10	10/23/2003	20.51	24.00	0.00	0.00
MW-11	10/23/2003	17.83	23.00	0.00	0.00
MW-12	10/23/2003	3.50	12.00	0.00	0.00
MW-13	10/23/2003	6.78	12.00	0.00	0.00
MW-14	10/23/2003	2.67	10.00	0.00	0.00
MW-15	10/23/2003	11.07	N/A	0.00	0.00
DMW-1	10/23/2003	24.50	45.00	0.00	0.00
DMW-2	10/23/2003	17.63	75.00	0.00	0.00
DMW-4	10/23/2003	24.95	60.00	0.00	0.00

Notes: N/A = Not Applicable

Table 6
Free Product Thickness Reduction October 23, 2003
Highway 11
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

Monitor Well	Free Product Thickness Feet
MW-1	0.21
MW-8	0.02
Total Target Thickness (Feet)	0.00
Total Initial Thickness Above Target (Feet)	0.23

Appendix J

October 24, 2003 Non-Hazardous Waste Manifest and Certificate Disposal

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

10/24/03

GK6081

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR, SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name

SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone

803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

10. US EPA ID Number

987573557

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

12. Containers

13. Total Quantity

14. Unit Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
MORRIS MINI MART DENMARK, SC

01DM

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HOTSPOT #2995 SPARTANBURG, SC

01DM

c. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
Hwy 11 Grocery Salem, SC

01DM

d. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
MAINTENANCE DEPT OF ROCKHILL, SC

01DM

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Van Chisholm

Signature

Van Chisholm

Month Day Year

10 24 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

S. Solter

Signature

S. Solter

Month Day Year

10 24 03

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-4593 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 1 Drum
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ~~oil~~^{water} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. Soltner Date 10/24/03



Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800.377.2826
803.788.2535
Fax 788.2399

RECEIVED

DEC 14 2001

Underground Storage
Tank Program

December 10, 2001

Mr. Konstantine Akhvlediani, Hydrogeologist
SCDHEC - UST Program
Bureau of Land And Waste Management
2600 Bull Street
Columbia, South Carolina 29201

32-TECH

RE: Boom Replacement
Highway 11 Grocery
13527 North SC Highway 11
Salem, South Carolina
Oconee County
UST Permit #03439

Dear Mr. Akhvlediani:

Attached is a table indicating dates and activities associated with absorbent boom maintenance on Fall Creek, which is topographically down-gradient from Highway 11 Grocery. Approximately 0.66 tons of booms were properly disposed on June 21, 2001 at Richland County Landfill, Inc. in Elgin, South Carolina. Also, two 55-gallon drums of booms were properly disposed on October 21, 2001, at G & K Tank Services in Sumter, South Carolina. A copy of the disposal manifests are attached in Appendix A. A copy of the SCDHEC invoice with supporting documentation is presented in Appendix B.

Should you have any questions or require additional information, please contact Fred Lyke or me at 788-2535.

Sincerely,
SEI Environmental, Inc.

Robert G. Bolton, Jr.
Robert G. Bolton, Jr.
Project Manager

Enclosure

cc: Mr. Steve Smith, Highway 11 Grocery

Boom Maintenance Highway 11 Grocery/Salem, South Carolina	
Date	Activities
03/27/01	No replacement – turned booms over
04/02/01	Replaced 2 booms
04/10/01	Replaced 2 booms
04/16/01	Replaced 2 booms and added 4 booms to other areas of the creek
04/23/01	No replacement – turned booms over
04/30/01	Replaced 7 booms
05/21/01	No replacement – turned booms over
06/06/01	Added 3 booms to newly constructed interception trench and replaced 5 booms
06/27/01	No replacement – turned booms over
07/16/01	No replacement – turned booms over
08/03/01	Replaced 3 booms
09/13/01	No replacement – turned booms over
10/22/01	Replaced 4 booms
11/19/01	No replacement – turned booms over

Note: The 06/05/01 was not counted as a mobilization as SEI personnel were on-site for the interception trench construction.



APPENDIX A

Disposal Manifests



SPECIAL WASTE MANIFEST

WASTE ID # RC 0106014

APPROVAL EXPIRATION DATE:

JUNE 14, 2002

RICHLAND LANDFILL
A WASTE MANAGEMENT COMPANY

1047 Highway Church Road
Elgin, SC 29045
(803) 788-3054
(803) 736-0995 Fax

GENERATOR OF WASTE: HIGHWAY 11 GROCERY

CUSTOMER ACCOUNT: SEI ENVIRONMENTAL, INC. 820 - 158

LOCATION OF WASTE: SALEM, SOUTH CAROLINA

PHONE # 803 788-2535 CONTACT BRITT RANSOM

FAX # 803 788-2399

GENERATOR'S SIGNATURE _____ DATE: _____

TRANSPORTER OF WASTE SEI ENVIRONMENTAL INC.

DATE: 6-21-01 TRUCK NO. ONE TON

DRIVER'S SIGNATURE _____

**** TO BE COMPLETED BY RICHLAND LANDFILL ****

DISPOSAL SITE: RICHLAND LANDFILL, INC. - ELGIN SC

DESCRIPTION OF WASTE BOOMS, RESIDUAL (Five Drums, Unloaded)

TICKET NO.# 311682 TONNAGE 0.66

RECEIVED BY SX

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No.
 G&K 4117

2. Page 1
 of

3. Generator's Name and Mailing Address
 SEI Environmental
 3021 McNaughton Drive
 Columbia, SC

4. Generator's Phone ()

5. Transporter 1 Company Name
 G&K Tank Service

6. US EPA ID Number

A. Transporter's Phone
 803-494-4593

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
 G&K Tank Services
 Hwy 76/378 West
 Sumter, SC 29150

10. US EPA ID Number

C. Facility's Phone
 803-494-4593

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. NonHazardous Petroleum Contaminated Pads Highway 11 Grocery	2	DRM	. . . . .
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
		.	.	.

17. Transporter 1 Acknowledgement of Receipt of Materials	Signature	Month	Day	Year
(Printed/Typed Name) Henry D. Surles	Henry D. Surles	10	25	01

18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	Month	Day	Year
Printed/Typed Name		.	.	.

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
S. Collett	S. Collett	10	25	01

GENERATOR
 TRANSPORTER
 FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 2 Drums
Hwy 11 Grocery

Contaminant NonHazardous Petroleum
Contaminanted Absorbent Pads

This is to certify the above ~~soil~~^{pads} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. Siller

Date 10/25/01



APPENDIX B

SCDHEC Invoice

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control (DHEC)

Division of Underground Storage Tank Management

ASSESSMENT COMPONENT INVOICE

*****See back of form for instructions.*****

FACILITY ID # 03439 COUNTY Oconee
FACILITY NAME Highway 11 Grocery
STREET ADDRESS 13527 South Carolina Highway 11, Salem, South Carolina
INVOICE # 43092 Cost Proposal # 15116
For work performed during (specify time period) March 2001 to November 2001

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, and any other information I may be aware of, I believe that the submitted information is true, accurate, and complete. I further agree, in accordance with any DHEC demand letter, to promptly repay any overpayment received.

**Please fill out both the Contractor and Owner/Operator Sections (original signatures). Also, indicate the Payee by placing a check in the box next to the Contractor or Owner/Operator. **

X CONTRACTOR
Fred Lyke 56-1903158
Name (Type or Print) Federal Tax ID or Social Security Number, if Payee
SEI Environmental, Inc. 803-788-2535
Company Phone Number
3021 McNaughton Drive, Suite 9 Columbia SC 29223
Address City State Zip Code
Branch Manager
Signature (please use non-black ink), if Payee Title Date Signed

OWNER OR OPERATOR
Steve Smith
Name (Type or Print) Federal Tax ID or Social Security Number, if Payee
Highway 11 Grocery 864-944-0494
Company Phone Number
180 Shallowford Road Salem SC 29676
Address City State Zip Code
Signature (please use non-black ink) Title Date Signed

If payment is to be sent to an address other than above, please indicate below:

Name of Individual or Company (please print) Federal Tax ID or Social Security Number
Address (please print) City State Zip Code

Invoice Amount: \$4,552.85
Less Submitted/Paid
Well Drilling Costs: - \$ 0.00
Total Amount Requested: \$4,552.85

SCDHEC USE ONLY
\$
+ \$
= \$

Amount Requested is for Assessment activities as Defined in the SCDHEC Letter

ASSESSMENT COMPONENT COST AGREEMENT

SOUTH CAROLINA

**Department of Health and Environmental Control
Bureau of Underground Storage Tank Management**

State Underground Petroleum Environmental Response Bank Account

Site Name Highway 11 Grocery

Site ID # 03439

CP#

15516

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation*	<u>1</u>	x	\$100.00	\$ <u>\$0.00</u>
2. Receptor Survey*	_____	x	\$500.00	\$ <u>\$0.00</u>
3. Comprehensive Survey	_____	x	\$1,000.00	\$ <u>\$0.00</u>
4. Mob/Demob (List component #)				
A. Equipment	_____	x	\$500.00	\$ <u>\$0.00</u>
B. Personnel <u>18</u>	<u>13</u>	x	\$250.00	\$ <u>\$3,250.00</u>
5. Soil Borings (hand auger)*	_____	feet x	\$14.00	\$ <u>\$0.00</u>
6. Soil Borings (drilled) and Field Screening*	(includes collection and quantification)			
	_____	feet x	\$17.00	\$ <u>\$0.00</u>
7. Soil Leachability Model	_____	x	\$200.00	\$ <u>\$0.00</u>
8. Abandonment*	_____	feet x	\$4.00	\$ <u>\$0.00</u>
9. Well Installation*	(includes drilling costs)			
A. Water Table (hand auger)	_____	feet x	\$20.00	\$ <u>\$0.00</u>
B. Water Table (drilled)	_____	feet x	\$38.00	\$ <u>\$0.00</u>
C. Telescoping	_____	feet x	\$58.00	\$ <u>\$0.00</u>
D. Rock Drilling	_____	feet x	\$58.00	\$ <u>\$0.00</u>
10. Sample Collection* Water or Vapor	_____	samples x	\$55.00	\$ <u>\$0.00</u>
11. Analyses-Groundwater	(See RA Guidance for site specific analyses)			
A. BTEX+Naph.+MTBE	_____	samples x	\$100.00	\$ <u>\$0.00</u>
B. BTEX+Naph.+MTBE+ Trimethylbenzene	_____	samples x	\$135.00	\$ <u>\$0.00</u>
C. PAH's	_____	samples x	\$120.00	\$ <u>\$0.00</u>
D. Lead	_____	samples x	\$20.00	\$ <u>\$0.00</u>
E. EDB	_____	samples x	\$55.00	\$ <u>\$0.00</u>
F. 8 RCRA Metals	_____	samples x	\$140.00	\$ <u>\$0.00</u>
G. TPH (9070)	_____	samples x	\$55.00	\$ <u>\$0.00</u>
H. pH	_____	samples x	\$10.00	\$ <u>\$0.00</u>
I. BOD	_____	samples x	\$40.00	\$ <u>\$0.00</u>
J. Nitrate	_____	samples x	\$20.00	\$ <u>\$0.00</u>
K. Sulfate	_____	samples x	\$20.00	\$ <u>\$0.00</u>
L. Ferrous Iron	_____	samples x	\$20.00	\$ <u>\$0.00</u>

Continue on back of page

ASSESSMENT COMPONENT COST AGREEMENT

11. Analyses-Soil				
M. BTEX + Naphth.	_____	samples	x	\$100.00 \$ _____ \$0.00
N. PAH's	_____	samples	x	\$120.00 \$ _____ \$0.00
O. 8 RCRA Metals	_____	samples	x	\$150.00 \$ _____ \$0.00
P. TPH (9071)	_____	samples	x	\$60.00 \$ _____ \$0.00
Q. TPH (3550)	_____	samples	x	\$65.00 \$ _____ \$0.00
R. Grain size / hydrometer	_____	samples	x	\$63.00 \$ _____ \$0.00
S. Total Organic Carbon	_____	samples	x	\$35.00 \$ _____ \$0.00
12. Aquifer Characterization*				
A. Pumping Test	_____	hours	x	\$120.00 \$ _____ \$0.00
B. Slug test	_____	tests	x	\$150.00 \$ _____ \$0.00
13. Free Product Recovery Rate Test*				
	_____	tests	x	\$120.00 \$ _____ \$0.00
14. Fate/Transport Modeling				
A. Mathematical Model	_____	models	x	\$300.00 \$ _____ \$0.00
B. Computer Model	_____	models	x	\$500.00 \$ _____ \$0.00
15. Risk Evaluation				
A. Tier I	_____		x	\$300.00 \$ _____ \$0.00
B. Tier II	_____		x	\$500.00 \$ _____ \$0.00
16. Subsequent Survey*				
	_____		x	\$260.00 \$ _____ \$0.00
17. Disposal*				
A. Wastewater				
1. Purging/Sampling	_____	drums	x	\$90.00 \$ _____ \$0.00
2. Pumping test	_____	gallons	x	\$0.60 \$ _____ \$0.00
B. Free Product				
	_____	drums	x	\$110.00 \$ _____ \$0.00
C. Soil (Treatment/Disposal)				
	0.66	tons	x	\$50.00 \$ _____ \$33.00
	_____	drums	x	\$50.00 \$ _____ \$0.00
18. Miscellaneous* (receipts required)				
G & K Tank (Boom Disposal)	2		x	\$55.00 \$ _____ \$110.00
Case of 4 - 5" x 10' Booms (Eon)	4		x	\$95.00 \$ _____ \$380.00
Case of 5 - 4" x 10' Booms (Eon)	2		x	\$93.00 \$ _____ \$186.00
	_____		x	\$ _____ \$ _____ \$0.00
19. Report/Project Management and Coordination				
				(SUBTOTAL)
	0.15		x	\$3,959.00 \$ _____ \$593.85
20. Total				
				\$ \$4,552.85



**RICHLAND COUNTY
LANDFILL, INC.
TNT SANDS, INC.**

A WASTE MANAGEMENT COMPANY
1047 Highway Church Rd.
Elgin, SC 29045
(803) 788-3054 • (803) 736-0995 Fax

K29

Date: 06/21/2001 (MANUAL) 10:57 AM
TIME IN: 10:56 TIME OUT: 10:56 Ticket: 311682

320-158

SEE ENVIRONMENTAL, INC
3021 HAUGHTON DRIVE
SUITE 9
COLUMBIA SC 29223

Driver:

Truck: ONE

Description	Quantity
CONTAMINATED SOIL	.66 TON
Generator: SEE SEE ENVIRONMENTAL INC.	
Approval: RC 0106014 SOOMS, RESIDUAL	
Source: 35-PICKENS Type: SOL District: IN	
GVW 12020 TW 10630	
FUEL SURCHARGE-320	

Signature

G & K Tank Services, Inc.

PO Box 1384
Sumter, SC 29151
(803) 494-4593

INVOICE
0003175

INVOICE DATE:

SOLD TO:

SEI ENVIRONMENTAL
3021 MCNAUGHTON DRIVE
SUITE 9
COLUMBIA,, SC 29223-3021

Oct 26, 2001

CUSTOMER ID	PURCHASE ORDER	PAYMENT TERMS	PAGE
SPA002		Net 30 Days	1

QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENSION
1.00	55 GAL W	CONTAMINATED WATER-DRUMS FROM GREENVILLE GAS GARDNER	55.00	55.00
2.00	55 GAL S	CONTAMINATED PADS-DRUMS FROM HWY 11 GROCERY	55.00	110.00
1.00	55 GAL W	CONTAMINATED WATER-DRUMS FROM AMOCO 32	55.00	55.00
1.00	55 GAL W	CONTAMINATED WATER-DRUMS FROM PANTRY #607	55.00	55.00
1.00	55 GAL W	CONTAMINATED WATER-DRUMS FROM CONTAMINATED SOIL-DRUMS FROM PANTRY 822	55.00	55.00
2.00	55 GAL S	PANTRY 822	55.00	110.00

OK Bolton
\$110.00
300388

\$165.00
300-447
OK/82K

\$55.00
OK/82K
300-424

\$55.00
OK/82K
300-473

\$55
OK/82K
308-171

VENDOR # GKTRKSV PAY DATE 11/25/01
 PROJ. # _____ TASK # _____
 ACCT. # 514.01 AMT 440.00
 APPROVAL _____
 DESC. Disposal

TOTAL	\$440.00
--------------	-----------------

ENTERED

NOV - 2001

EON

Products, Inc.

P.O. Box 390246
 Snellville, GA 30039
 Phone 770-978-9971
 Fax: 770-978-8661

Invoice

Invoice Number:
5097

Invoice Date:
Nov 7, 2001

Page:
1

RECEIVED NOV 14 2001

Sold To:
 SEI Environmental
 3021 McNaughton
 Suite 9
 Columbia, SC 29223

Ship To:
 SEI
 3021 McNaughton
 Suite 9
 Columbia, SC 29223

Customer ID		Customer PO		Payment Terms																					
SEI Env-Columbia		Bob Bolton		Net 30 Days																					
Sales Rep ID		Shipping Method		Ship Date	Due Date																				
Bradley Varhol		UPS Ground		11/5/01	12/7/01																				
Quantity	Item	Description	Backorder	Unit Price	Extension																				
2.00	30031	Booms, 4" x 10 ft. cs of 5 ea.		93.00	186.00																				
2.00	30032	Booms, 5" x 10 ft. cs of 4 ea.		95.00	190.00																				
<p>ENTERED NOV 16 2001</p> <table border="1" style="margin: auto;"> <tr> <td>VENDOR#</td> <td>EONPRD</td> <td>DATE</td> <td></td> </tr> <tr> <td>PP#</td> <td>300388</td> <td>TASK#</td> <td></td> </tr> <tr> <td>ACCT#</td> <td>541.0</td> <td>AMT</td> <td>397.31</td> </tr> <tr> <td>APPROVAL</td> <td colspan="3">OK Bolton</td> </tr> <tr> <td>DESC</td> <td colspan="3">Supplier</td> </tr> </table>						VENDOR#	EONPRD	DATE		PP#	300388	TASK#		ACCT#	541.0	AMT	397.31	APPROVAL	OK Bolton			DESC	Supplier		
VENDOR#	EONPRD	DATE																							
PP#	300388	TASK#																							
ACCT#	541.0	AMT	397.31																						
APPROVAL	OK Bolton																								
DESC	Supplier																								

Thank You for using EON Products!!!

Sales Order: 4028
 Check No:

Subtotal	376.00
Sales Tax	
Shipping & Handling	21.31
Total Invoice Amount	397.31
Payment Received	0.00
TOTAL	397.31



Products, Inc.

P.O. Box 390246
Snellville, GA 30039

Phone 770-978-9971
Fax: 770-978-8661

RECEIVED MAY 11 2001

Invoice

Invoice Number:
4347

Invoice Date:
May 11, 2001

Page:
1

Sold To:

SEI Environmental
3021 McNaughton
Suite 9
Columbia, SC 29223

Ship To:

SEI
3021 McNaughton
Suite 9
Columbia, SC 29223

Customer ID		Customer PO	Payment Terms		
SEI Env-Columbia		Verbal per Bob	Net 30 Days		
Sales Rep ID		Shipping Method	Ship Date	Due Date	
Bradley Varhol		UPS Ground	5/10/01	6/10/01	
Quantity	Item	Description	Backorder	Unit Price	Extension
1.00		Case of 4- 4"x10' Booms		80.00	80.00
2.00		Case of 4- 5"x10' Booms		95.00	190.00

W/PROD Emprod DATE 6/10/01

PO 300388 TASK#

ACCT.# 541.0 - 300.25

APPROVAL _____

DESC Supplies

OK Bolton
300388

Thank You for using EON Products!!!

Sales Order: 3322
Check No:

Subtotal	270.00
Sales Tax	
Freight	30.25
Total Invoice Amount	300.25
Payment Received	0.00
TOTAL	300.25

300.25

SEI

Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

December 29, 2003

Konstantine Akhvlediani
Hydrogeologist
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

Re: Summary of Initial Sampling
Highway 11 Grocery
13527 North Hwy 11
Salem, South Carolina
UST Permit #03439

Dear Mr. Akhvlediani;

SEI Environmental, Inc. (SEI) submits the following summary of the gauging and sampling of the monitoring wells at the above referenced facility on December 18, 2003. Attached in Appendix A are Figure 1, a topographic map depicting the location of the site and Figure 2, a site map illustrating the location of the monitoring wells. Attached in Appendix B is a copy of the November 6, 2002, South Carolina Department of Health and Environmental Control (SCDHEC) directive letter.

December 18, 2003 SEI personnel were on site to gauge the monitoring wells and collect representative groundwater samples. Eighteen (18) monitoring wells were gauged. Free product, in the form of a sheen, was observed in monitoring well MW-8. Attached in Appendix C are Table 1, which summarizes the December 18, 2003 gauging observations and Table 2, which summarizes the historical gauging observations. Attached in Appendix D is Figure 3, a potentiometric map based upon the December 18, 2003 gauging observations. Upon completion of gauging the wells, all eighteen (18) wells were purged and field screened. Please note that ten (10) monitoring well(s), MW-1, MW-2, MW-4 – MW-8, MW-10, MW-14 and MW-15 were not field screened because of the observation of strong petroleum odors emanating from the wells and in the case of MW-8 the presence of petroleum sheen. Attached in Appendix E is Table 3, which summarizes the December 18, 2003 field screening information and copies of the SCDHEC Field Data Information Sheet(s) for Ground Water Sampling. Upon completion of purging and field screening a representative sample was collected from twenty sample point(s), eighteen (18) from the monitoring wells and two (2) from the adjacent creek. After collection of the representative samples, they were labeled and placed on ice in a cooler in preparation for shipment for laboratory analysis. The samples were submitted to Environmental Science Laboratory in Nashville, Tennessee for analysis for Benzene, Toluene, Ethylbenzene, Xylene (BTEX) by EPA method 8260B, Methyl Tert-butyl Ether (MTBE) by EPA method 8260B, and Naphthalene by EPA method 8260B. Attached in Appendix F are Table 4, which summarizes the laboratory analytical results and copies of the laboratory analytical results. Attached in Appendix G is

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UNDERGROUND STORAGE
TANK PROGRAM



Environmental, Inc.

Figure 4, a CoC map based on the December 18, 2003 laboratory analytical data. Two (2) drums of petroleum-impacted water were generated from the purging of the monitoring well(s).

December 19, 2003, the two (2) drums of petroleum-impacted water, generated from the December 18, 2003 purging of the monitoring wells, were transported to G & K Tank Services, Inc.; located in Sumter, South Carolina for disposal. Attached in Appendix H are copies of the Non-Hazardous Waste Manifest and Certificate for Disposal.

The evaluation of the corrective action activities effectiveness consists of comparing the December 18, 2003 laboratory analytical data against the May 7, 2002 laboratory data and determining the percent of total concentration reduction. The percent of total concentration reduction is calculated by using the following formula:

$$\text{Percent of Total Concentration Reduction} = ((\text{Initial Mass Above SSSL}) - (\text{Current Mass Above SSSL})) / (\text{Initial Mass Above SSSL}) * (100)$$

The calculation for the December 18, 2003 Percent of Total Concentration Reduction was found to be 99.14%. Attached in Appendix I is Table 5, which illustrates the system's effectiveness analysis.

Based upon the December 18, 2003 field observation(s) and laboratory analytical results, SEI submits that corrective action will continue and that the next round of sampling will occur in March 2004. SEI requests the presence of a representative from SCDHEC for collection of split samples.

If you have questions and / or comments concerning the information contained within this report, please contact John Paul Bekish at (803) 788-2535.

Sincerely,

John Paul Bekish 1/5/04

John Paul Bekish
Operations Manager
SEI - Columbia, SC Office

Randy Casey 12/30/03

Randy Casey
Professional Engineer
PE # 21054 CA

Attachment(s)

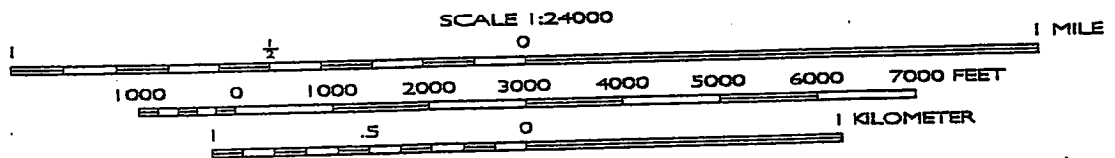
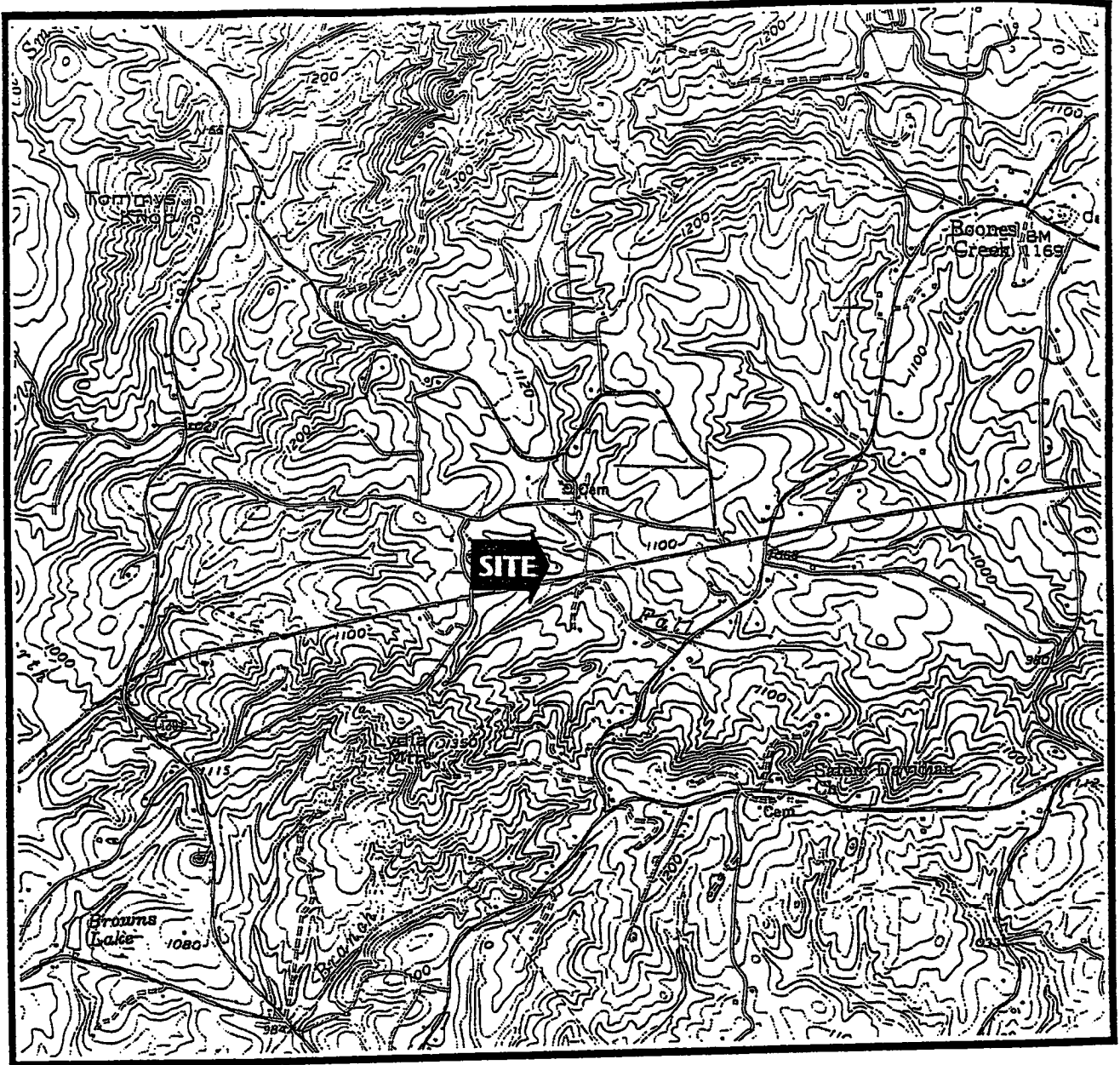
CC: Steve Smith - Property Owner - 180 Schallow Ford Road, Salem, South Carolina 29676
SEI Project Files

Appendix A
Figure 1 – Topographic Map
&
Figure 2 – Site Map

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SEI Environmental, Inc.

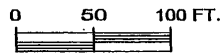
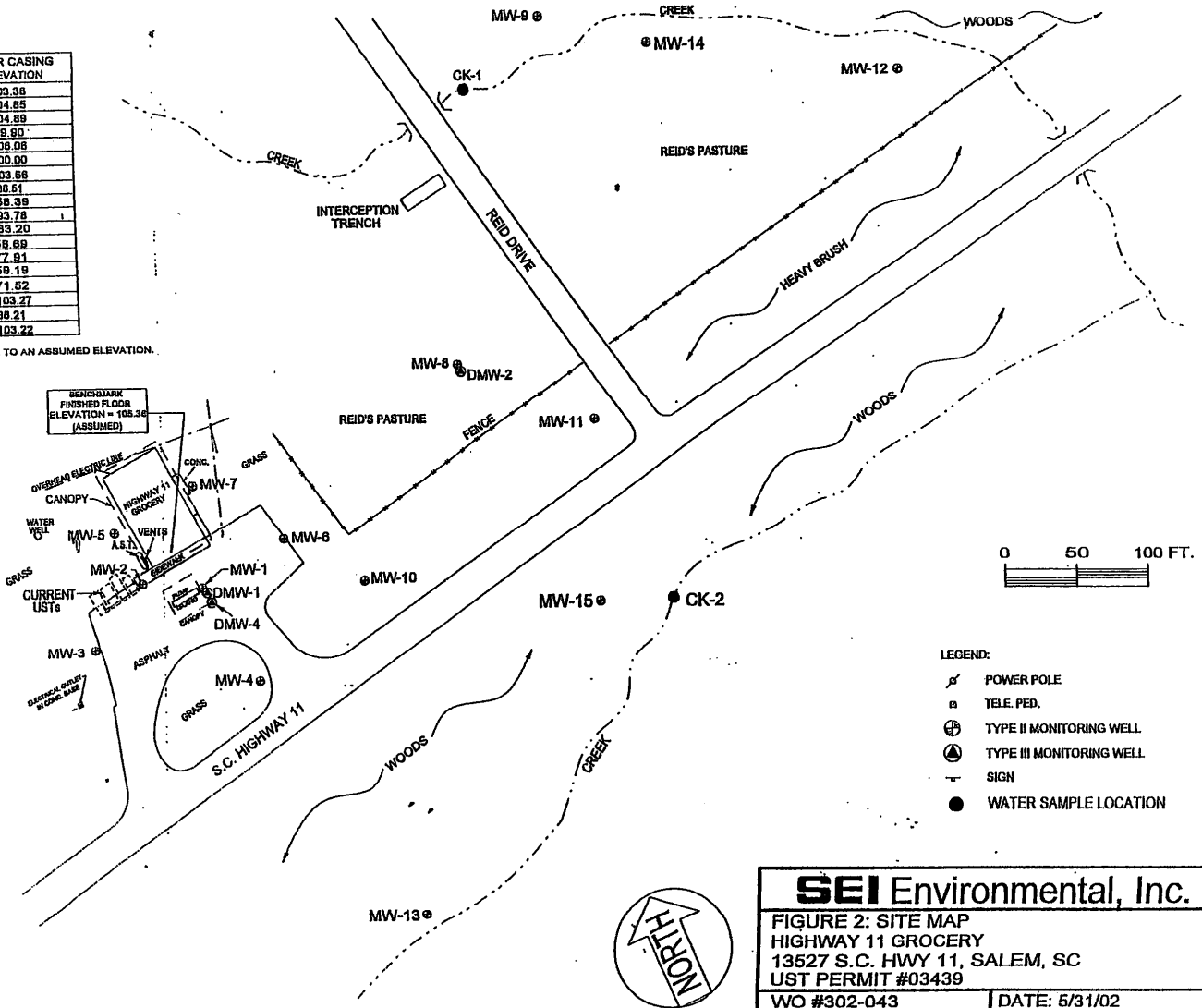
FIGURE 1: SITE LOCATION MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

W.O. #: 300-388
DWG #

DATE: 9/5/01
DRAWN BY: JCI

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.80
MW-5	108.08
MW-6	100.00
MW-7	103.66
MW-8	88.61
MW-9	58.39
MW-10	83.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	109.27
DMW-2	89.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



- LEGEND:
- POWER POLE
 - TELE. PED.
 - TYPE II MONITORING WELL
 - TYPE III MONITORING WELL
 - SIGN
 - WATER SAMPLE LOCATION

SEI Environmental, Inc.

FIGURE 2: SITE MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

WO #302-043	DATE: 5/31/02
DWG #HI0388F1	DRAWN BY: JCJ

Appendix B
November 6, 2002 SCDHEC Directive Letter

Appendix C

Table 1 – Summary of December 18, 2003 Gauging Results

&

Table 2 – Summary of Historical Gauging Results

Table 1
Summary of Gauging Results - December 18, 2003
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
MW-1	12/18/2003	2.00	24.06	0.00	28.00	103.38	79.32
MW-2	12/18/2003	2.00	25.38	0.00	35.00	104.85	79.47
MW-3	12/18/2003	2.00	23.93	0.00	30.00	104.89	80.98
MW-4	12/18/2003	2.00	22.95	0.00	35.00	99.90	76.95
MW-5	12/18/2003	2.00	28.40	0.00	35.00	106.06	77.66
MW-6	12/18/2003	2.00	21.00	0.00	32.60	100.00	79.00
MW-7	12/18/2003	2.00	27.71	0.00	40.00	103.66	75.95
MW-8	12/18/2003	2.00	20.82	0.00	30.00	86.51	65.69
MW-9	12/18/2003	2.00	2.20	0.00	11.00	58.39	56.19
MW-10	12/18/2003	2.00	19.83	0.00	24.00	93.78	73.95
MW-11	12/18/2003	2.00	16.40	0.00	23.00	83.20	66.80
MW-12	12/18/2003	2.00	2.60	0.00	12.00	58.69	56.09
MW-13	12/18/2003	2.00	6.24	0.00	13.00	77.72	71.48
MW-14	12/18/2003	2.00	1.98	0.00	10.00	59.19	57.21
MW-15	12/18/2003	2.00	10.20	0.00	12.00	71.52	61.32
DMW-1	12/18/2003	2.00	24.00	0.00	45.00	103.27	79.27
DMW-2	12/18/2003	2.00	16.88	0.00	75.00	86.21	69.33
DMW-4	12/18/2003	2.00	24.45	0.00	61.00	103.22	78.77

Notes: N/A = Not Applicable
 MW-8 was Observed to have a Sheen of Free Product Present

Table 2
Summary of Historical Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
MW-1	12/18/2003	2.00	24.06	0.00	28.00	103.38	79.32
	10/23/2003		24.72	0.21			78.50
	10/2/2003		24.32	0.13			78.96
	9/15/2003		23.78	0.04			79.57
	7/30/2003		22.89	0.08			80.43
	7/1/2003		23.28	0.24			79.91
	5/8/2002		24.67	0.04			78.68
MW-2	12/18/2003	2.00	25.38	0.00	35.00	104.85	79.47
	10/23/2003		25.71	0.00			79.14
	10/2/2003		25.56	0.00			79.29
	9/15/2003		24.73	0.00			80.12
	7/30/2003		23.78	0.00			81.07
	7/1/2003		24.08	0.00			80.77
	5/8/2002		26.08	0.00			78.77
MW-3	12/18/2003	2.00	23.93	0.00	30.00	104.86	80.93
	10/23/2003		24.23	0.00			80.63
	10/2/2003		23.87	0.00			80.99
	9/15/2003		23.23	0.00			81.63
	7/30/2003		22.21	0.00			82.65
	7/1/2003		22.51	0.00			82.35
	5/8/2002		24.78	0.00			80.08

TABLE 1

Annual production and export of cotton in the

United States, 1900-1920

(In thousands of bales)

Source: Bureau of Economic Warfare

1920-1921

Year	Production	Exports	Domestic Consumption	Stocks
1900	1,000	1,000	1,000	1,000
1901	1,000	1,000	1,000	1,000
1902	1,000	1,000	1,000	1,000
1903	1,000	1,000	1,000	1,000
1904	1,000	1,000	1,000	1,000
1905	1,000	1,000	1,000	1,000
1906	1,000	1,000	1,000	1,000
1907	1,000	1,000	1,000	1,000
1908	1,000	1,000	1,000	1,000
1909	1,000	1,000	1,000	1,000
1910	1,000	1,000	1,000	1,000
1911	1,000	1,000	1,000	1,000
1912	1,000	1,000	1,000	1,000
1913	1,000	1,000	1,000	1,000
1914	1,000	1,000	1,000	1,000
1915	1,000	1,000	1,000	1,000
1916	1,000	1,000	1,000	1,000
1917	1,000	1,000	1,000	1,000
1918	1,000	1,000	1,000	1,000
1919	1,000	1,000	1,000	1,000
1920	1,000	1,000	1,000	1,000
1921	1,000	1,000	1,000	1,000

Table 2 - Continued
Summary of Historical Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
MW-4	12/18/2003	2.00	22.95	0.00	35.00	99.90	76.95
	10/23/2003		23.69	0.00			76.21
	10/2/2003		23.32	0.00			76.58
	9/15/2003		22.90	0.00			77.00
	7/30/2003		22.09	0.00			77.81
	7/1/2003		22.10	0.00			77.80
MW-5	5/8/2002	2.00	23.38	0.00	35.00	106.06	76.52
	12/18/2003		28.40	0.00			77.66
	10/23/2003		28.40	0.00			77.66
	10/2/2003		27.92	0.00			78.14
	9/15/2003		27.40	0.00			78.66
	7/30/2003		26.53	0.00			79.53
MW-6	7/1/2003	2.00	26.82	0.00	32.60	100.00	79.24
	5/8/2002		28.82	0.00			77.24
	12/18/2003		21.00	0.00			79.00
	10/23/2003		21.74	0.00			78.26
	10/2/2003		21.34	0.00			78.66
	9/15/2003		20.63	0.00			79.37
MW-6	7/30/2003	2.00	19.88	0.00	32.60	100.00	80.12
	7/1/2003		19.77	0.00			80.23
	5/8/2002		21.66	0.00			78.34

Table 2 - Continued
Summary of Historical Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salern, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
MW-7	12/18/2003	2.00	27.71	0.00	40.00	103.66	75.95
	10/23/2003		28.10	0.00			75.56
	10/2/2003		27.69	0.00			75.97
	9/15/2003		26.83	0.00			76.83
	7/30/2003		26.22	0.00			77.44
	7/1/2003		26.55	0.00			77.11
	5/8/2002		28.12	0.00			75.54
MW-8	12/18/2003	2.00	20.82	0.00	30.00	86.51	65.69
	10/23/2003		21.54	0.02			64.97
	10/2/2003		20.44	0.20			66.05
	9/15/2003		21.17	0.15			65.33
	7/30/2003		20.46	0.20			66.03
	7/1/2003		20.96	0.60			65.50
	5/8/2002		21.00	0.06			65.51
MW-9	12/18/2003	2.00	2.20	0.00	11.00	58.39	56.19
	10/23/2003		2.42	0.00			55.97
	10/2/2003		2.16	0.00			56.23
	9/15/2003		2.42	0.00			55.97
	7/30/2003		2.26	0.00			56.13
	7/1/2003		2.30	0.00			56.09
	5/8/2002		2.47	0.00			55.92

Routing - 8/20/01

Approved: [Signature] Date: 8/20/01
 Prepared: [Signature] Date: 8/20/01
 Checked: [Signature] Date: 8/20/01
 Approved: [Signature] Date: 8/20/01

Task	Start Date	End Date	Start Time	End Time	Personnel	Equipment	Notes
Task 1	8/20/01	8/20/01	08:00	12:00	Personnel 1	Equipment 1	Notes 1
Task 2	8/20/01	8/20/01	13:00	17:00	Personnel 2	Equipment 2	Notes 2
Task 3	8/20/01	8/20/01	08:00	17:00	Personnel 3	Equipment 3	Notes 3

Table 2 - Continued
Summary of Historical Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
MW-10	12/18/2003	2.00	19.83	0.00	24.00	93.78	73.95
	10/23/2003		20.51	0.00			73.27
	10/2/2003		20.19	0.00			73.59
	9/15/2003		16.53	0.00			77.25
	7/30/2003		18.96	0.00			74.83
	7/1/2003		16.20	0.00			77.58
	5/8/2002		20.04	0.00			73.74
MW-11	12/18/2003	2.00	16.40	0.00	23.00	83.20	66.80
	10/23/2003		17.83	0.00			65.37
	10/2/2003		17.58	0.00			65.62
	9/15/2003		16.21	0.00			66.99
	7/30/2003		15.92	0.00			67.28
	7/1/2003		15.93	0.00			67.27
	5/8/2002		16.86	0.00			66.34
MW-12	12/18/2003	2.00	2.60	0.00	12.00	58.69	56.09
	10/23/2003		3.50	0.00			55.19
	10/2/2003		2.97	0.00			55.72
	9/15/2003		3.19	0.00			55.50
	7/30/2003		3.02	0.00			55.67
	7/1/2003		3.10	0.00			55.59
	5/8/2002		3.12	0.00			55.57

(Name of the person)
 (Address)
 (City)
 (State)
 (Zip)

Year	Month	Day	Time	Location	Activity	Remarks
1950	10	10	10:00	1000	1000	1000
1950	10	10	10:00	1000	1000	1000
1950	10	10	10:00	1000	1000	1000

Table 2 - Continued
Summary of Historical Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
MW-13	12/18/2003	2.00	6.24	0.00	13.00	77.72	71.48
	10/23/2003		6.78	0.00			70.94
	10/2/2003		7.51	0.00			70.21
	9/15/2003		6.62	0.00			71.10
	7/30/2003		6.28	0.00			71.44
	7/1/2003		6.44	0.00			71.28
	5/8/2002		6.52	0.00			71.20
MW-14	12/18/2003	2.00	1.98	0.00	10.00	59.19	57.21
	10/23/2003		2.67	0.00			56.52
	10/2/2003		1.58	0.00			57.61
	9/15/2003		2.03	0.00			57.16
	7/30/2003		1.77	0.00			57.42
	7/1/2003		1.92	0.00			57.27
	5/8/2002		2.14	0.00			57.05
MW-15	12/18/2003	2.00	10.20	0.00	12.00	71.52	61.32
	10/23/2003		11.07	0.00			60.45
	10/2/2003		11.88	0.00			59.64
	9/15/2003		11.02	0.00			60.50
	7/30/2003		10.67	0.00			60.85
	7/1/2003		10.83	0.00			60.69
	5/8/2002		10.61	0.00			60.91

Table 2 - Continued
Summary of Historical Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Gauging Date	Diameter Well (Inches)	Depth to Water (Feet)	LPH Thickness (Feet)	Depth of Well (Feet)	Well Head Elevation (Feet)	Groundwater Elevation (Feet)
DMW-1	12/18/2003	2.00	24.00	0.00	45.00	103.27	79.27
	10/23/2003		24.50	0.00			78.77
	10/2/2003		24.11	0.00			79.16
	9/15/2003		23.61	0.00			79.66
	7/30/2003		22.72	0.00			80.55
	7/1/2003		22.97	0.00			80.30
DMW-2	5/8/2002	2.00	24.68	0.00	75.00	86.21	78.59
	12/18/2003		16.80	0.00			69.41
	10/23/2003		17.63	0.00			68.58
	10/2/2003		17.11	0.00			69.10
	9/15/2003		15.75	0.00			70.46
	7/30/2003		16.49	0.00			69.72
	7/1/2003		16.44	0.00			69.77
DMW-4	5/8/2002	2.00	17.22	0.00	61.00	103.22	68.99
	12/18/2003		24.45	0.00			78.77
	10/23/2003		24.95	0.00			78.27
	10/2/2003		24.39	0.00			78.83
	9/15/2003		23.88	0.00			79.34
	7/30/2003		23.18	0.00			80.04
	7/1/2003		23.32	0.00			79.90
	5/8/2002		25.08	0.00			78.14

Notes: N/A = Not Applicable
 Adjusted Depth to Water = Depth to Water - (LPH Thickness * 0.78)

10000000 - 5 000000
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 10000000 - 5 000000

Account	Debit	Credit	Balance	Debit	Credit	Balance
10000000	5000000		5000000			5000000
10000000		5000000		5000000		5000000
10000000	5000000		5000000			5000000
10000000		5000000		5000000		5000000
10000000	5000000		5000000			5000000
10000000		5000000		5000000		5000000

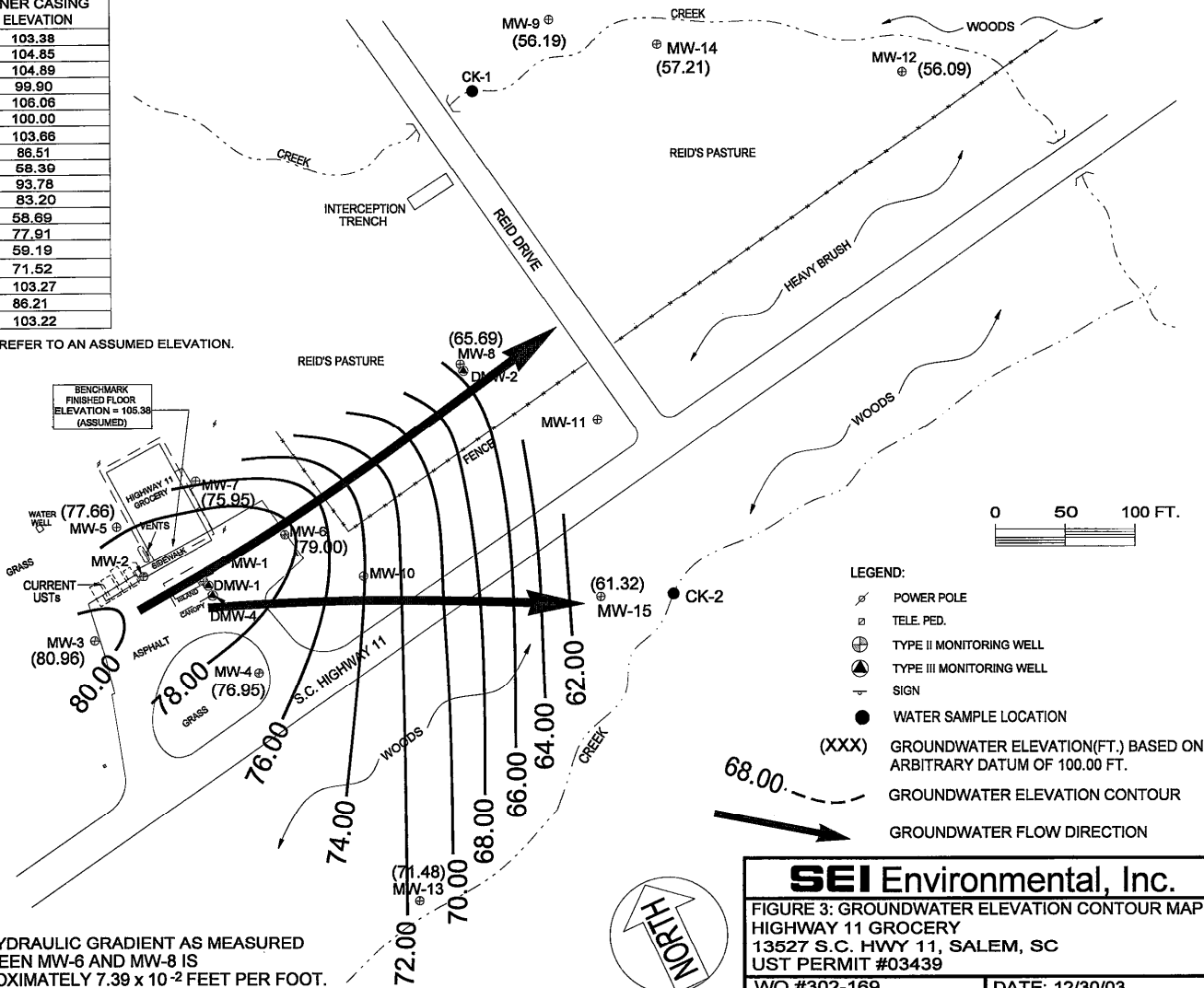
10000000 - 5 000000
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Appendix D

Figure 3 - Potentiometric Map Based on the December 18, 2003 Gauging Observations

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	56.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



NOTE: THE HYDRAULIC GRADIENT AS MEASURED BETWEEN MW-6 AND MW-8 IS APPROXIMATELY 7.39×10^{-2} FEET PER FOOT.

SEI Environmental, Inc.
 FIGURE 3: GROUNDWATER ELEVATION CONTOUR MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #302-169	DATE: 12/30/03
DWG #HI01693F	DRAWN BY: JCJ

Appendix E
Table 3 – Summary Field Screening Observation(s)
&
SCDHEC Field Data Information Sheet for Ground Water Sampling

Table 3
Summary of Field Observations - December 16, 2003
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Frequency	Depth to Groundwater (Feet)	Total Well Depth (Feet)	Depth of Free Product (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temperature (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-1	Initial	24.06	28.00	N/A	N/A	N/A	N/A	N/A	5.70	Strong Petro. Odors
MW-2	Initial	25.38	35.00	N/A	N/A	N/A	N/A	N/A	4.70	Strong Petro. Odors
MW-3	Initial	23.92	30.00	N/A	4.67	0.075	16.90	8.00		Full Recharge
	1st Volume				4.62	0.022	17.00	7.41	2.90	
	2nd Volume				4.56	0.017	17.00	7.62	2.90	
	3rd Volume				4.54	0.016	16.90	7.81	2.90	
	Post				4.56	0.014	16.90	8.01		
MW-4	Initial	22.95	35.00	N/A	N/A	N/A	N/A	N/A	5.80	Strong Petro. Odors
MW-5	Initial	28.40	35.00	N/A	N/A	N/A	N/A	N/A	6.60	Strong Petro. Odors
MW-6	Initial	21.00	32.60	N/A	N/A	N/A	N/A	N/A	5.60	Strong Petro. Odors
MW-7	Initial	27.71	40.00	N/A	N/A	N/A	N/A	N/A	6.00	Strong Petro. Odors
MW-8	Initial	20.82	30.00	Sheen	N/A	N/A	N/A	N/A	6.00	Sheen Present
MW-9	Initial	2.20	11.00	N/A	4.87	0.026	12.50	6.92		Full Recharge
	1st Volume				4.83	0.026	13.00	6.67	1.40	
	2nd Volume				5.07	0.026	13.10	7.06	1.40	
	3rd Volume				5.27	0.029	13.20	7.27	1.50	
	Post				5.27	0.031	12.30	6.94		
MW-10	Initial	19.83	24.00	N/A	N/A	N/A	N/A	N/A	2.00	Strong Petro. Odors
MW-11	Initial	16.40	23.00	N/A	4.50	0.012	16.10	6.13		Dry After 2 Gallons
	1st Volume				4.65	0.012	16.70	6.75	1.00	
	2nd Volume				4.71	0.015	16.50	7.42	1.00	

Table 3
Summary of Field Observations - December 16, 2003
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Frequency	Depth to Groundwater (Feet)	Total Well Depth (Feet)	Depth of Free Product (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temperature (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-12	Initial	2.60	12.00	N/A	4.92	0.027	10.90	5.84		Full Recharge
	1st Volume				4.81	0.025	12.00	4.85	1.50	
	2nd Volume				4.78	0.023	12.20	4.96	1.50	
	3rd Volume				4.80	0.021	12.40	5.19	1.50	
	Post				4.83	0.022	12.10	5.83		
MW-13	Initial	6.24	13.00	N/A	5.19	0.043	12.50	7.60		Full Recharge
	1st Volume				5.17	0.039	12.80	7.41	1.10	
	2nd Volume				5.06	0.035	12.30	7.15	1.10	
	3rd Volume				4.95	0.035	12.70	7.34	1.10	
	Post				5.12	0.044	13.20	7.45		
MW-14	Initial	1.98	10.00	N/A	N/A	N/A	N/A	N/A	3.90	Strong Petro. Odors
MW-15	Initial	10.20	12.00	N/A	4.59	0.014	13.60	8.95	0.88	Strong Petro. Odors
DMW-1	Initial	24.00	45.00	N/A	4.74	0.030	17.10	7.22		Full Recharge
	1st Volume				5.34	0.032	16.30	5.98	3.40	
	2nd Volume				5.31	0.032	16.90	6.81	3.40	
	3rd Volume				5.29	0.031	17.20	7.51	3.40	
	Post				5.31	0.031	16.80	7.77		
DMW-2	Initial	16.88	75.00	N/A	6.23	0.095	14.40	4.32		Full Recharge
	1st Volume				6.51	0.096	14.20	3.62	9.40	
	2nd Volume				6.59	0.084	13.90	6.51	9.40	
	3rd Volume				6.59	0.060	15.20	8.58	9.60	
	Post				6.48	0.054	14.70	8.70		

5. Results

Table 1 shows the results of the regression analysis for the dependent variable 'log(earnings)'.

The dependent variable is 'log(earnings)'. The independent variables are 'education', 'experience', 'age', 'gender', and 'race'.

The results show that education, experience, and age are positively correlated with earnings, while gender and race are negatively correlated.

The adjusted R-squared value is 0.15, indicating that the model explains 15% of the variance in earnings.

The F-statistic is 2.15, which is significant at the 10% level.

Variable	Parameter Estimate	Standard Error	t-Statistic	Probability > |t|	Lower Bound	Upper Bound
Intercept	1.123	0.045	24.95	0.0000	1.033	1.213
education	0.085	0.005	17.00	0.0000	0.075	0.095
experience	0.012	0.001	12.00	0.0000	0.010	0.014
age	0.005	0.0005	10.00	0.0000	0.004	0.006
gender	-0.025	0.005	-5.00	0.0000	-0.035	-0.015
race	-0.015	0.005	-3.00	0.0010	-0.025	-0.005
Adjusted R-squared	0.15					
F-statistic	2.15			0.0000		

Table 3
Summary of Field Observations - December 16, 2003
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Frequency	Depth to Groundwater (Feet)	Total Well Depth (Feet)	Depth of Free Product (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temperature (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
DMW-4	Initial	24.45	61.00	N/A	5.52	0.037	16.80	13.27		Full Recharge
	1st Volume				5.47	0.034	16.00	12.99	5.90	
	2nd Volume				5.51	0.034	15.80	12.80	5.90	
	3rd Volume				5.47	0.034	16.60	12.16	6.00	
	Post				5.55	0.037	16.70	12.39		

Notes: N/A = Not Applicable
 MW-8 was Observed to have a Sheen of Free Product
 MW-1, MW-2, MW-4, MW-6, MW-7, MW-10, MW-14 & MW-15 had Strong Petro. Odors, which Resulted in No Field Screening

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03
 Field Personnel: V. Chishola
 General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HONISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocers
 Site ID#: 03439 Monitoring Well # 1
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 24.06 feet
 Total Well Depth (TWD) 28.00 feet
 Length of the water column (LWC=TWD-DGW) 3.94 feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
 3 casing volume (3 X CV)= 1.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1320</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. 1854 Conductivity Meter serial no. 1854
 pH=4.0 70.002 pH@25°C standard 4.49 ms/cm
 pH=7.0 _____ standard _____
 pH=10.0 _____ standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 25.38 feet

Total Well Depth (TWD) 35.00 feet

Length of the water column (LWC=TWD-DGW) 9.62 feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
 3 casing volume (3 X CV)= 4.7 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1335</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>±0.002 pH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HORIZA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 3

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 23.92 feet

Total Well Depth (TWD) 30.00 feet

Length of the water column (LWC=TWD-DGW) 6.08 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .99 gals

3 casing volume (3 X CV) = 2.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1510</u>
pH (s.u.)	<u>4.67</u>	<u>4.62</u>	<u>4.56</u>	<u>4.54</u>			<u>4.56</u>
Specific Conductivity (µmhos/cm)	<u>1675</u>	<u>1022</u>	<u>1017</u>	<u>1016</u>			<u>1014</u>
Water Temperature (°C)	<u>16.9</u>	<u>17.0</u>	<u>17.0</u>	<u>16.9</u>			<u>16.9</u>
Dissolved Oxygen	<u>8.00</u>	<u>7.41</u>	<u>7.62</u>	<u>7.81</u>			<u>8.01</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>70.002 pH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLLIS Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 4

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.95 feet

Total Well Depth (TWD) 35.00 feet

Length of the water column (LWC=TWD-DGW) 12.05 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.9 gals

3 casing volume (3 X CV) = 5.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1415</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: SUNNY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>TO.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 5

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 28.40 feet

Total Well Depth (TWD) 35.00 feet

Length of the water column (LWC=TWD-DGW) 6.6 feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= 3.2 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1350</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well smelly

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chishola

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>±0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 6

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 21.00 feet

Total Well Depth (TWD) 32.60 feet

Length of the water column (LWC=TWD-DGW) 11.6 feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= 5.6 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1440</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HORIZA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 7

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 27.71 feet

Total Well Depth (TWD) 40.00 feet

Length of the water column (LWC=TWD-DGW) 12.29 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.0 gals

3 casing volume (3 X CV) = 6.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1500</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: SUNNY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>70.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLLIS Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 8

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 20.82 sheen feet

Depth to Ground Water (DGW) 20.82 feet

Total Well Depth (TWD) _____ feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1200</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well sheen of product

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: SUNNY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. 1854 Conductivity Meter serial no. 1854

pH=4.0 FU.002 PH@25°C standard 4.49 ms/cm

pH=7.0 _____ standard _____

pH=10.0 _____ standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HORIZA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 9

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.20 feet

Total Well Depth (TWD) 11.0 feet

Length of the water column (LWC=TWD-DGW) 8.8 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.4 gals

3 casing volume (3 X CV)= 4.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1700
pH (s.u.)	4.87	4.83	5.07	5.27			5.27
Specific Conductivity (µmhos/cm)	.026	.026	.026	.029			.031
Water Temperature (°C)	12.5	13.0	13.1	13.2			12.3
Dissolved Oxygen	6.92	6.67	7.06	7.27			6.94
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chishola

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 10

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 19.83 feet

Total Well Depth (TWD) 24.00 feet

Length of the water column (LWC=TWD-DGW) 4.17 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 67 gals

3 casing volume (3 X CV)= 20 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1425</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C.

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>70.002 pH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocers

Site ID#: 03439 Monitoring Well # 11

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 16.40 feet

Total Well Depth (TWD) 23.0 feet

Length of the water column (LWC=TWD-DGW) 6.6 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.0 gals

3 casing volume (3 X CV) = 3.2 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								<u>1645</u>
pH (s.u.)	<u>4.50</u>	<u>4.55</u>	<u>4.71</u>					
Specific Conductivity (µmhos/cm)	<u>.012</u>	<u>.012</u>	<u>.015</u>					
Water Temperature (°C)	<u>16.1</u>	<u>16.7</u>	<u>16.5</u>					
Dissolved Oxygen	<u>6.13</u>	<u>6.75</u>	<u>7.42</u>					
PID readings, if required								

Remarks: Dry after 2 gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. 1854 Conductivity Meter serial no. 1854

pH=4.0 70.002 PH@25°C standard 4.49 ms/cm

pH=7.0 _____ standard _____

pH=10.0 _____ standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HONOR Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 12

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.60 feet

Total Well Depth (TWD) 12.00 feet

Length of the water column (LWC=TWD-DGW) 9.4 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.5 gals

3 casing volume (3 X CV)= 4.5 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1715
pH (s.u.)	4.92	4.81	4.78	4.80			4.83
Specific Conductivity (µmhos/cm)	1027	1025	1023	1021			1022
Water Temperature (°C)	10.9	12.0	12.2	12.4			12.1
Dissolved Oxygen	5.84	4.35	4.96	5.19			5.83
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLLIS Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 13

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 6.24 feet

Total Well Depth (TWD) 13.0 feet

Length of the water column (LWC=TWD-DGW) 6.76 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.1 gals

3 casing volume (3 X CV)= 3.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1530</u>
pH (s.u.)	<u>5.19</u>	<u>5.17</u>	<u>5.06</u>	<u>4.95</u>			<u>5.12</u>
Specific Conductivity (µmhos/cm)	<u>1043</u>	<u>1039</u>	<u>1035</u>	<u>1035</u>			<u>1044</u>
Water Temperature (°C)	<u>12.5</u>	<u>12.8</u>	<u>12.3</u>	<u>12.7</u>			<u>13.2</u>
Dissolved Oxygen	<u>7.60</u>	<u>7.41</u>	<u>7.15</u>	<u>7.34</u>			<u>7.45</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>70.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 14

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 1.98 feet

Total Well Depth (TWD) 10.0 feet

Length of the water column (LWC=TWD-DGW) 8.02 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.3 gals
3 casing volume (3 X CV) = 3.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1730</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chishola

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HORIZA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # 15

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 10.20 feet

Total Well Depth (TWD) 12.00 feet

Length of the water column (LWC=TWD-DGW) 1.80 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 0.32 gals

3 casing volume (3 X CV)= 0.96 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1520</u>
pH (s.u.)	<u>4.57</u>						
Specific Conductivity (µmhos/cm)	<u>1014</u>						
Water Temperature (°C)	<u>13.6</u>						
Dissolved Oxygen	<u>8.95</u>						
PID readings, if required							

Remarks: went dry after 1 and 1/2 bails

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. 1854 Conductivity Meter serial no. 1854

pH=4.0 ±0.002 PH@25°C standard 4.49 ms/cm

pH=7.0 _____ standard _____

pH=10.0 _____ standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocer

Site ID#: 03439 Monitoring Well # DW-1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 24.00 feet

Total Well Depth (TWD) 45.00 feet

Length of the water column (LWC=TWD-DGW) 21.0 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 3.4 gals

3 casing volume (3 X CV)= 10.2 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1600</u>
pH (s.u.)	<u>4.74</u>	<u>5.34</u>	<u>5.31</u>	<u>5.29</u>			<u>5.31</u>
Specific Conductivity (µmhos/cm)	<u>1030</u>	<u>1032</u>	<u>1032</u>	<u>1031</u>			<u>1031</u>
Water Temperature (°C)	<u>17.1</u>	<u>16.3</u>	<u>16.9</u>	<u>17.2</u>			<u>16.8</u>
Dissolved Oxygen	<u>7.22</u>	<u>5.98</u>	<u>6.81</u>	<u>7.51</u>			<u>7.77</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.19.03

Field Personnel: V. Chishola

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HONORA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # DW.2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 16.88 feet

Total Well Depth (TWD) 75.00 feet

Length of the water column (LWC=TWD-DGW) 58.12 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 9.4 gals

3 casing volume (3 X CV) = 28.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>0900</u>
pH (s.u.)	<u>6.23</u>	<u>6.51</u>	<u>6.59</u>	<u>6.59</u>			<u>6.48</u>
Specific Conductivity (umhos/cm)	<u>1095</u>	<u>1096</u>	<u>1084</u>	<u>1060</u>			<u>1054</u>
Water Temperature (°C)	<u>14.1</u>	<u>14.2</u>	<u>13.9</u>	<u>15.2</u>			<u>14.7</u>
Dissolved Oxygen	<u>4.32</u>	<u>3.62</u>	<u>6.57</u>	<u>8.58</u>			<u>8.70</u>
PID readings, if required							

Remarks: _____

South Carolina Department of Health and Environmental Control
 Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03
 Field Personnel: V. Chisholm
 General Weather Conditions: SUNNY

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. 1854 Conductivity Meter serial no. 1854
 pH=4.0 ±0.002 PH@25°C standard 4.49 ms/cm
 pH=7.0 _____ standard _____
 pH=10.0 _____ standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocery
 Site ID#: 03439 Monitoring Well # DW.4
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 24.45 feet
 Total Well Depth (TWD) 61.00 feet
 Length of the water column (LWC=TWD-DGW) 36.55 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 5.9 gals
 3 casing volume (3 X CV)= 17.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1630
pH (s.u.)	5.52	5.47	5.51	5.47			5.55
Specific Conductivity (µmhos/cm)	.037	.034	.034	.034			.037
Water Temperature (°C)	16.6	16.0	15.8	16.6			16.7
Dissolved Oxygen	13.27	12.99	12.80	12.16			12.39
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chishola

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>70.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLISA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11 grocer

Site ID#: 03439 ~~Monitoring Well#~~ CK-1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) _____ feet

Total Well Depth (TWD) _____ feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1735
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Sample taken on East side of Reid Drive at base of opening

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

job # 302169

Date (mm/dd/yy): 12.18.03

Field Personnel: V. Chisholm

General Weather Conditions: sunny

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>FU.002 PH@25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE INC FOR HOLLISA Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: hwy 11 grocery

Site ID#: 03439 Monitoring Well # GK.2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) _____ feet

Total Well Depth (TWD) _____ feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1535</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Sample taken near MW-15 south of hwy 11

Appendix F

**Table 4, Summary of December 18, 2003 Laboratory Analytical Results
&
Copies of the Laboratory Analytical Results**

Table 4
Summary of Laboratory Analytical Results
December 18,2003
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)
MW-1	2,200.00	6,200.00	910.00	5,800.00	16,000.00	2,500.00
MW-2	2.20	5.00	1.00	3.00	1.00	5.00
MW-3	1.00	5.00	1.00	3.00	1.00	5.00
MW-4	1,100.00	2,400.00	230.00	1,900.00	1,200.00	250.00
MW-5	2.30	5.00	1.00	3.20	1.30	5.00
MW-6	5,100.00	14,000.00	1,700.00	11,000.00	19,000.00	2,500.00
MW-7	41.00	20.00	1.00	3.00	1.00	5.00
MW-8	10,000.00	27,000.00	3,300.00	18,000.00	14,000.00	2,500.00
MW-9	1.00	5.00	1.00	3.00	1.00	5.00
MW-10	89.00	280.00	74.00	480.00	91.00	25.00
MW-11	1.00	5.00	1.00	3.00	1.00	5.00
MW-12	1.00	5.00	1.00	3.00	1.00	5.00
MW-13	1.00	5.00	1.00	3.00	1.00	5.00
MW-14	3,300.00	11,000.00	2,000.00	11,000.00	4,100.00	500.00
MW-15	1.00	5.00	1.00	3.00	1.00	5.00
DMW-1	1.50	5.00	1.00	4.20	140.00	5.00
DMW-2	1.00	5.00	1.00	3.00	1.00	5.00
DMW-4	1.00	5.00	1.00	3.00	1.00	5.00
CK-1	11.00	18.00	4.10	20.00	9.00	5.00
CK-2	1.00	5.00	1.00	3.00	1.00	5.00

Notes: Samples with Values At Below Detection Limit are Reported at Highest Detection Limit
 MW-8 was Observed to have the Presence of a Sheen of Free Product



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L139059-01

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Site ID : 03439

Sample ID : MW-1

Project # : 302-169

Collected By : V Chisholm
Collection Date : 12/18/03 13:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	2200	500	ug/l	8260B	12/23/03	500
Toluene	6200	2500	ug/l	8260B	12/23/03	500
Ethylbenzene	910	500	ug/l	8260B	12/23/03	500
Total Xylenes	5800	1500	ug/l	8260B	12/23/03	500
Methyl tert-butyl ether	16000	500	ug/l	8260B	12/23/03	500
Naphthalene	BDL	2500	ug/l	8260B	12/23/03	500
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	12/23/03	500
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	500
4-Bromofluorobenzene	96.		% Rec.	8260B	12/23/03	500

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Sample ID : MW-2

Collected By : V Chisholm
Collection Date : 12/18/03 13:35

ESC Sample # : L139059-02

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	2.2	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	97.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	92.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L139059-03

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Site ID : 03439

Sample ID : MW-3

Project # : 302-169

Collected By : V Chisholm
Collection Date : 12/18/03 15:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	97.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	92.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-4
Collected By : V Chisholm
Collection Date : 12/18/03 14:15

ESC Sample # : L139059-04
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1100	50.	ug/l	8260B	12/23/03	50
Toluene	2400	250	ug/l	8260B	12/23/03	50
Ethylbenzene	230	50.	ug/l	8260B	12/23/03	50
Total Xylenes	1900	150	ug/l	8260B	12/23/03	50
Methyl tert-butyl ether	1200	50.	ug/l	8260B	12/23/03	50
Naphthalene	BDL	250	ug/l	8260B	12/23/03	50
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	12/23/03	50
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	50
4-Bromofluorobenzene	110		% Rec.	8260B	12/23/03	50

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

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SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-5
Collected By : V Chisholm
Collection Date : 12/18/03 13:50

ESC Sample # : L139059-05
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	2.3	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	3.2	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	1.3	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	96.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Sample ID : MW-6

Collected By : V Chisholm
Collection Date : 12/18/03 14:40

ESC Sample # : L139059-06

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	5100	500	ug/l	8260B	12/23/03	500
Toluene	14000	2500	ug/l	8260B	12/23/03	500
Ethylbenzene	1700	500	ug/l	8260B	12/23/03	500
Total Xylenes	11000	1500	ug/l	8260B	12/23/03	500
Methyl tert-butyl ether	19000	500	ug/l	8260B	12/23/03	500
Naphthalene	BDL	2500	ug/l	8260B	12/23/03	500
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	12/23/03	500
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	500
4-Bromofluorobenzene	92.		% Rec.	8260B	12/23/03	500

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-7
Collected By : V Chisholm
Collection Date : 12/18/03 15:00

ESC Sample # : L139059-07
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	41.	1.0	ug/l	8260B	12/23/03	1
Toluene	20.	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	94.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	93.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A21A - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L139059-08

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Site ID : 03439

Sample ID : MW-8

Project # : 302-169

Collected By : V Chisholm
Collection Date : 12/18/03 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	10000	500	ug/l	8260B	12/23/03	500
Toluene	27000	2500	ug/l	8260B	12/23/03	500
Ethylbenzene	3300	500	ug/l	8260B	12/23/03	500
Total Xylenes	18000	1500	ug/l	8260B	12/23/03	500
Methyl tert-butyl ether	14000	500	ug/l	8260B	12/23/03	500
Naphthalene	BDL	2500	ug/l	8260B	12/23/03	500
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	12/23/03	500
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	500
4-Bromofluorobenzene	94.		% Rec.	8260B	12/23/03	500

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-9
Collected By : V Chisholm
Collection Date : 12/18/03 17:00

ESC Sample # : L139059-09

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	96.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	93.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-10
Collected By : V Chisholm
Collection Date : 12/18/03 14:25

ESC Sample # : L139059-10

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	89.	5.0	ug/l	8260B	12/23/03	5
Toluene	280	25.	ug/l	8260B	12/23/03	5
Ethylbenzene	74.	5.0	ug/l	8260B	12/23/03	5
Total Xylenes	480	15.	ug/l	8260B	12/23/03	5
Methyl tert-butyl ether	91.	5.0	ug/l	8260B	12/23/03	5
Naphthalene	BDL	25.	ug/l	8260B	12/23/03	5
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	12/23/03	5
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	5
4-Bromofluorobenzene	110		% Rec.	8260B	12/23/03	5

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L139059-11

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Site ID : 03439

Sample ID : MW-11

Project # : 302-169

Collected By : V Chisholm
Collection Date : 12/18/03 16:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	97.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	110		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	95.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-12
Collected By : V Chisholm
Collection Date : 12/18/03 17:15

ESC Sample # : L139059-12
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/22/03	1
Toluene	BDL	5.0	ug/l	8260B	12/22/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/22/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/22/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/22/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/22/03	1
Surrogate Recovery						
Toluene-d8	99		% Rec.	8260B	12/22/03	1
Dibromofluoromethane	100		% Rec.	8260B	12/22/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	12/22/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

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KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-13
Collected By : V Chisholm
Collection Date : 12/18/03 15:30

ESC Sample # : L139059-13

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/22/03	1
Toluene	BDL	5.0	ug/l	8260B	12/22/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/22/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/22/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/22/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/22/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	12/22/03	1
Dibromofluoromethane	100		% Rec.	8260B	12/22/03	1
4-Bromofluorobenzene	99.		% Rec.	8260B	12/22/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L139059-14

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Site ID : 03439

Sample ID : MW-14

Project # : 302-169

Collected By : V Chisholm
Collection Date : 12/18/03 17:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	3300	100	ug/l	8260B	12/23/03	100
Toluene	11000	500	ug/l	8260B	12/23/03	100
Ethylbenzene	2000	100	ug/l	8260B	12/23/03	100
Total Xylenes	11000	300	ug/l	8260B	12/23/03	100
Methyl tert-butyl ether	4100	100	ug/l	8260B	12/23/03	100
Naphthalene	BDL	500	ug/l	8260B	12/23/03	100
Surrogate Recovery						
Toluene-d8	99		% Rec.	8260B	12/23/03	100
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	100
4-Bromofluorobenzene	100		% Rec.	8260B	12/23/03	100

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : MW-15
Collected By : V Chisholm
Collection Date : 12/18/03 15:20

ESC Sample # : L139059-15

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	99.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : DW-1
Collected By : V Chisholm
Collection Date : 12/18/03 16:00

ESC Sample # : L139059-16
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1.5	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	4.2	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	140	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	97.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : DW-2
Collected By : V Chisholm
Collection Date : 12/19/03 09:00

ESC Sample # : L139059-17

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	97.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	93.		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : DW-4
Collected By : V Chisholm
Collection Date : 12/18/03 16:30

ESC Sample # : L139059-18
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	97.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	97.		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

December 26, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : December 22, 2003
Description : Hwy 11 Grocery
Sample ID : CK-1
Collected By : V Chisholm
Collection Date : 12/18/03 17:35

ESC Sample # : L139059-19

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	11.	1.0	ug/l	8260B	12/23/03	1
Toluene	18.	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	4.1	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	20.	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	9.0	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	98.		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

December 26, 2003

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SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L139059-20

Date Received : December 22, 2003
Description : Hwy 11 Grocery

Site ID : 03439

Sample ID : CK-2

Project # : 302-169

Collected By : V Chisholm
Collection Date : 12/18/03 15:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/23/03	1
Toluene	BDL	5.0	ug/l	8260B	12/23/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/23/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/23/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	12/23/03	1
Naphthalene	BDL	5.0	ug/l	8260B	12/23/03	1
Surrogate Recovery						
Toluene-d8	99		% Rec.	8260B	12/23/03	1
Dibromofluoromethane	100		% Rec.	8260B	12/23/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	12/23/03	1

Kevin Summar, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Reported: 12/26/03 16:40 Printed: 12/26/03 16:41

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L139059-12	Methyl tert-butyl ether	J4
L139059-13	Methyl tert-butyl ether	J4
L139059-17	Methyl tert-butyl ether	J4
L139059-18	Methyl tert-butyl ether	J4
L139059-19	Methyl tert-butyl ether	J4
L139059-20	Methyl tert-butyl ether	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

Control Limits

2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	79-126	83-119
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	81-114	82-116
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	65-129	72-126

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

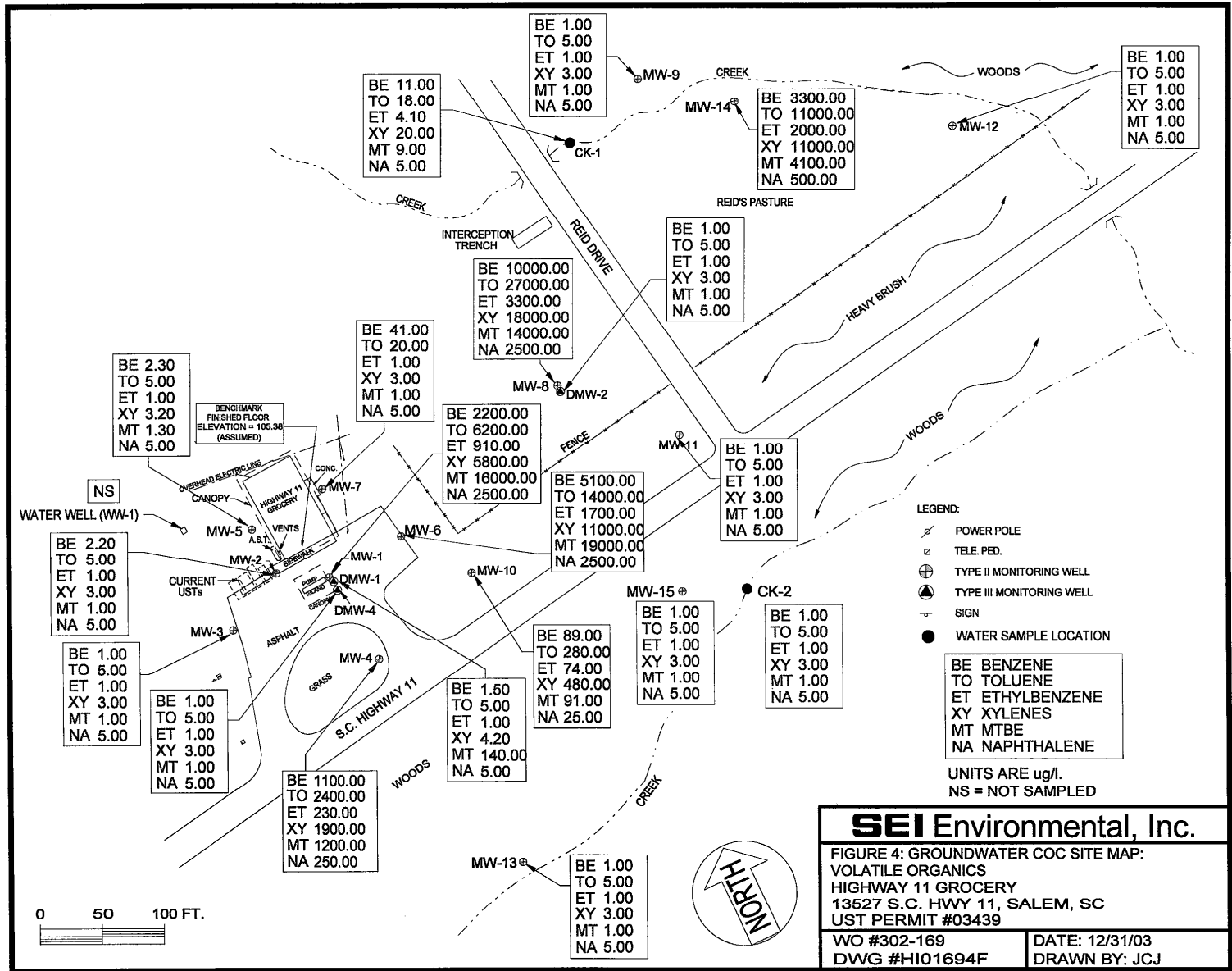
Summary of Remarks For Samples Printed
12/26/03 at 16:41:14

TSR Signing Reports: 641
R4 - Required TAT

Sample: L139059-01 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-02 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-03 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-04 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-05 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-06 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-07 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-08 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-09 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-10 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-11 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-12 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-13 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-14 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-15 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-16 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-17 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-18 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-19 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40
Sample: L139059-20 Account: SEICSC Received: 12/22/03 10:00 Due Date: 12/26/03 00:00 RPT Date: 12/26/03 16:40

Appendix G

**Figure 4, CoC Map based on the December 18, 2003 Laboratory Analytical
Data**



BE 11.00
TO 18.00
ET 4.10
XY 20.00
MT 9.00
NA 5.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 3300.00
TO 11000.00
ET 2000.00
XY 11000.00
MT 4100.00
NA 500.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 41.00
TO 20.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 10000.00
TO 27000.00
ET 3300.00
XY 18000.00
MT 14000.00
NA 2500.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 2.30
TO 5.00
ET 1.00
XY 3.20
MT 1.30
NA 5.00

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)

BE 2200.00
TO 6200.00
ET 910.00
XY 5800.00
MT 16000.00
NA 2500.00

BE 5100.00
TO 14000.00
ET 1700.00
XY 11000.00
MT 19000.00
NA 2500.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 2.20
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 1100.00
TO 2400.00
ET 230.00
XY 1900.00
MT 1200.00
NA 250.00

BE 1.50
TO 5.00
ET 1.00
XY 4.20
MT 140.00
NA 5.00

BE 89.00
TO 280.00
ET 74.00
XY 480.00
MT 91.00
NA 25.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

0 50 100 FT.



Appendix H
Copies of the Non-Hazardous Waste Manifest
&
Certificate for Disposal

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. GK6236

2. Page 1 of

12/19/03

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name

SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone

803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

10. US EPA ID Number

987573557

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

12. Containers
No. Type

02DM

13. Total Quantity

14. Unit Wt/Vol

GENERATOR

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Van Chisholm

Signature

Van Chisholm

Month Day Year

12 19 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

S. Collier

Signature

S. Collier

Month Day Year

12 19 03

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-4593 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 2 Drums
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ~~soil~~^{water} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by S. Sikes

Date 12/19/03

Appendix I

Table 5, Summary of December 18, 2003 System's Effectiveness Analysis

Table 5
Concentration Reduction Calculation
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID		Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Concentration > SSTL (ppb)
MW-1	Initial	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	
	SSTL	22.00	4,497.00	3,148.00	44,969.00	180.00	112.00	
	Initial > SSTL	225,978.00	296,503.00	276,852.00	233,031.00	5,109,820.00	1,888.00	6,144,072.00
	Subsequent*	2,200.00	6,200.00	910.00	5,800.00	16,000.00	2,500.00	
	SSTL	22.00	4,497.00	3,148.00	44,969.00	180.00	112.00	
	Subsequent > SSTL	2,178.00	1,703.00	0.00	0.00	15,820.00	2,388.00	22,089.00
MW-2	Initial	13.00	8.00	1.00	5.00	5.00	5.00	
	SSTL	13.00	8.00	1.00	5.00	5.00	5.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	2.20	5.00	1.00	3.00	1.00	5.00	
	SSTL	13.00	8.00	1.00	5.00	5.00	5.00	
	Subsequent > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MW-3	Initial	1.00	1.00	1.00	1.00	5.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	1.00	5.00	1.00	3.00	1.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Subsequent > SSTL	0.00	4.00	0.00	2.00	0.00	0.00	6.00
MW-4	Initial	1,500.00	5,320.00	620.00	3,360.00	810.00	500.00	
	SSTL	1,500.00	5,320.00	620.00	3,360.00	810.00	500.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	1,100.00	2,400.00	230.00	1,900.00	1,200.00	250.00	
	SSTL	1,500.00	5,320.00	620.00	3,360.00	810.00	500.00	
	Subsequent > SSTL	0.00	0.00	0.00	0.00	390.00	0.00	390.00

DATE	DESCRIPTION	AMOUNT	BALANCE
1951
1952
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THE BOARD OF DIRECTORS
 OF THE UNIVERSITY OF CALIFORNIA
 HAS APPROVED THE FOLLOWING
 RESOLUTIONS:
 PASSED AT THE MEETING OF THE BOARD
 HELD AT BERKELEY, CALIFORNIA
 ON APRIL 14, 1951
 UNIVERSITY OF CALIFORNIA
 1951

Table 5 - Continued
Concentration Reduction Calculation
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID		Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Concentration > SSTL (ppb)
MW-5	Initial	1.00	1.00	1.00	1.00	5.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	2.30	5.00	1.00	3.20	1.30	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Subsequent > SSTL	1.30	4.00	0.00	2.20	0.00	0.00	7.50
MW-6	Initial	1,780.00	4,950.00	490.00	2,880.00	6,350.00	500.00	
	SSTL	1,780.00	4,950.00	490.00	2,880.00	6,350.00	500.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	5,100.00	14,000.00	1,700.00	11,000.00	19,000.00	2,500.00	
	SSTL	1,780.00	4,950.00	490.00	2,880.00	6,350.00	500.00	
	Subsequent > SSTL	3,320.00	9,050.00	1,210.00	8,120.00	12,650.00	2,000.00	36,350.00
MW-7	Initial	34.00	20.00	1.00	8.00	7.00	5.00	
	SSTL	22.00	20.00	1.00	8.00	7.00	5.00	
	Initial > SSTL	12.00	0.00	0.00	0.00	0.00	0.00	12.00
	Subsequent	41.00	20.00	1.00	3.00	1.00	5.00	
	SSTL	22.00	20.00	1.00	8.00	7.00	5.00	
	Subsequent > SSTL	19.00	0.00	0.00	0.00	0.00	0.00	19.00
MW-8	Initial	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	
	SSTL	204.00	40,888.00	28,622.00	278,000.00	1,362.00	1,021.00	
	Initial > SSTL	225,796.00	260,112.00	251,378.00	0.00	5,108,638.00	979.00	5,846,903.00
	Subsequent	10,000.00	27,000.00	3,300.00	18,000.00	14,000.00	2,500.00	
	SSTL	204.00	40,888.00	28,622.00	278,000.00	1,362.00	1,021.00	
	Subsequent > SSTL	9,796.00	0.00	0.00	0.00	12,638.00	1,479.00	23,913.00

DATE	DESCRIPTION	AMOUNT	BALANCE	DATE	DESCRIPTION	AMOUNT	BALANCE
1956-01-01	OPENING BALANCE	100.00	100.00	1956-01-15	PAYROLL	50.00	50.00
1956-01-31	CLOSING BALANCE	50.00	50.00	1956-02-15	PAYROLL	50.00	0.00
1956-02-28	CLOSING BALANCE	0.00	0.00	1956-03-15	PAYROLL	50.00	50.00
1956-03-31	CLOSING BALANCE	50.00	50.00	1956-04-15	PAYROLL	50.00	0.00
1956-04-30	CLOSING BALANCE	0.00	0.00	1956-05-15	PAYROLL	50.00	50.00
1956-05-31	CLOSING BALANCE	50.00	50.00	1956-06-15	PAYROLL	50.00	0.00
1956-06-30	CLOSING BALANCE	0.00	0.00	1956-07-15	PAYROLL	50.00	50.00
1956-07-31	CLOSING BALANCE	50.00	50.00	1956-08-15	PAYROLL	50.00	0.00
1956-08-31	CLOSING BALANCE	0.00	0.00	1956-09-15	PAYROLL	50.00	50.00
1956-09-30	CLOSING BALANCE	50.00	50.00	1956-10-15	PAYROLL	50.00	0.00
1956-10-31	CLOSING BALANCE	0.00	0.00	1956-11-15	PAYROLL	50.00	50.00
1956-11-30	CLOSING BALANCE	50.00	50.00	1956-12-15	PAYROLL	50.00	0.00
1956-12-31	CLOSING BALANCE	0.00	0.00				

THE COMPANY
 BANK OF AMERICA
 1000 MAIN STREET
 WASHINGTON, D.C.

1956-01-01
 1956-12-31

Table 5 - Continued
Concentration Reduction Calculation
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit #03439

Sample ID		Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Concentration > SSTL (ppb)
DMW-2	Initial	1.00	1.00	1.00	1.00	5.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	1.00	5.00	1.00	3.00	1.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Subsequent > SSTL	0.00	4.00	0.00	2.00	0.00	0.00	6.00
DMW-4	Initial	1.00	1.00	1.00	1.00	5.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Initial > SSTL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Subsequent	1.00	5.00	1.00	3.00	1.00	5.00	
	SSTL	1.00	1.00	1.00	1.00	5.00	5.00	
	Subsequent > SSTL	0.00	4.00	0.00	2.00	0.00	0.00	6.00
Totals	Initial > SSTL	(Sum of Initial Concentration Above SSTL for all Wells)						12,046,007.00
	Subsequent > SSTL	(Sum of Subsequent Concentration Above SSTL for all Wells)						103,196.50

CoC Mass Reduction = (Sum of Initial Conc. > SSTL - Sum of Subsequent Conc. > SSTL) / (Sum of Initial Conc. > SSTL) * 100

CoC Mass Reduction = (12,046,007.00-103,196.50) / (12,046,007.00) * 100

CoC Mass Reduction = 99.14%

Notes: MW-1 was Observed to have Free Product Resulting in No Sample Collection; Initial Results used for Subsequent Results

SEI
Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

34-Tech

RECEIVED
JUL 15 2003
Underground Storage
Tank Program

July 14, 2003

Konstantine Akhvlediani
Hydrogeologist / Project Manager
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

Re: Summary of Corrective Action and Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

Dear Mr. Akhvlediani:

SEI Environmental, Inc. (SEI) summary of gauging results and laboratory analytical results for samples collected for the month of July 2003. Attached, Appendix A, are a topographic map depicting the location of the site and a site map illustrating the location of the monitoring wells.

May 7, 2002, fourteen samples were collected from the monitoring wells onsite. The samples collected were analyzed for Benzene, Toluene, Ethylbenzene, Xylene, Methyl Tert-butyl Ether, and Naphthalene. Attached in Appendix B is Table 1, which summarizes the May 7, 2002 laboratory analytical results.

July 1, 2003, SEI personnel gauged, purged, field screened and collected samples from 21 sample points. The findings of the gauging event were the presence of free product in MW-1 and MW-8 and no evidence of free product in the remaining 19 points. MW-1 was observed to have 0.24 feet of free product and MW-8 was observed to have 0.60 feet of free product. Attached in Appendix C is Table 2, which summarizes the July 1, 2003 gauging results and field screening observations. Attached in Appendix D are copies of SCDHEC Field Data Information Sheet for Groundwater Sampling.

Upon completion of gauging and purging of the sample points, a representative sample was collected from each sample point. Each sample was submitted to Environmental Science Laboratory in Nashville, Tennessee for analysis for Benzene, Toluene, Ethylbenzene, Xylene (BTEX) by EPA method 8260B, Methyl Tert-butyl Ether (MTBE)


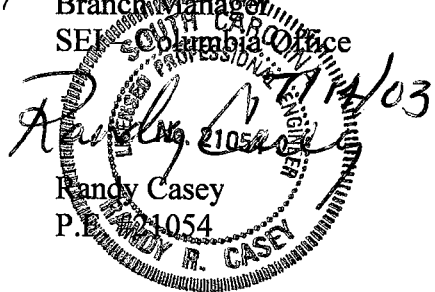
by EPA method 8260B, and Naphthalene by EPA method 8260B. Attached in Appendix E is Table 3, which summarizes the laboratory analytical results. Attached in Appendix F are copies of the laboratory analytical results and a copy of the Chain of Custody.

July 2, 2003, 122.89 gallons of petroleum-impacted water, which was generated from the purging of the sample points was disposed at G & K Tank Services, Inc.; located in Sumter, SC. Attached in Appendix G are copies of the Non-Hazardous Waste Manifest and Certificate for Disposal for 122.89 gallons of petroleum-impacted water.

SEI is presently awaiting approval and a Notice to Proceed for the installation of the hydrogen peroxide injection system (trade name "Per-Petual", US patent application serial number 60/357,550) from the South Carolina Division of Water. SEI submits upon receiving the Notice to Proceed from the SC Division of Water, SEI will initiate corrective action activities via the "Per-Petual" hydrogen peroxide system. Once the system has been operational for a nominal length of time, SEI will collect groundwater samples from the sample points and will submit a subsequent report detailing the laboratory analytical data.

If you have any questions and / or comments, concerning the information provided in this document, please contact John Paul Bekish at (803) 788-2535.

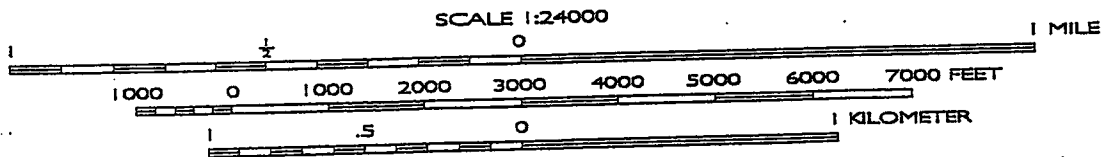
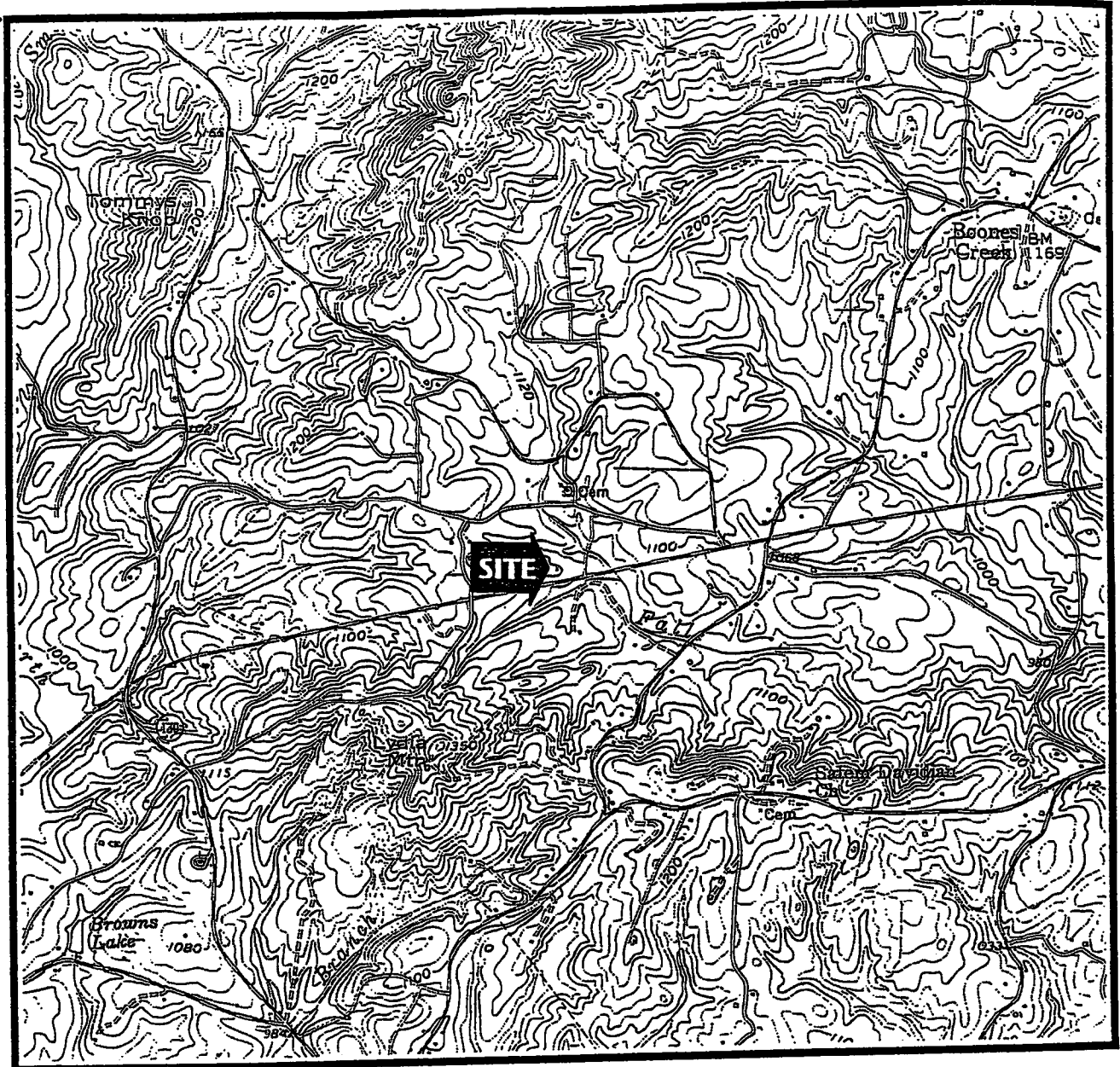
Sincerely,


John Paul Bekish
Branch Manager
SEI Columbia Office
7/14/03

Randy Casey
P.E. No. 21054
RANDY R. CASEY

Attachment(s)

CC: Steven Smith, Hwy 11 Property Owner
SEI Project Files

Appendix A
Topographic Map and Site Map



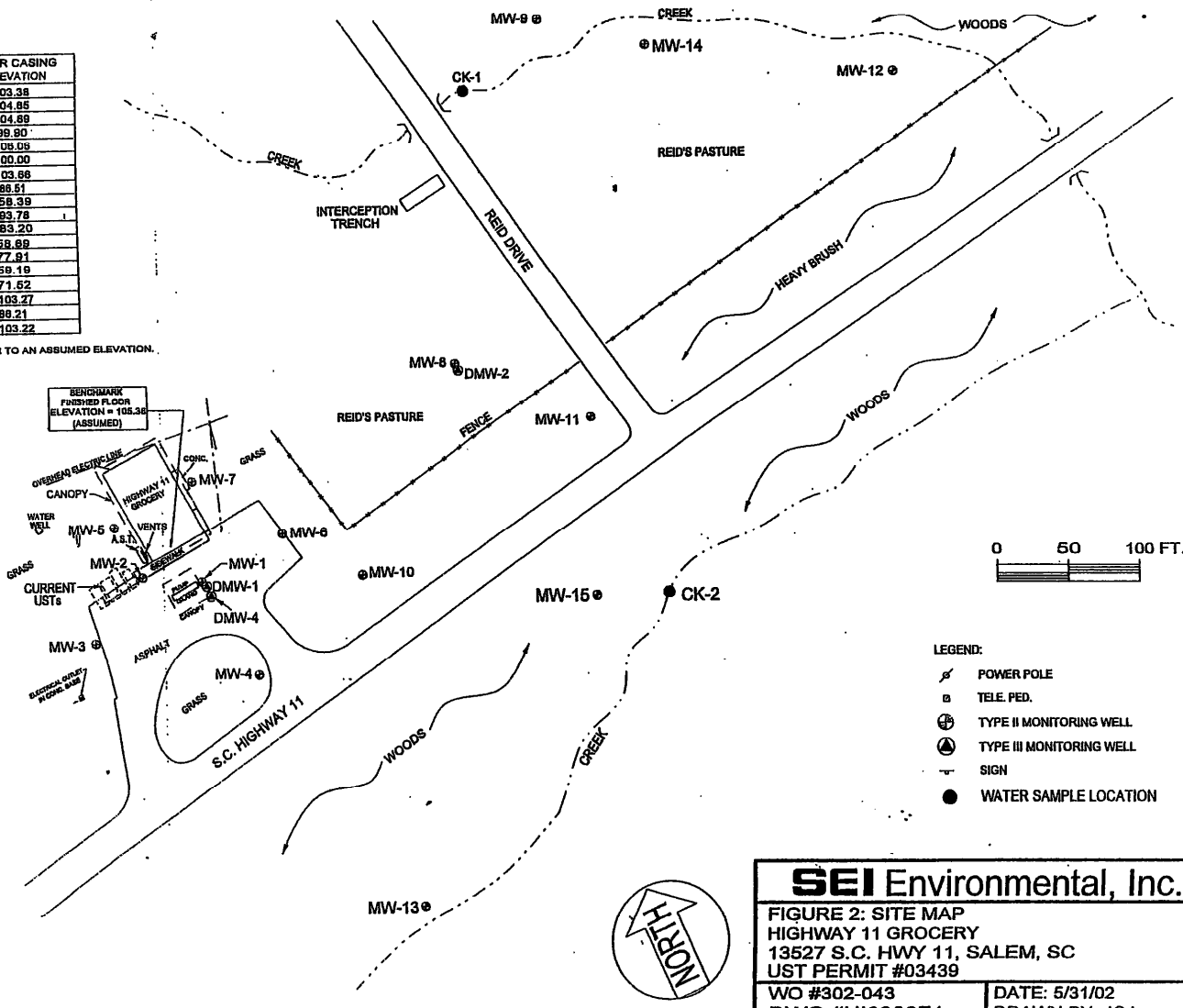
SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: JCI
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WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.80
MW-5	108.08
MW-6	100.00
MW-7	103.88
MW-8	98.51
MW-9	58.39
MW-10	83.78
MW-11	83.20
MW-12	58.89
MW-13	77.81
MW-14	69.19
MW-15	71.62
DMW-1	103.27
DMW-2	89.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.

FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #302-043
 DWG #HI0388F1

DATE: 5/31/02
 DRAWN BY: JCJ

Appendix B

Table 1 – Summary of May 7, 2002 Laboratory Analytical Data

Table 1
May 7, 2002 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	Total Conc. (ppb)
MW-1	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	6,197,000.00
MW-2	13.00	8.00	1.00	5.00	5.00	5.00	37.00
MW-3	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-4	1,500.00	5,320.00	620.00	3,360.00	810.00	500.00	12,110.00
MW-5	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-6	1,780.00	4,950.00	490.00	2,880.00	6,350.00	500.00	16,950.00
MW-7	34.00	20.00	1.00	8.00	7.00	5.00	75.00
MW-8	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	6,197,000.00
MW-10	115.00	185.00	68.00	328.00	86.00	9.00	791.00
MW-11	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-14	3,780.00	13,800.00	27,000.00	14,700.00	7,010.00	500.00	66,790.00
DMW-1	215.00	430.00	50.00	50.00	1,780.00	250.00	2,775.00
DMW-2	1.00	1.00	1.00	1.00	5.00	5.00	14.00
DMW-4	1.00	1.00	1.00	1.00	5.00	5.00	14.00
Initial Conc.	459,442.00	626,718.00	588,235.00	577,336.00	10,236,073.00	5,794.00	12,493,598.00
SSTL Conc.	3,881.00	57,303.00	33,705.00	339,605.00	10,645.00	2,452.00	447,591.00
Initial Conc. Above SSTL	455,561.00	569,415.00	554,530.00	237,731.00	10,225,428.00	3,342.00	12,046,007.00

Appendix C

Table 2 – Summary of July 1, 2003 Gauging and Field Screening Activities

Table 2 - Continued
Summary of Field Observations - July 1, 2003
Highway 11 Grocery
13527 South Carolina Highway
Salem, South Carolina
UST Permit # 03439

Sample ID	Frequency	Depth to Product (Feet)	Free Product Thickness (Feet)	Depth to Groundwater (Feet)	Total Well Depth (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temp. (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-11	Post Sampling				23.00	4.85	0.015	18.10	5.20		Full Recharge
MW-12	Initial			3.10	12.00	4.94	0.036	19.80	2.46		
MW-12	1st Volume				12.00	4.81	0.016	18.20	2.21	1.40	
MW-12	2nd Volume				12.00	4.64	0.016	18.30	2.21	1.40	
MW-12	3rd Volume				12.00	N/A	N/A	N/A	N/A	1.50	Full Recharge
MW-13	Initial			6.44	N/A	5.48	0.022	18.50	4.28		
MW-13	1st Volume				N/A	5.42	0.021	18.70	4.21	1.30	
MW-13	2nd Volume				N/A	5.47	0.021	18.50	4.17	1.30	
MW-13	3rd Volume				N/A	5.40	0.020	18.20	4.22	1.50	
MW-13	Post Sampling				N/A	5.42	0.022	18.50	4.28		Full Recharge
MW-14	Initial			1.92	10.00	N/A	N/A	N/A	N/A	3.90	Strong Odor
MW-15	Initial			10.83	12.00	N/A	N/A	N/A	N/A	0.57	Low Volume
DMW-1	Initial			22.97	45.00	N/A	N/A	N/A	N/A	10.70	Strong Odor
DMW-2	Initial			16.44	75.00	5.93	0.083	15.80	6.23		
DMW-2	1st Volume				75.00	6.27	0.083	16.40	6.46	9.50	
DMW-2	2nd Volume				75.00	6.49	0.083	16.70	0.07	9.50	
DMW-2	3rd Volume				75.00	6.49	0.059	16.40	6.89	9.60	
DMW-2	Post Sampling				75.00	6.50	0.057	16.40	6.78		Full Recharge
DMW-3	Initial			23.32	60.00	5.76	0.079	18.70	6.81		
DMW-3	1st Volume				60.00	5.60	0.037	18.10	7.50	5.90	
DMW-3	2nd Volume				60.00	5.39	0.037	18.00	7.12	5.90	
DMW-3	3rd Volume				60.00	5.48	0.040	17.90	7.14	6.10	
DMW-3	Post Sampling				60.00	5.47	0.041	17.90	7.17		Full Recharge

Notes: N/A = Not Applicable

Table 2
Summary of Field Observations - July 1, 2003
Highway 11 Grocery
13527 South Carolina Highway
Salem, South Carolina
UST Permit # 03439

Sample ID	Frequency	Depth to Product (Feet)	Free Product Thickness (Feet)	Depth to Groundwater (Feet)	Total Well Depth (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temp. (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-1	Initial	23.04	0.24	23.28	30.00	N/A	N/A	N/A	N/A	3.20	Free Product
MW-2	Initial			24.08	35.00	N/A	N/A	N/A	N/A	5.30	Strong Odor
MW-3	Initial			22.51	30.00	4.74	0.022	20.20	5.58		
MW-3	1st Volume				30.00	4.56	0.019	18.10	5.99	1.22	
MW-3	2nd Volume				30.00	4.49	0.018	17.40	6.40	1.22	
MW-3	3rd Volume				30.00	4.48	0.017	17.20	6.33	1.16	
MW-3	Post Sampling				30.00	4.39	0.016	17.10	6.35		Full Recharge
MW-4	Initial			22.10	35.00	N/A	N/A	N/A	N/A	6.30	Strong Odor
MW-5	Initial			26.82	35.00	4.30	0.067	17.70	6.15		
MW-5	1st Volume				35.00	4.04	0.017	17.30	6.56	1.30	
MW-5	2nd Volume				35.00	3.97	0.014	17.20	6.61	1.30	
MW-5	3rd Volume				35.00	3.93	0.014	17.10	6.81	1.40	
MW-5	Post Sampling				35.00	3.97	0.015	17.10	6.68		Full Recharge
MW-6	Initial			19.77	35.00	N/A	N/A	N/A	N/A	7.40	Strong Odor
MW-7	Initial			26.55	40.00	N/A	N/A	N/A	N/A	6.50	Strong Odor
MW-8	Initial	20.36	0.60	20.96	30.00	N/A	N/A	N/A	N/A	4.42	Free Product
MW-9	Initial			2.30	12.00	5.52	0.073	17.30	5.78		
MW-9	1st Volume				12.00	5.73	0.033	17.60	6.94	1.50	
MW-9	2nd Volume				12.00	5.22	0.032	19.30	5.91	1.50	
MW-9	3rd Volume				12.00	4.96	0.033	19.60	5.08	1.70	
MW-9	Post Sampling				12.00	4.86	0.034	19.70	5.13		Full Recharge
MW-10	Initial			16.20	24.00	N/A	N/A	N/A	N/A	3.80	Strong Odor
MW-11	Initial			15.93	23.00	5.73	0.024	20.50	5.07		
MW-11	1st Volume				23.00	5.41	0.020	19.00	5.23	1.10	
MW-11	2nd Volume				23.00	5.19	0.018	18.50	4.41	1.10	

Appendix D
July 1, 2003 Field Data Information Sheet(s) for Groundwater Sampling

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 PH@25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONRA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: my 11 Grocery

Site ID#: ~~03403439~~ Monitoring Well # 1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .24 feet

Depth to Ground Water (DGW) 23.28 feet

Total Well Depth (TWD) 30.00 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.0 gals
3 casing volume (3 X CV)= 3.2 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1515</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03
 Field Personnel: VC, KD, JW
 General Weather Conditions: cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>+0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11
 Site ID#: 03439 Monitoring Well # 2
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 24.08 feet
 Total Well Depth (TWD) 35.00 feet
 Length of the water column (LWC=TWD-DGW) 10.92 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.72 gals
 3 casing volume (3 X CV)= 5.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1525</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: test well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>±0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 3

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 0 feet

Depth to Ground Water (DGW) 22.51 feet

Total Well Depth (TWD) 30.02 feet

Length of the water column (LWC=TWD-DGW) 7.49 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.22 gals
3 casing volume (3 X CV)= 3.6 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1520</u>
pH (s.u.)	<u>4.74</u>	<u>4.56</u>	<u>4.47</u>	<u>4.48</u>			<u>4.39</u>
Specific Conductivity (µmhos/cm)	<u>.022</u>	<u>.019</u>	<u>.018</u>	<u>.017</u>			<u>.016</u>
Water Temperature (°C)	<u>20.2</u>	<u>18.1</u>	<u>17.4</u>	<u>17.2</u>			<u>17.1</u>
Dissolved Oxygen	<u>5.58</u>	<u>5.99</u>	<u>6.40</u>	<u>6.33</u>			<u>6.35</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 4

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): _____ feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.10 feet

Total Well Depth (TWD) 35.00 feet

Length of the water column (LWC=TWD-DGW) 12.9 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.1 gals

3 casing volume (3 X CV) = 6.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							<u>1445</u>
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: KC KP, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 PH@25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 5

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): _____ feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 26.82 feet

Total Well Depth (TWD) 35.00 feet

Length of the water column (LWC=TWD-DGW) 8.18 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.3 gals
3 casing volume (3 X CV)= 4.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1500
pH (s.u.)	4.30	4.04	3.97	3.93			3.87
Specific Conductivity (µmhos/cm)	067	017	014	014			015
Water Temperature (°C)	17.7	17.3	17.2	17.1			17.1
Dissolved Oxygen	6.15	6.56	6.61	6.81			6.68
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>+0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONRA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 6

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): _____ feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 19.77 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 15.23 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.4 gals
3 casing volume (3 X CV) = 7.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u> pH=4.0 <u>+0.002 pH @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>1854</u> standard <u>4.49ms/AC</u> standard _____ standard _____
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AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONORA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 7

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 26.55 feet

Total Well Depth (TWD) 40 feet

Length of the water column (LWC=TWD-DGW) 13.45 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.1 gals
3 casing volume (3 X CV) = 6.5 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							<u>1910</u>
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: but well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>±0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONORABLE Chain of Custody

Relinquished by _____ Date/Time _____

Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 8

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .60 feet

Depth to Ground Water (DGW) 20.96 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 9.04 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.47 gals

3 casing volume (3 X CV) = 4.42 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 4.42 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not well / FP

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 9

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.30 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) 9.7 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.5 gals

3 casing volume (3 X CV) = 4.7 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1645</u>
pH (s.u.)	<u>5.52</u>	<u>5.73</u>	<u>5.22</u>	<u>7.96</u>			<u>4.86</u>
Specific Conductivity (µmhos/cm)	<u>.073</u>	<u>.033</u>	<u>.032</u>	<u>.033</u>			<u>.034</u>
Water Temperature (°C)	<u>17.3</u>	<u>17.6</u>	<u>19.3</u>	<u>19.6</u>			<u>19.7</u>
Dissolved Oxygen	<u>5.78</u>	<u>6.94</u>	<u>5.91</u>	<u>5.08</u>			<u>5.13</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED PINE ENVIRONMENTAL SERVICE FOR HONBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 10

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 16.20 feet

Total Well Depth (TWD) 24.0 feet

Length of the water column (LWC=TWD-DGW) 7.8 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.2 gals

3 casing volume (3 X CV) = 3.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							<u>1430</u>
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VG, KB, JW

General Weather Conditions: Rainy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u> pH=4.0 <u>± 0.002 pH @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>1854</u> standard <u>4.49ms/AC</u> standard _____ standard _____
--	---

AUTO CAL. SOLUTION PROVIDED PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 302169 Monitoring Well # 11

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 15.93 feet

Total Well Depth (TWD) 23 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.1 gals
3 casing volume (3 X CV)= 3.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	<u>pH - 5.73</u>	<u>5.41</u>	<u>5.19</u>	<u>5.02</u>			<u>1720</u>
pH (s.u.)							<u>485</u>
Specific Conductivity (umhos/cm)	<u>0.24</u>	<u>0.20</u>	<u>0.18</u>	<u>0.16</u>			<u>0.15</u>
Water Temperature (°C)	<u>20.5</u>	<u>19.0</u>	<u>18.5</u>	<u>18.2</u>			<u>18.1</u>
Dissolved Oxygen	<u>5.07</u>	<u>5.23</u>	<u>4.91</u>	<u>5.21</u>			<u>5.20</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 12

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): _____ feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 3.10 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) 8.9 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 6.4 gals
3 casing volume (3 X CV)= 4.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1515</u>
pH (s.u.)	<u>7.4</u>	<u>6.81</u>	<u>6.64</u>				
Specific Conductivity (µmhos/cm)	<u>256</u>	<u>104</u>	<u>106</u>				
Water Temperature (°C)	<u>22.8</u>	<u>22</u>	<u>18.3</u>				
Dissolved Oxygen	<u>2.46</u>	<u>2.21</u>	<u>2.31</u>				
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC KB, JW

General Weather Conditions: Rainy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>±0.002 PH@28°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONORABLE Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 302169 Monitoring Well # 13

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 6.44 feet

Total Well Depth (TWD) _____ feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.3 gals

3 casing volume (3 X CV)= 4.1 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1630</u>
pH (s.u.)	<u>5.48</u>	<u>5.42</u>	<u>5.47</u>	<u>5.40</u>			<u>5.42</u>
Specific Conductivity (µmhos/cm)	<u>.022</u>	<u>.021</u>	<u>.021</u>	<u>.020</u>			<u>.022</u>
Water Temperature (°C)	<u>18.5</u>	<u>18.7</u>	<u>18.5</u>	<u>18.2</u>			<u>18.5</u>
Dissolved Oxygen	<u>4.28</u>	<u>4.21</u>	<u>4.17</u>	<u>4.22</u>			<u>4.28</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u> pH=4.0 <u>± 0.002 PH @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>1854</u> standard <u>4.49ms/AC</u> standard _____ standard _____
--	---

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONRA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 14

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 1.92 feet

Total Well Depth (TWD) 10 feet

Length of the water column (LWC=TWD-DGW) 8.08 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.3 gals
3 casing volume (3 X CV) = 3.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1530</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>+0.002 pH @ 28°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # 15

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2 feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 10.83 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) 1.17 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .19 gals
3 casing volume (3 X CV) = .57 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1410</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not returned, insufficient volume

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u> pH=4.0 <u>+0.002 PH@28°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>1854</u> standard <u>4.49ms/AC</u> standard _____ standard _____
---	---

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONDA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # PMW.1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.97 feet

Total Well Depth (TWD) 45 feet

Length of the water column (LWC=TWD-DGW) 22.03 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 3.5 gals
3 casing volume (3 X CV)= 10.7 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							<u>1550</u>
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KB, JW

General Weather Conditions: Cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 pH @ 25°C</u>	standard <u>4.49ms/mal</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # DMW.2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 16.44 feet

Total Well Depth (TWD) 75.00 feet

Length of the water column (LWC=TWD-DGW) 58.5 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 9.5 gals
3 casing volume (3 X CV) = 28.6 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 28.6 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1730</u>
pH (s.u.)	<u>5.93</u>	<u>6.27</u>	<u>6.49</u>	<u>6.49</u>			<u>6.50</u>
Specific Conductivity (µmhos/cm)	<u>.083</u>	<u>.083</u>	<u>.083</u>	<u>.059</u>			<u>.059</u>
Water Temperature (°C)	<u>15.8</u>	<u>16.4</u>	<u>16.7</u>	<u>16.4</u>			<u>16.4</u>
Dissolved Oxygen	<u>6.23</u>	<u>6.46</u>	<u>6.07</u>	<u>6.84</u>			<u>6.78</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 7.1.03

Field Personnel: VC, KA, JW

General Weather Conditions: cloudy

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 PH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED FOR HONBA PINE ENVIRONMENTAL SERVICE Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: hwy 11

Site ID#: 03439 Monitoring Well # DMW-4

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2' feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 23.32 feet

Total Well Depth (TWD) 60.0 feet

Length of the water column (LWC=TWD-DGW) 36.68 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 5.9 gals

3 casing volume (3 X CV) = 17.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1400</u>
pH (s.u.)	<u>5.76</u>	<u>5.60</u>	<u>5.39</u>	<u>5.18</u>			<u>5.47</u>
Specific Conductivity (µmhos/cm)	<u>.049</u>	<u>.037</u>	<u>.037</u>	<u>.040</u>			<u>.041</u>
Water Temperature (°C)	<u>18.7</u>	<u>18.1</u>	<u>18.0</u>	<u>17.9</u>			<u>17.9</u>
Dissolved Oxygen	<u>6.81</u>	<u>7.50</u>	<u>7.12</u>	<u>7.14</u>			<u>7.17</u>
PID readings, if required							

Remarks: _____

Appendix E

Table 3 – Summarizes July 1, 2003 Laboratory Analytical Data

Table 3
July 1, 2003 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)
MW-1	10,000.00	34,000.00	4,400.00	23,000.00	34,000.00	<1200.00
MW-2	4.70	<5.00	<1.00	<3.00	<1.00	<5.00
MW-3	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-4	4,800.00	14,000.00	2,300.00	12,000.00	2,600.00	<500.00
MW-5	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-6	2,200.00	6,600.00	820.00	4,400.00	12,000.00	<2500.00
MW-7	37.00	36.00	1.70	20.00	9.20	<5.00
MW-8	12,000.00	51,000.00	7,800.00	40,000.00	11,000.00	<2500.00
MW-9	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-10	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-11	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-12	<1.00	<5.00	<1.00	<3.00	1.00	<5.00
MW-13	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-14	3,500.00	10,000.00	1,900.00	10,000.00	5,300.00	<500.00
MW-15	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
DMW-1	<1.00	<5.00	<1.00	<3.00	6.40	<5.00
DMW-2	<1.00	12.00	5.50	25.00	<1.00	<5.00
DMW-4	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
CK-1	2.60	<5.00	<1.00	4.80	4.50	<5.00
CK-2	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
WW-1	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00

Appendix F
July 1, 2003 Laboratory Analytical Report



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-1
Collected By : VC-JW-KB
Collection Date : 07/01/03 15:15

ESC Sample # : L119527-01

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	10000	250	ug/l	8260B	07/06/03	250
Toluene	34000	1200	ug/l	8260B	07/06/03	250
Ethylbenzene	4400	250	ug/l	8260B	07/06/03	250
Total Xylenes	23000	750	ug/l	8260B	07/06/03	250
Methyl tert-butyl ether	34000	250	ug/l	8260B	07/06/03	250
Naphthalene	BDL	1200	ug/l	8260B	07/06/03	250
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/06/03	250
Dibromofluoromethane	110		% Rec.	8260B	07/06/03	250
4-Bromofluorobenzene	100		% Rec.	8260B	07/06/03	250

Leslie Newton
Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
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Reported: 07/09/03 15:15 Printed: 07/09/03 15:16



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-2
Collected By : VC-JW-KB
Collection Date : 07/01/03 15:25

ESC Sample # : L119527-02

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4.7	1.0	ug/l	8260B	07/09/03	1
Toluene	BDL	5.0	ug/l	8260B	07/09/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/09/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/09/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/09/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/09/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/09/03	1
Dibromofluoromethane	99		% Rec.	8260B	07/09/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/09/03	1

Leslie Newton

Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Data Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-3
Collected By : VC-JW-KB
Collection Date : 07/01/03 15:30

ESC Sample # : L119527-03

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/06/03	1
Toluene	BDL	5.0	ug/l	8260B	07/06/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/06/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/06/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/06/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/06/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/06/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/06/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/06/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-4
Collected By : VC-JW-KB
Collection Date : 07/01/03 14:45

ESC Sample # : L119527-04
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4800	100	ug/l	8260B	07/06/03	100
Toluene	14000	500	ug/l	8260B	07/06/03	100
Ethylbenzene	2300	100	ug/l	8260B	07/06/03	100
Total Xylenes	12000	300	ug/l	8260B	07/06/03	100
Methyl tert-butyl ether	2600	100	ug/l	8260B	07/06/03	100
Naphthalene	BDL	500	ug/l	8260B	07/06/03	100
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/06/03	100
Dibromofluoromethane	110		% Rec.	8260B	07/06/03	100
4-Bromofluorobenzene	110		% Rec.	8260B	07/06/03	100


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-5
Collected By : VC-JW-KB
Collection Date : 07/01/03 15:00

ESC Sample # : L119527-05

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/06/03	1
Toluene	BDL	5.0	ug/l	8260B	07/06/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/06/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/06/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/06/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/06/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/06/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/06/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/06/03	1

Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L119527-06

Date Received : July 03, 2003
Description : Highway 11 Grocery

Site ID : 03439

Sample ID : MW-6

Project # : 302-169

Collected By : VC-JW-KB
Collection Date : 07/01/03 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	2200	500	ug/l	8260B	07/09/03	500
Toluene	6600	2500	ug/l	8260B	07/09/03	500
Ethylbenzene	820	500	ug/l	8260B	07/09/03	500
Total Xylenes	4400	1500	ug/l	8260B	07/09/03	500
Methyl tert-butyl ether	12000	500	ug/l	8260B	07/09/03	500
Naphthalene	BDL	2500	ug/l	8260B	07/09/03	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/09/03	500
Dibromofluoromethane	100		% Rec.	8260B	07/09/03	500
4-Bromofluorobenzene	100		% Rec.	8260B	07/09/03	500

Leslie Newton
Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L119527-07

Date Received : July 03, 2003
Description : Highway 11 Grocery

Site ID : 03439

Sample ID : MW-7

Project # : 302-169

Collected By : VC-JW-KB
Collection Date : 07/01/03 14:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	37.	1.0	ug/l	8260B	07/07/03	1
Toluene	36.	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	1.7	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	20.	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	9.2	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1

Leslie Newton
Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-8
Collected By : VC-JW-KB
Collection Date : 07/01/03 17:00

ESC Sample # : L119527-08

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	12000	500	ug/l	8260B	07/07/03	500
Toluene	51000	2500	ug/l	8260B	07/07/03	500
Ethylbenzene	7800	500	ug/l	8260B	07/07/03	500
Total Xylenes	40000	1500	ug/l	8260B	07/07/03	500
Methyl tert-butyl ether	11000	500	ug/l	8260B	07/07/03	500
Naphthalene	BDL	2500	ug/l	8260B	07/07/03	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	500
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	500
4-Bromofluorobenzene	110		% Rec.	8260B	07/07/03	500


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-9
Collected By : VC-JW-KB
Collection Date : 07/01/03 16:45

ESC Sample # : L119527-09
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L119527-10

Date Received : July 03, 2003
Description : Highway 11 Grocery

Site ID : 03439

Sample ID : MW-10

Project # : 302-169

Collected By : VC-JW-KB
Collection Date : 07/01/03 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-11
Collected By : VC-JW-KB
Collection Date : 07/01/03 17:20

ESC Sample # : L119527-11
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	100		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1

Leslie Newton

Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-12
Collected By : VC-JW-KB
Collection Date : 07/01/03 15:15

ESC Sample # : L119527-12

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	1.0	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L119527-13

Date Received : July 03, 2003
Description : Highway 11 Grocery

Site ID : 03439

Sample ID : MW-13

Project # : 302-169

Collected By : VC-JW-KB
Collection Date : 07/01/03 16:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1

Leslie Newton
Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery

ESC Sample # : L119527-14

Sample ID : MW-14

Site ID : 03439

Collected By : VC-JW-KB
Collection Date : 07/01/03 15:30

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	3500	100	ug/l	8260B	07/07/03	100
Toluene	10000	500	ug/l	8260B	07/07/03	100
Ethylbenzene	1900	100	ug/l	8260B	07/07/03	100
Total Xylenes	10000	300	ug/l	8260B	07/07/03	100
Methyl tert-butyl ether	5300	100	ug/l	8260B	07/07/03	100
Naphthalene	BDL	500	ug/l	8260B	07/07/03	100
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	100
Dibromofluoromethane	100		% Rec.	8260B	07/07/03	100
4-Bromofluorobenzene	110		% Rec.	8260B	07/07/03	100


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : MW-15
Collected By : VC-JW-KB
Collection Date : 07/01/03 16:10

ESC Sample # : L119527-15

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : DMW-1
Collected By : VC-JW-KB
Collection Date : 07/01/03 15:50

ESC Sample # : L119527-16

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	6.4	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1

Leslie Newton

Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Est. 1970

REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L119527-17

Date Received : July 03, 2003
Description : Highway 11 Grocery

Site ID : 03439

Sample ID : DMW-2

Project # : 302-169

Collected By : VC-JW-KB
Collection Date : 07/01/03 17:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	12.	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	5.5	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	25.	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	110		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Est. 1970

REPORT OF ANALYSIS

July 09, 2003

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L119527-18

Date Received : July 03, 2003
Description : Highway 11 Grocery

Site ID : 03439

Sample ID : DMW-4

Project # : 302-169

Collected By : VC-JW-KB
Collection Date : 07/01/03 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery

ESC Sample # : L119527-19

Sample ID : CK-1

Site ID : 03439

Collected By : VC-JW-KB
Collection Date : 07/01/03 16:45

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	2.6	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	4.8	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	4.5	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	98		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1

Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Est. 1970

REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery
Sample ID : CK-2
Collected By : VC-JW-KB
Collection Date : 07/01/03 16:15

ESC Sample # : L119527-20

Site ID : 03439

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/07/03	1
Toluene	BDL	5.0	ug/l	8260B	07/07/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/07/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/07/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/07/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/07/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/07/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/07/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	07/07/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. Paul Beckish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

July 09, 2003

Date Received : July 03, 2003
Description : Highway 11 Grocery

ESC Sample # : L119527-21

Sample ID : WW-1

Site ID : 03439

Collected By : VC-JW-KB
Collection Date : 07/01/03 14:50

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	07/06/03	1
Toluene	BDL	5.0	ug/l	8260B	07/06/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/06/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	07/06/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/06/03	1
Naphthalene	BDL	5.0	ug/l	8260B	07/06/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/06/03	1
Dibromofluoromethane	110		% Rec.	8260B	07/06/03	1
4-Bromofluorobenzene	95.		% Rec.	8260B	07/06/03	1

Leslie Newton

Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Reported: 07/09/03 15:15 Printed: 07/09/03 15:16

Summary of Remarks For Samples Printed
07/09/03 at 15:16:25

TSR Signing Reports: 044

Sample: L119527-01 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-02 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-03 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-04 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-05 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-06 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-07 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-08 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-09 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-10 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-11 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-12 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-13 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-14 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-15 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-16 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-17 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-18 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-19 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-20 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15
Sample: L119527-21 Account: SEICSC Received: 07/03/03 09:00 Due Date: 07/10/03 00:00 RPT Date: 07/09/03 15:15

Company Name/Address:
SEI Environmental - Columbia, SC
 3021 McNaughton Drive, Suite 9
 Columbia, SC 29223

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
 Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **P. Beckwith**

Email to:

Project Description: **hwy 11 Groceries**
 Phone: (803) 788-2535
 FAX: (803) 788-2399

City/State Collected: **Salem SC**
 Client Project #: **302-169**
 ESC Key:

Collected by: **V. Chisholm**
J. W. SAND K. BALLINGER

Site/Facility ID#: **03439**
 P.O.#:

Collected by (signature):
[Signature]
 Packed on Ice: **N**

Rush? (Lab MUST Be Notified)
 Same Day.....200%
 Next Day.....100%
 Two Day.....50%

Date Results Needed: **7-20-03**
 Email? No Yes
 FAX? No Yes

Analysis/Container/Preservative	No. of Cntrs
<i>[Vertical text: 6700, 4000, 1000]</i>	2

CoCode: SEICSC (lab use only)
 Template/Prelogin
 Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
MW-10	Grab	GW		7-1-03	1430	2		119507-10
11					1720			-11
12					1515			-12
13					1430			-13
14					1530			-14
15					1610			-15
DMW1					1550			-16
DMW2					1730			-17
DMW4					1610			-18

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 7-20-03	Time: 16:45	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition (lab use only) <i>[Initials]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Tel: 236	Bottles Received: 42 VITB
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 7-20-03	Time: 09:00

Appendix G
Non-Hazardous Manifest & Disposal Receipt

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

GK5660

07/02/03

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name

SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone

803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

10. US EPA ID Number

. 987573557

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

a. NON HAZARDOUS PETROLEUM PRODUCT
SANTEE BP STATION SANTEE, SC

12. Containers
No. Type

01DM

13. Total Quantity

14. Unit Wt/Vol

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
GALLEANA CHRYSLER COLUMBIA, SC

0

98.8

gal

c.

d. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GRICERY SALEM, SC

122.89

gal

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

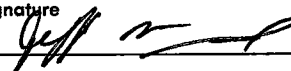
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JEFF WEYAND

Signature



Month Day Year

7 1 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

S. Collier

Signature



Month Day Year

7 2 03

GENERATOR
TRANSPORTER
FACILITY



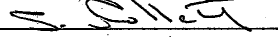
Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 122.89 gallons
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ~~soil~~^{water} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by  Date 07/02/03

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

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AUG 20 2003

Underground Storage
Tank Program

August 18, 2003

Konstantine Akhvlediani
Hydrogeologist / Project Manager
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

35-Tech

Re: Summary of Corrective Action and Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

Dear Mr. Akhvlediani;

SEI Environmental, Inc. (SEI) summary of gauging results and laboratory analytical results for samples collected on July 30, 2003. Attached, Appendix A, are Figure 1, a topographic map depicting the location of the site and Figure 2, a site map illustrating the location of the monitoring wells.

May 7, 2002, fourteen samples were collected from the monitoring wells onsite. The samples collected were analyzed for Benzene, Toluene, Ethylbenzene, Xylene, Methyl Tert-butyl Ether, and Naphthalene. Attached in Appendix B is Table 1, which summarizes the May 7, 2002 laboratory analytical results.

July 22, 2003, SEI personnel commenced with corrective action at the site via an injection system utilizing dual phase extraction system, MAV, a patented "EDOT" oxygen injection system and a patented hydrogen peroxide injection system ("Per-Petual").

July 30, 2003, SEI personnel were on site to gauge the monitoring wells, remove free product and collect groundwater samples. Eighteen (18) monitoring wells were gauged and two (2), MW-1 and MW-8, were found to free product. MW-1 was found to have 0.08 feet of free product and MW-8 was found to have 0.20 feet of free product. Upon completion of gauging, fourteen (14) monitoring wells were purged and field screened. 96.39 gallons of petroleum-impacted water was generated from the purging of the fourteen (14) wells. Attached in Appendix C are Table 2, which summarizes the July 30, 2003 gauging and field screening information and copies of the Field Data Information Sheet(s) for Ground Water Sampling. Upon completion of purging and collection of field screening information, a representative sample was collected from each sample point. Each sample was submitted to Environmental Science Laboratory in Nashville, Tennessee for analysis for Benzene, Toluene, Ethylbenzene, Xylene (BTEX) by EPA method 8260B, Methyl Tert-butyl Ether (MTBE) by EPA method 8260B, and Naphthalene by EPA method

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NOV 19 1954

U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C.

18



Environmental, Inc.

8260B. Attached in Appendix D are Table 3, which summarizes the laboratory analytical results and copies of the laboratory analytical results and a copy of the Chain of Custody. Attached in Appendix E is Figure 3, a CoC map based on the July 30, 2003 laboratory analytical data.

July 31, 2003, 96.39 gallons of petroleum-impacted water, which was generated from the purging of the sample points was disposed at G & K Tank Services, Inc.; located in Sumter, SC. Attached in Appendix F are copies of the Non-Hazardous Waste Manifest and Certificate for Disposal for the 96.39 gallons of petroleum-impacted water.

The evaluation of the corrective action activities effectiveness consists of comparing the July 30, 2003 laboratory analytical data against the May 7, 2002 laboratory data and determining the percent of total concentration reduction. The percent of total concentration reduction is calculated by using the following formula:


$$\text{Percent of Total Concentration Reduction} = ((\text{Initial Mass Above SSTL}) - (\text{Current Mass Above SSTL})) * (100) / (\text{Initial Mass Above SSTL})$$

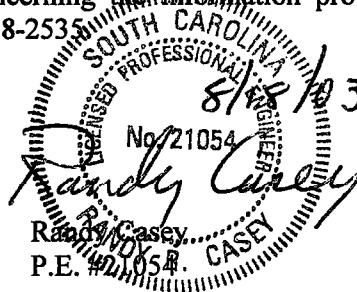
The calculation for the July 30, 2003 Percent of Total Concentration Reduction was found to be 69.93%. Attached in Appendix G is Table 4, which illustrates the system's effectiveness analysis.

The patented "EDOT" oxygen injection system and a patented hydrogen peroxide injection system ("Per-Petual") at the above referenced facility are currently active. SEI has scheduled a MAV treatment, for removal of free product, for the first week of September. Two (2) weeks after completion of the MAV event, SEI will collect groundwater samples for evaluation of the corrective action activities. Upon receipt of the laboratory analytical, SEI will submit a report summarizing the findings.

If you have any questions and / or comments, concerning the information provided in this document, please contact John Paul Bekish at (803) 788-2535

Sincerely,


John Paul Bekish
Branch Manager
SEI - Columbia Office

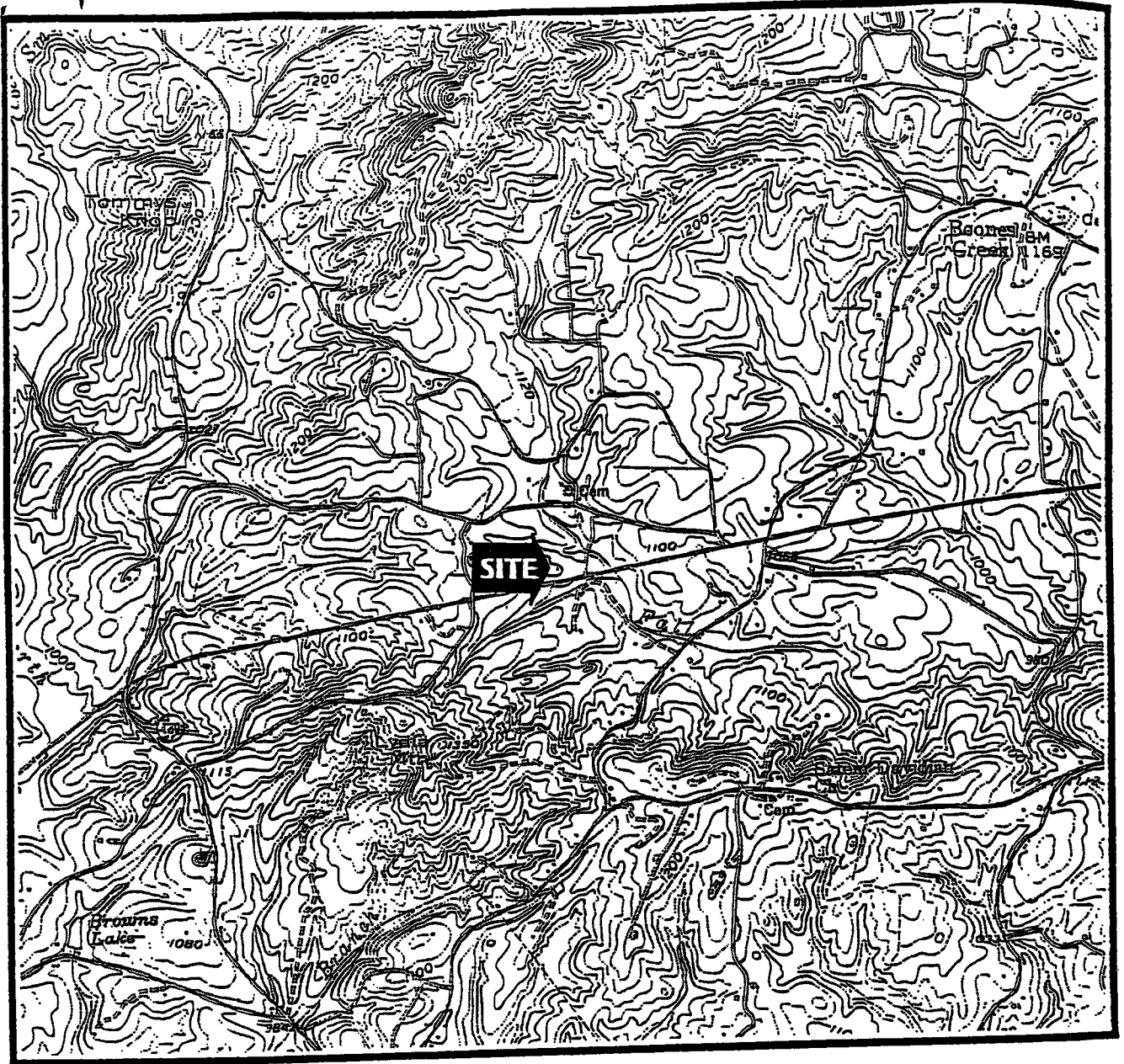


Attachment(s)

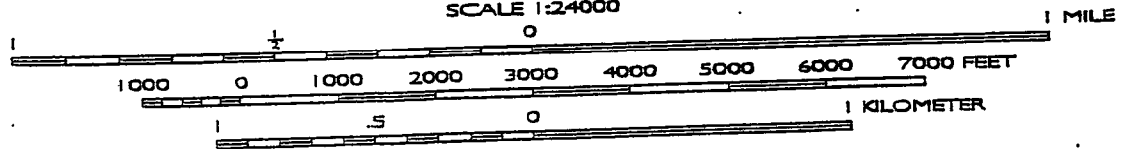
CC: Steven Smith, Hwy 11 Property Owner
SEI Project Files

8/21/03
1st invoice pd 40%

Appendix A
Figure 1 - Topographic Map
&
Figure 2 - Site Map



SCALE 1:24000



SEI Environmental, Inc

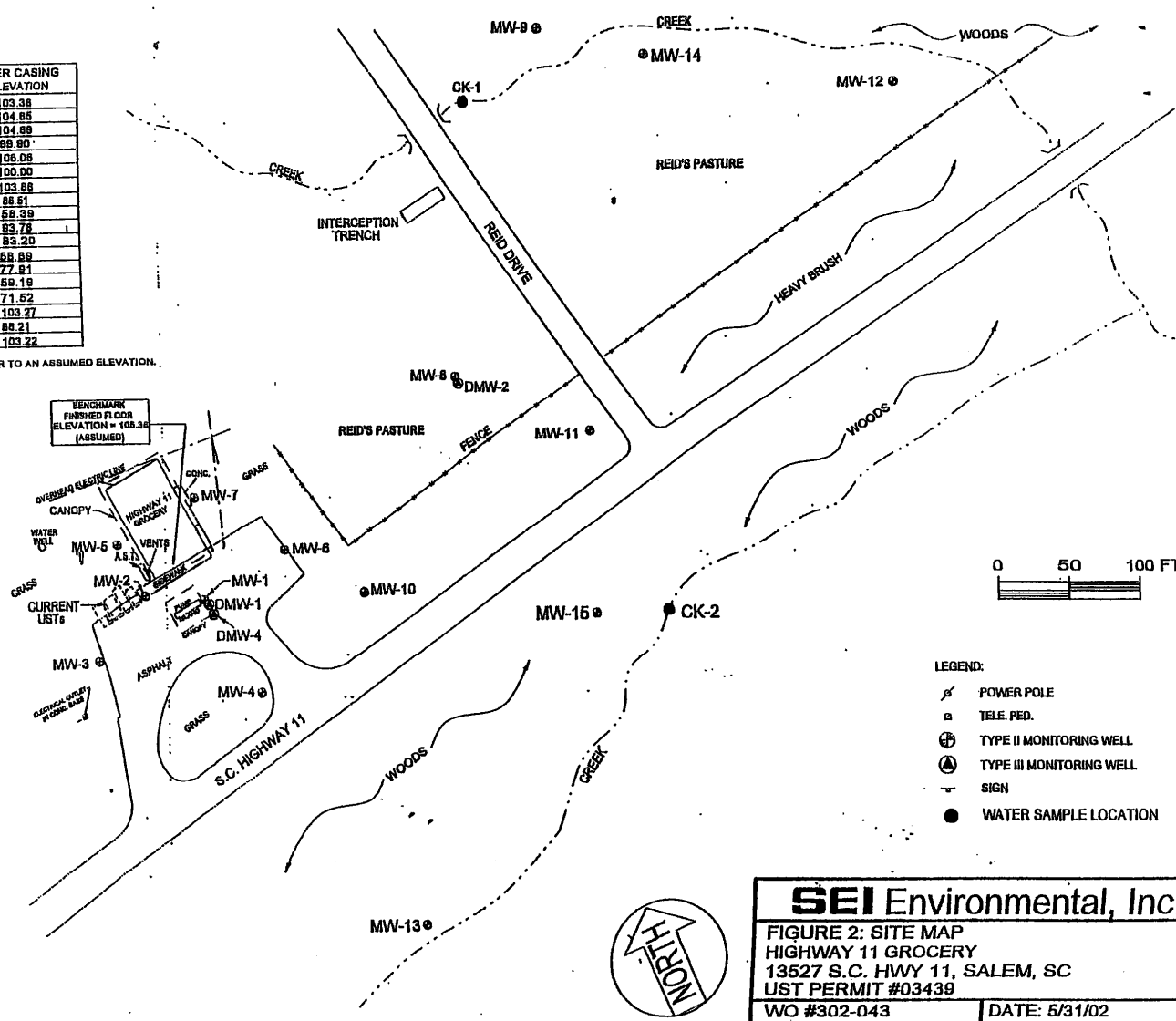
FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

W.O. #: 300-388
 DWG #

DATE: 9/5/01
 DRAWN BY: IC

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	88.80
MW-5	108.08
MW-6	100.00
MW-7	103.89
MW-8	88.61
MW-9	88.39
MW-10	83.78
MW-11	83.20
MW-12	68.88
MW-13	77.91
MW-14	69.19
MW-15	71.52
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043 | DATE: 5/31/02

Appendix B

Table 1 – Summary of May 7, 2002 Laboratory Analytical Data

Table 1
May 7, 2002 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	Total Conc. (ppb)
MW-1	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	6,197,000.00
MW-2	13.00	8.00	1.00	5.00	5.00	5.00	37.00
MW-3	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-4	1,500.00	5,320.00	620.00	3,360.00	810.00	500.00	12,110.00
MW-5	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-6	1,780.00	4,950.00	490.00	2,880.00	6,350.00	500.00	16,950.00
MW-7	34.00	20.00	1.00	8.00	7.00	5.00	75.00
MW-8	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	6,197,000.00
MW-10	115.00	185.00	68.00	328.00	86.00	9.00	791.00
MW-11	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-14	3,780.00	13,900.00	27,000.00	14,700.00	7,010.00	500.00	66,790.00
DMW-1	215.00	430.00	50.00	50.00	1,780.00	250.00	2,775.00
DMW-2	1.00	1.00	1.00	1.00	5.00	5.00	14.00
DMW-4	1.00	1.00	1.00	1.00	5.00	5.00	14.00
Initial Conc.	459,442.00	626,718.00	588,235.00	577,336.00	10,236,073.00	5,794.00	12,493,598.00
SSTL Conc.	3,881.00	57,303.00	33,705.00	339,605.00	10,645.00	2,452.00	447,591.00
Initial Conc. Above SSTL	455,561.00	569,415.00	554,530.00	237,731.00	10,225,428.00	3,342.00	12,046,007.00

Appendix C

**Table 2 – Summary of July 1, 2003 Gauging and Field Screening Activities
&
Field Data Information Sheet(s) for Ground Water Sampling**

Table 2
Summary of Field Observations - July 30, 2003
Highway 11 Grocery
13527 South Carolina Highway
Salem, South Carolina
UST Permit # 03439

Sample ID	Frequency	Depth to Product (Feet)	Free Product Thickness (Feet)	Depth to Groundwater (Feet)	Total Well Depth (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temp. (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-1	Initial	22.81	0.08	22.89	30.00	N/A	N/A	N/A	N/A	3.40	Free Product
MW-2	Initial			23.78	35.00	N/A	N/A	N/A	N/A	5.40	Strong Odor
MW-3	Initial			22.21	30.00	5.00	0.099	19.20	5.81		
MW-3	1st Volume				30.00	5.10	0.017	18.20	5.53	1.20	
MW-3	2nd Volume				30.00	4.91	0.013	17.80	5.73	1.20	
MW-3	3rd Volume				30.00	4.62	0.012	17.70	5.51	1.40	
MW-3	Post Sampling				30.00	4.50	0.012	17.70	5.80		Full Recharge
MW-4	Initial			22.09	35.00	N/A	N/A	N/A	N/A	6.30	Strong Odor
MW-5	Initial			26.53	35.00	4.69	0.013	18.90	6.96		
MW-5	1st Volume				35.00	4.52	0.012	18.00	6.11	1.30	
MW-5	2nd Volume				35.00	4.27	0.012	17.90	6.10	1.30	
MW-5	3rd Volume				35.00	4.33	0.012	17.70	6.29	1.50	
MW-5	Post Sampling				35.00	4.21	0.012	17.80	5.98		Full Recharge
MW-6	Initial			19.88	35.00	N/A	N/A	N/A	N/A	7.38	Strong Odor
MW-7	Initial			26.22	40.00	N/A	N/A	N/A	N/A	6.75	Strong Odor
MW-8	Initial	20.22	0.20	20.46	30.00	N/A	N/A	N/A	N/A	4.68	Free Product
MW-9	Initial			2.26	12.00	N/A	N/A	N/A	N/A		Gauged Only
MW-10	Initial			18.95	24.00	N/A	N/A	N/A	N/A	2.46	Strong Odor
MW-11	Initial			15.92	23.00	5.14	0.018	19.70	5.78		
MW-11	1st Volume				23.00	4.87	0.012	17.70	5.58	1.15	
MW-11	2nd Volume				23.00	4.58	0.011	17.00	5.92	1.35	
MW-11	Post Sampling				23.00	4.11	0.011	17.40	4.93		Bailed Dry
MW-12	Initial			3.02	12.00	N/A	N/A	N/A	N/A		Gauged Only
MW-13	Initial			6.28	15.00	N/A	N/A	N/A	N/A		Gauged Only
MW-14	Initial			1.77	10.00	N/A	N/A	N/A	N/A	4.02	Strong Odor

Table 2 - Continued
Summary of Field Observations - July 30, 2003
Highway 11 Grocery
13527 South Carolina Highway
Salem, South Carolina
UST Permit # 03439

Sample ID	Frequency	Depth to Product (Feet)	Free Product Thickness (Feet)	Depth to Groundwater (Feet)	Total Well Depth (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temp. (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-15	Initial			10.67	12.00	N/A	N/A	N/A	N/A		Gauged Only
DMW-1	Initial			22.72	45.00	N/A	N/A	N/A	N/A	10.80	Strong Odor
DMW-2	Initial			16.49	75.00	6.29	0.050	19.80	4.94		
DMW-2	1st Volume				75.00	6.14	0.050	18.70	4.74	9.54	
DMW-2	2nd Volume				75.00	6.34	0.051	17.80	5.43	9.54	
DMW-2	3rd Volume				75.00	6.71	0.043	18.20	6.12	9.54	
DMW-2	Post Sampling				75.00	6.54	0.039	17.30	7.03		Full Recharge
DMW-4	Initial			23.18	60.00	5.21	0.048	21.70	5.94		
DMW-4	1st Volume				60.00	5.50	0.034	20.40	6.29	6.00	
DMW-4	2nd Volume				60.00	5.40	0.034	19.10	6.73	6.00	
DMW-4	3rd Volume				60.00	5.20	0.034	19.10	6.39	6.00	
DMW-4	Post Sampling				60.00	5.11	0.034	18.90	6.77		Full Recharge

Notes: N/A = Not Applicable

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEJAND, J. MONEGHAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u> pH=4.0 <u>± 0.002 PH @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>1854</u> standard <u>4.49ms/AC</u> standard _____ standard _____
--	---

AUTO CAL. SOLUTIONS PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONORA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW1

Water Supply Well Public Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .08 feet

Depth to Ground Water (DGW) 22.89 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 7.11 feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals

3 casing volume (3 X CV) = 3.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1145</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Not well free product at 22.81

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEYAND, J. MONEGHAN, V. CHRISTMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 PH @ 28°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 23.78 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 11.22 feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals
3 casing volume (3 X CV) = 5.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.4 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1215</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGHAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>±0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONOR Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW3

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.21 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 7.79 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.2 gals
3 casing volume (3 X CV)= 3.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1110</u>
pH (s.u.)	<u>5.00</u>	<u>5.10</u>	<u>4.91</u>	<u>4.62</u>			<u>4.50</u>
Specific Conductivity (µmhos/cm)	<u>1099</u>	<u>1017</u>	<u>1013</u>	<u>1012</u>			<u>1012</u>
Water Temperature (°C)	<u>19.2</u>	<u>18.2</u>	<u>17.8</u>	<u>17.7</u>			<u>17.7</u>
Dissolved Oxygen	<u>5.81</u>	<u>5.53</u>	<u>5.73</u>	<u>5.51</u>			<u>5.80</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302168

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW4

Water Supply Well Public Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.09 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 12.91 feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals

3 casing volume (3 X CV) = 6.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1215</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONDA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW5

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 26.53 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 8.47 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.3 gals

3 casing volume (3 X CV) = 4.1 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1140</u>
pH (s.u.)	<u>4.09</u>	<u>4.52</u>	<u>4.27</u>	<u>4.33</u>			<u>4.21</u>
Specific Conductivity (umhos/cm)	<u>1013</u>	<u>1012</u>	<u>1012</u>	<u>1012</u>			<u>1012</u>
Water Temperature (°C)	<u>18.9</u>	<u>18.0</u>	<u>17.9</u>	<u>17.7</u>			<u>17.8</u>
Dissolved Oxygen	<u>6.96</u>	<u>6.11</u>	<u>6.10</u>	<u>6.29</u>			<u>5.98</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302164

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEYAND, J. MONEGAN, V. CROSSON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED BY PINE ENVIRONMENTAL SERVICE FOR HONDA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW6

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 19.88 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 15.12 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.46 gals

3 casing volume (3 X CV) = 7.38 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 7.38 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1235</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Next well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MOSEGHAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW7

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 26.22 feet

Total Well Depth (TWD) 40 feet

Length of the water column (LWC=TWD-DGW) 13.78 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 2.25 gals
3 casing volume (3 X CV)= 6.75 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 6.75 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1130</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hat well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEIAND, J. MONEGAN, V. CRISMON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HOMBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWSY 11 GROC

Site ID#: 03439 Monitoring Well # MW 8

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 20.22 feet

Depth to Ground Water (DGW) 20.46 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 9.54 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.56 gals
3 casing volume (3 X CV) = 4.68 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEIAND, J. MONEGAN, V. CRISMON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDED PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: H2WY 11 GROC

Site ID#: 03439 Monitoring Well # MW9

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.26 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTIONS PROVIDE FINE ENVIRONMENTAL SERVICE FOR HOMER
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW10

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 18.95 feet

Total Well Depth (TWD) 24 feet

Length of the water column (LWC=TWD-DGW) 5.05 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .82 gals

3 casing volume (3 X CV) = 2.46 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1230</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: dry well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEYAND, J. MONEGAN, V. CRESKOMA

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 28°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW11

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 15.92 feet

Total Well Depth (TWD) 23 feet

Length of the water column (LWC=TWD-DGW) 7.08 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.15 gals

3 casing volume (3 X CV)= 3.45 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 2.5 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1205</u>
pH (s.u.)	<u>5.14</u>	<u>4.87</u>	<u>4.58</u>				<u>4.11</u>
Specific Conductivity (µmhos/cm)	<u>1018</u>	<u>1012</u>	<u>1011</u>				<u>1011</u>
Water Temperature (°C)	<u>19.7</u>	<u>17.7</u>	<u>17.0</u>				<u>17.4</u>
Dissolved Oxygen	<u>5.78</u>	<u>5.58</u>	<u>5.92</u>				<u>4.8</u>
PID readings, if required							

Remarks: BANCO ONLY

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEJAND, J. MONEGHAN, V. CRISMON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTIONS PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW12

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 3.02 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEJAND, J. MONEGHAN, V. CRYSTON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTIONS PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONRA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW13

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 6.28 feet

Total Well Depth (TWD) * 12 * (15) feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: * stand up well (3' riser)

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEJAND, J. MONEGHAN, V. CRISP

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 PH@28°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONRA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 02439 Monitoring Well # MW14

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 1.77 feet

Total Well Depth (TWD) 10 feet

Length of the water column (LWC=TWD-DGW) 8.23 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.34 gals
3 casing volume (3 X CV)= 4.02 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 4.02 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1300</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: bat well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEJAND, J. MONEGAN, V. CRISMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 PH@25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW15

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 10.67 feet

Total Well Depth (TWD) *9(12) feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: * stand up well (3' min)

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HOMBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Hwy 11 Groc

Site ID#: 03439 Monitoring Well # DMW1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.72 feet

Total Well Depth (TWD) 45 feet

Length of the water column (LWC=TWD-DGW) 22.28 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 3.6 gals

3 casing volume (3 X CV)= 10.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1130</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEYAND, J. MONEGAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>±0.002 pH @ 28°C</u>	standard <u>4.49ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTIONS PROVIDE PINE ENVIRONMENTAL SERVICE FOR HOMBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # DMW2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 16.49 feet

Total Well Depth (TWD) 75 feet

Length of the water column (LWC=TWD-DGW) 58.51 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 9.54 gals
3 casing volume (3 X CV)= 28.62 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1315</u>
pH (s.u.)	<u>6.29</u>	<u>6.14</u>	<u>6.34</u>	<u>6.71</u>			<u>6.54</u>
Specific Conductivity (µmhos/cm)	<u>0.50</u>	<u>0.50</u>	<u>0.57</u>	<u>0.43</u>			<u>0.29</u>
Water Temperature (°C)	<u>19.8</u>	<u>18.7</u>	<u>17.8</u>	<u>18.2</u>			<u>17.2</u>
Dissolved Oxygen	<u>4.94</u>	<u>4.74</u>	<u>5.43</u>	<u>6.12</u>			<u>7.03</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEJAND, J. MONEGAN, V. CRESSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 PH @ 25°C</u>	standard <u>4.49ms/nacl</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

AUTO CAL. SOLUTION PROVIDE PINE ENVIRONMENTAL SERVICE FOR HONDA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # DMW4

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 23.18 feet

Total Well Depth (TWD) 60 feet

Length of the water column (LWC=TWD-DGW) 36.82 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 6.0 gals
3 casing volume (3 X CV)= 18.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1115</u>
pH (s.u.)	<u>5.21</u>	<u>5.50</u>	<u>5.40</u>	<u>5.20</u>			<u>5.11</u>
Specific Conductivity (µmhos/cm)	<u>0.48</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>			<u>0.34</u>
Water Temperature (°C)	<u>21.7</u>	<u>20.4</u>	<u>19.1</u>	<u>19.1</u>			<u>18.9</u>
Dissolved Oxygen	<u>5.94</u>	<u>6.29</u>	<u>6.73</u>	<u>6.39</u>			<u>6.77</u>
PID readings, if required							

Remarks: _____

Appendix D

**Table 3 – Summary of July 30, 2003 Laboratory Analytical Data
&
Copies of Laboratory Analytical Data and Chain of Custody**

Table 3
July 30, 2003 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)
MW-1	7,600.00	28,000.00	6,300.00	32,000.00	25,000.00	<2500.00
MW-2	5.80	<5.00	<1.00	5.30	<1.00	<5.00
MW-3	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-4	4,000.00	14,000.00	2,700.00	13,000.00	2,100.00	<500.00
MW-5	4.20	17.00	3.60	18.00	2.20	<5.00
MW-6	4,200.00	13,000.00	1,600.00	8,900.00	21,000.00	400.00
MW-7	18.00	18.00	<1.00	9.70	<1.00	<5.00
MW-8	12,000.00	40,000.00	3,600.00	18,000.00	15,000.00	660.00
MW-9	N/A	N/A	N/A	N/A	N/A	N/A
MW-10	170.00	420.00	43.00	240.00	540.00	6.50
MW-11	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-12	N/A	N/A	N/A	N/A	N/A	N/A
MW-13	N/A	N/A	N/A	N/A	N/A	N/A
MW-14	3,100.00	9,700.00	1,800.00	9,300.00	4,300.00	<500.00
MW-15	N/A	N/A	N/A	N/A	N/A	N/A
DMW-1	<1.00	<5.00	<1.00	<3.00	4.20	<5.00
DMW-2	<1.00	8.40	6.80	30.00	<1.00	6.70
DMW-4	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
CK-1	N/A	N/A	N/A	N/A	N/A	N/A
CK-2	N/A	N/A	N/A	N/A	N/A	N/A
WW-1	N/A	N/A	N/A	N/A	N/A	N/A

Notes: N/A = Not Applicable



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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L122656-01

Date Received : August 01, 2003
Description : HWY 11 Grocery

Site ID : 03439

Sample ID : MW-1

Project # : 302-169

Collected By : JW/SM/VC
Collection Date : 07/30/03 11:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	7600	500	ug/l	8260B	08/04/03	500
Toluene	28000	2500	ug/l	8260B	08/04/03	500
Ethylbenzene	6300	500	ug/l	8260B	08/04/03	500
Total Xylenes	32000	1500	ug/l	8260B	08/04/03	500
Methyl tert-butyl ether	25000	500	ug/l	8260B	08/04/03	500
Naphthalene	BDL	2500	ug/l	8260B	08/04/03	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	500
Dibromofluoromethane	97.		% Rec.	8260B	08/04/03	500
4-Bromofluorobenzene	99.		% Rec.	8260B	08/04/03	500


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

August 07, 2003

Date Received : August 01, 2003
Description : HWY 11 Grocery

ESC Sample # : L122656-02

Sample ID : MW-2

Site ID :

Collected By : JW/SM/VC
Collection Date : 07/30/03 12:15

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	5.8	1.0	ug/l	8260B	08/04/03	1
Toluene	BDL	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	5.3	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	95.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	99.		% Rec.	8260B	08/04/03	1

Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-3

Collected By : JW/SM/VC
Collection Date : 07/30/03 11:10

ESC Sample # : L122656-03

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/01/03	1
Toluene	BDL	5.0	ug/l	8260B	08/01/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/01/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/01/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/01/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/01/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/03	1
Dibromofluoromethane	100		% Rec.	8260B	08/01/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	08/01/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-4
Collected By : JW/SM/VC
Collection Date : 07/30/03 12:15

ESC Sample # : L122656-04

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4000	100	ug/l	8260B	08/04/03	100
Toluene	14000	500	ug/l	8260B	08/04/03	100
Ethylbenzene	2700	100	ug/l	8260B	08/04/03	100
Total Xylenes	13000	300	ug/l	8260B	08/04/03	100
Methyl tert-butyl ether	2100	100	ug/l	8260B	08/04/03	100
Naphthalene	BDL	500	ug/l	8260B	08/04/03	100
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	100
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	100
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	100


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

August 07, 2003

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-5
Collected By : JW/SM/VC
Collection Date : 07/30/03 11:40

ESC Sample # : L122656-05

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4.2	1.0	ug/l	8260B	08/01/03	1
Toluene	17.	5.0	ug/l	8260B	08/01/03	1
Ethylbenzene	3.6	1.0	ug/l	8260B	08/01/03	1
Total Xylenes	18.	3.0	ug/l	8260B	08/01/03	1
Methyl tert-butyl ether	2.2	1.0	ug/l	8260B	08/01/03	1
Napthalene	BDL	5.0	ug/l	8260B	08/01/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/03	1
Dibromofluoromethane	100		% Rec.	8260B	08/01/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L122656-06

Date Received : August 01, 2003
Description : HWY 11 Grocery

Site ID :

Sample ID : MW-6

Project # : 302-169

Collected By : JW/SM/VC
Collection Date : 07/30/03 12:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4200	50.	ug/l	8260B	08/01/03	50
Toluene	13000	2500	ug/l	8260B	08/04/03	500
Ethylbenzene	1600	50.	ug/l	8260B	08/01/03	50
Total Xylenes	8900	150	ug/l	8260B	08/01/03	50
Methyl tert-butyl ether	21000	500	ug/l	8260B	08/04/03	500
Naphthalene	400	250	ug/l	8260B	08/01/03	50
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/03	50
Dibromofluoromethane	96.		% Rec.	8260B	08/01/03	50
4-Bromofluorobenzene	96.		% Rec.	8260B	08/01/03	50


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-7
Collected By : JW/SM/VC
Collection Date : 07/30/03 11:30

ESC Sample # : L122656-07

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	18.	1.0	ug/l	8260B	08/04/03	1
Toluene	18.	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	9.7	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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Note:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-8
Collected By : JW/SM/VC
Collection Date : 07/30/03 13:00

ESC Sample # : L122656-08

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	12000	500	ug/l	8260B	08/04/03	500
Toluene	40000	2500	ug/l	8260B	08/04/03	500
Ethylbenzene	3600	50.	ug/l	8260B	08/02/03	50
Total Xylenes	18000	150	ug/l	8260B	08/02/03	50
Methyl tert-butyl ether	15000	500	ug/l	8260B	08/04/03	500
Naphthalene	660	250	ug/l	8260B	08/02/03	50
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/02/03	50
Dibromofluoromethane	99.		% Rec.	8260B	08/02/03	50
4-Bromofluorobenzene	100		% Rec.	8260B	08/02/03	50


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-10
Collected By : JW/SM/VC
Collection Date : 07/30/03 12:30

ESC Sample # : L122656-09

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	170	1.0	ug/l	8260B	08/02/03	1
Toluene	420	50.	ug/l	8260B	08/04/03	10
Ethylbenzene	43.	1.0	ug/l	8260B	08/02/03	1
Total Xylenes	240	3.0	ug/l	8260B	08/02/03	1
Methyl tert-butyl ether	540	10.	ug/l	8260B	08/04/03	10
Naphthalene	6.5	5.0	ug/l	8260B	08/02/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/02/03	1
Dibromofluoromethane	97.		% Rec.	8260B	08/02/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/02/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

August 07, 2003

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-11
Collected By : JW/SM/VC
Collection Date : 07/30/03 12:05

ESC Sample # : L122656-10

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/04/03	1
Toluene	BDL	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	96.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	96.		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

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Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-14
Collected By : JW/SM/VC
Collection Date : 07/30/03 13:00

ESC Sample # : L122656-11

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	3100	100	ug/l	8260B	08/04/03	100
Toluene	9700	500	ug/l	8260B	08/04/03	100
Ethylbenzene	1800	100	ug/l	8260B	08/04/03	100
Total Xylenes	9300	300	ug/l	8260B	08/04/03	100
Methyl tert-butyl ether	4300	100	ug/l	8260B	08/04/03	100
Naphthalene	BDL	500	ug/l	8260B	08/04/03	100
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	100
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	100
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	100


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
Note:

The reported analytical results relate only to the sample submitted.
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Reported: 08/07/03 08:50 Printed: 08/07/03 08:51



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : DMW-1
Collected By : JW/SM/VC
Collection Date : 07/30/03 11:30

ESC Sample # : L122656-12

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/04/03	1
Toluene	BDL	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	4.2	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	95.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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12065 Lebanon Rd.
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Est. 1970

REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : DMW-2
Collected By : JW/SM/VC
Collection Date : 07/30/03 13:15

ESC Sample # : L122656-13

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/04/03	1
Toluene	8.4	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	6.8	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	30.	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	6.7	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

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**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

August 07, 2003

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : DMW-4
Collected By : JW/SM/VC
Collection Date : 07/30/03 11:15

ESC Sample # : L122656-14

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/02/03	1
Toluene	BDL	5.0	ug/l	8260B	08/02/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/02/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/02/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/02/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/02/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/02/03	1
Dibromofluoromethane	97.		% Rec.	8260B	08/02/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	08/02/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 08/07/03 08:50 Printed: 08/07/03 08:51

SEI Environmental - Columbia, SC
 3021 McNaughton Drive, Suite 9
 Columbia, SC 29223

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
 Page ___ of ___

Report to: **Mr. Paul Bekish** Email: **pbekish@sei-environmental.**

Prepared by:



SCIENCE CORP.

12065 Lebanon Road
 Mt. Juliet, TN 37122

Phone (800) 767-5859
 FAX (615) 758-5859

Project Description: **MWY 11 GROC** City/State Collected: **SALEM, SC**

Phone: (803) 788-2535 Client Project #: **302-169** Lab Project #: **SEICSC-302169**
 FAX: (803) 788-2399

Collected by (print): **S. MONEGAN J. CRESHOM** Site/Facility ID#: **03439** P.O.#:

Collected by (signature): *[Signature]* Rush? (Lab MUST Be Notified)
 ___ Same Day200% Date Results Needed: **8/7/03**
 ___ Next Day100% Email? ___ No ___ Yes
 ___ Two Day50% FAX? ___ No ___ Yes No. of Cntrs

CoCode: **SEICSC** (lab use only)
 Template/Program: **T20210 P88989**
 Cooler #: **7/16 ds**
 Shipped Via: **FedEx Standard**

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs					Remarks/Contaminant	Sample # (lab only)
MW1	G	GW		7/30/03	1145	2	X					L122656-01
MW2		GW			1215	2	X					02
MW3		GW			1110	2	X					03
MW4		GW			1215	2	X					04
MW5		GW			1140	2	X					05
MW6		GW			1235	2	X					06
MW7		GW			1130	2	X					07
MW8		GW			1300	2	X					08
MW10		GW			1230	2	X					09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

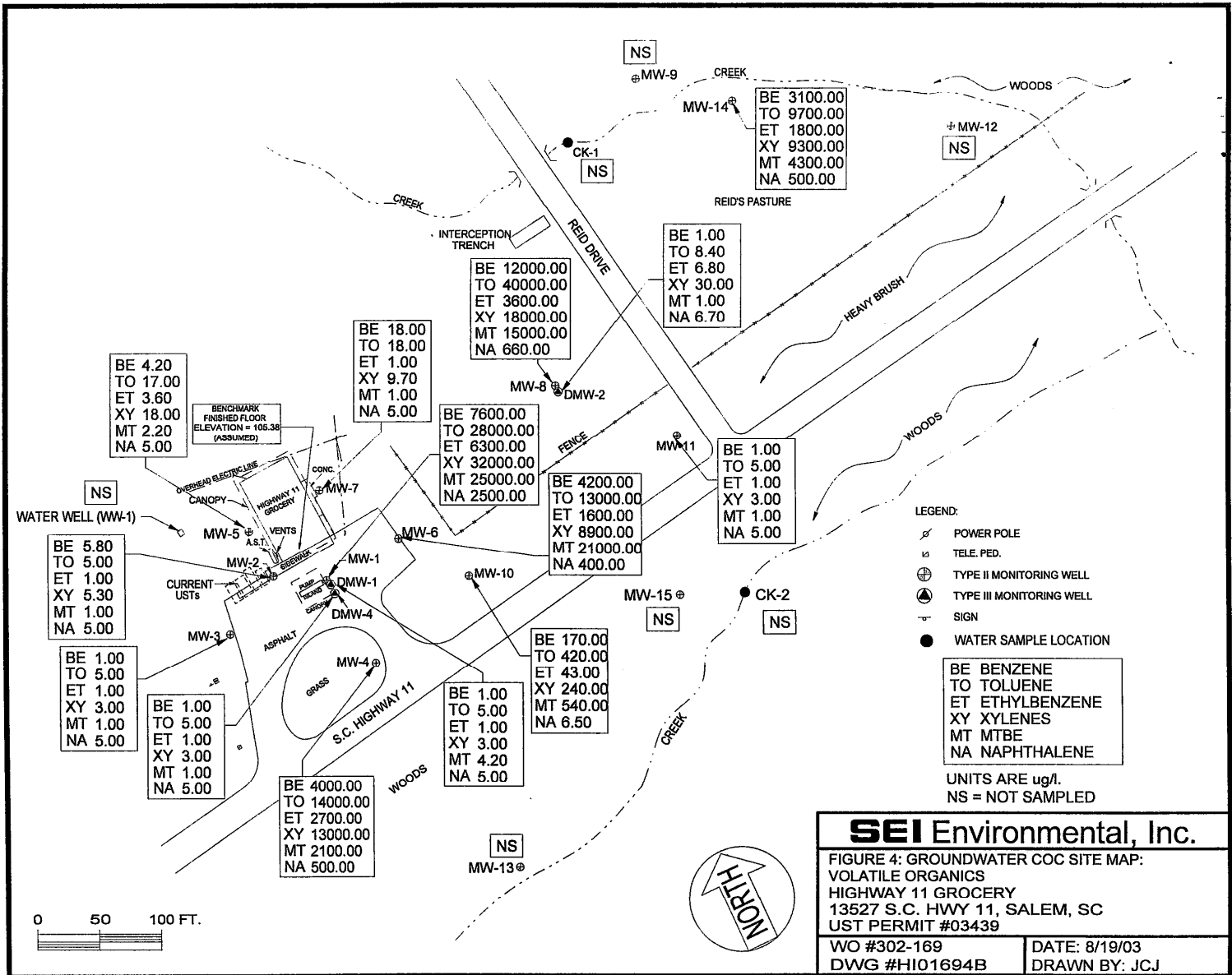
pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 7/31/03	Time: 1400	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) OK
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 2.7 Bottles Received: 28+1TB	
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 8/1/03 Time: 9:00	pH Checked: NCF

Appendix E
Figure 3 – July 30, 2003 CoC Map



BE 4.20
TO 17.00
ET 3.60
XY 18.00
MT 2.20
NA 5.00

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.38
(ASSUMED)

BE 18.00
TO 18.00
ET 1.00
XY 9.70
MT 1.00
NA 5.00

BE 12000.00
TO 40000.00
ET 3600.00
XY 18000.00
MT 15000.00
NA 660.00

BE 1.00
TO 8.40
ET 6.80
XY 30.00
MT 1.00
NA 6.70

BE 3100.00
TO 9700.00
ET 1800.00
XY 9300.00
MT 4300.00
NA 500.00

BE 7600.00
TO 28000.00
ET 6300.00
XY 32000.00
MT 25000.00
NA 2500.00

BE 4200.00
TO 13000.00
ET 1600.00
XY 8900.00
MT 21000.00
NA 400.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 5.80
TO 5.00
ET 1.00
XY 5.30
MT 1.00
NA 5.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

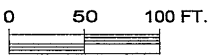
BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 1.00
NA 5.00

BE 4000.00
TO 14000.00
ET 2700.00
XY 13000.00
MT 2100.00
NA 500.00

BE 1.00
TO 5.00
ET 1.00
XY 3.00
MT 4.20
NA 5.00

BE 170.00
TO 420.00
ET 43.00
XY 240.00
MT 540.00
NA 6.50

NS



Appendix F
Non-Hazardous Manifest & Disposal Receipt

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. GK5786

2. Page 1 of

07/31/03

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name

SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone

803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICE
PO BOX 1384
SUMTER, SC 29151
EPA ID Number
987573557

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
CAMDEN SHELL CAMDEN, SC

01 DM

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

96.39 gal

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JEFF WEYAND

Signature

Month Day Year

7 31 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

S. Collett

Signature

S. Collett

Month Day Year

7 31 03

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR



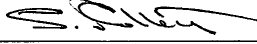
Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 96.39 gallons
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ^{water} ~~oil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by 

Date 07/31/03

Appendix G
Table 4 – July 30, 2003 System Effectiveness

Table 4
System Effectiveness - July 30, 2003 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	Total Conc. (ppb)
MW-1	7,600.00	28,000.00	6,300.00	32,000.00	25,000.00	2,500.00	101,400.00
MW-2	5.80	5.00	1.00	5.30	1.00	5.00	23.10
MW-3	1.00	5.00	1.00	3.00	1.00	5.00	16.00
MW-4	4,000.00	14,000.00	2,700.00	13,000.00	2,100.00	500.00	36,300.00
MW-5	4.20	17.00	3.60	18.00	2.20	5.00	50.00
MW-6	4,200.00	13,000.00	1,800.00	8,900.00	21,000.00	400.00	49,100.00
MW-7	18.00	18.00	1.00	9.70	1.00	5.00	52.70
MW-8	12,000.00	40,000.00	3,600.00	18,000.00	15,000.00	660.00	89,260.00
MW-10	170.00	420.00	43.00	240.00	540.00	6.50	1,419.50
MW-11	1.00	5.00	1.00	3.00	1.00	5.00	16.00
MW-14	3,100.00	9,700.00	1,800.00	9,300.00	4,300.00	500.00	28,700.00
DMW-1	1.00	5.00	1.00	3.00	4.20	5.00	19.20
DMW-2	1.00	8.40	6.80	30.00	1.00	6.70	53.90
DMW-4	1.00	5.00	1.00	3.00	1.00	5.00	16.00
Initial Conc.	31,103.00	105,188.40	16,059.40	81,515.00	67,952.40	4,608.20	308,426.40
SSTL Conc.	3,881.00	57,303.00	33,705.00	339,605.00	10,645.00	2,452.00	447,591.00
Initial Conc. Above SSTL	27,222.00	47,885.40	0.00	0.00	57,307.40	2,156.20	134,571.00

(Initial Mass above SSTL - Current Mass Above SSTL)(100)/(Initial Mass Above SSTL)=(447,591.00 - 134,571.00) (100) / (134571.00)=69.93%

SEI

Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

RECEIVED

AUG 20 2003

Underground Storage
Tank Program

August 18, 2003

Konstantine Akhvlediani
Hydrogeologist / Project Manager
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

Re: Summary of Corrective Action and Gauging Results
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

36-TECH

Dear Mr. Akhvlediani;

SEI Environmental, Inc. (SEI) summary of gauging results and laboratory analytical results for samples collected on July 30, 2003. Attached, Appendix A, are Figure 1, a topographic map depicting the location of the site and Figure 2, a site map illustrating the location of the monitoring wells.

May 7, 2002, fourteen samples were collected from the monitoring wells onsite. The samples collected were analyzed for Benzene, Toluene, Ethylbenzene, Xylene, Methyl Tert-butyl Ether, and Naphthalene. Attached in Appendix B is Table 1, which summarizes the May 7, 2002 laboratory analytical results.

July 22, 2003, SEI personnel commenced with corrective action at the site via an injection system utilizing dual phase extraction system, MAV, a patented "EDOT" oxygen injection system and a patented hydrogen peroxide injection system ("Per-Petual").

July 30, 2003, SEI personnel were on site to gauge the monitoring wells, remove free product and collect groundwater samples. Eighteen (18) monitoring wells were gauged and two (2), MW-1 and MW-8, were found to free product. MW-1 was found to have 0.08 feet of free product and MW-8 was found to have 0.20 feet of free product. Upon completion of gauging, fourteen (14) monitoring wells were purged and field screened. 96.39 gallons of petroleum-impacted water was generated from the purging of the fourteen (14) wells. Attached in Appendix C are Table 2, which summarizes the July 30, 2003 gauging and field screening information and copies of the Field Data Information Sheet(s) for Ground Water Sampling. Upon completion of purging and collection of field screening information, a representative sample was collected from each sample point. Each sample was submitted to Environmental Science Laboratory in Nashville, Tennessee for analysis for Benzene, Toluene, Ethylbenzene, Xylene (BTEX) by EPA method 8260B, Methyl Tert-butyl Ether (MTBE) by EPA method 8260B, and Naphthalene by EPA method

8260B. Attached in Appendix D are Table 3, which summarizes the laboratory analytical results and copies of the laboratory analytical results and a copy of the Chain of Custody. Attached in Appendix E is Figure 3, a CoC map based on the July 30, 2003 laboratory analytical data.

July 31, 2003, 96.39 gallons of petroleum-impacted water, which was generated from the purging of the sample points was disposed at G & K Tank Services, Inc.; located in Sumter, SC. Attached in Appendix F are copies of the Non-Hazardous Waste Manifest and Certificate for Disposal for the 96.39 gallons of petroleum-impacted water.

The evaluation of the corrective action activities effectiveness consists of comparing the July 30, 2003 laboratory analytical data against the May 7, 2002 laboratory data and determining the percent of total concentration reduction. The percent of total concentration reduction is calculated by using the following formula:

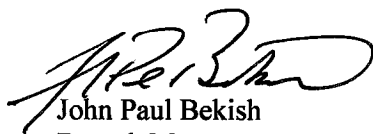
$$\text{Percent of Total Concentration Reduction} = ((\text{Initial Mass Above SSTL}) - (\text{Current Mass Above SSTL}) * (100)) / (\text{Initial Mass Above SSTL})$$

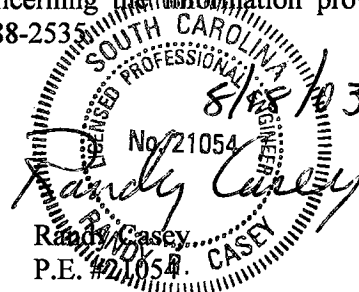
The calculation for the July 30, 2003 Percent of Total Concentration Reduction was found to be 69.93%. Attached in Appendix G is Table 4, which illustrates the system's effectiveness analysis.

The patented "EDOT" oxygen injection system and a patented hydrogen peroxide injection system ("Per-Petual") at the above referenced facility are currently active. SEI has scheduled a MAV treatment, for removal of free product, for the first week of September. Two (2) weeks after completion of the MAV event, SEI will collect groundwater samples for evaluation of the corrective action activities. Upon receipt of the laboratory analytical, SEI will submit a report summarizing the findings.

If you have any questions and / or comments, concerning the information provided in this document, please contact John Paul Bekish at (803) 788-2535.

Sincerely,

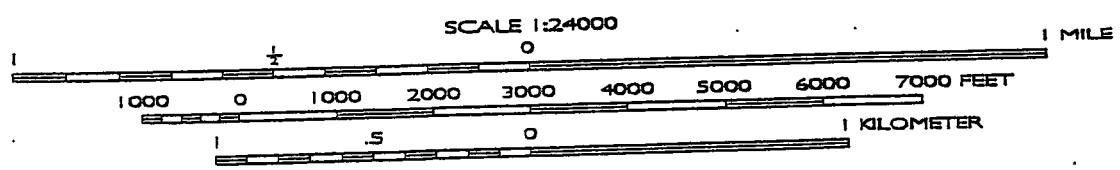
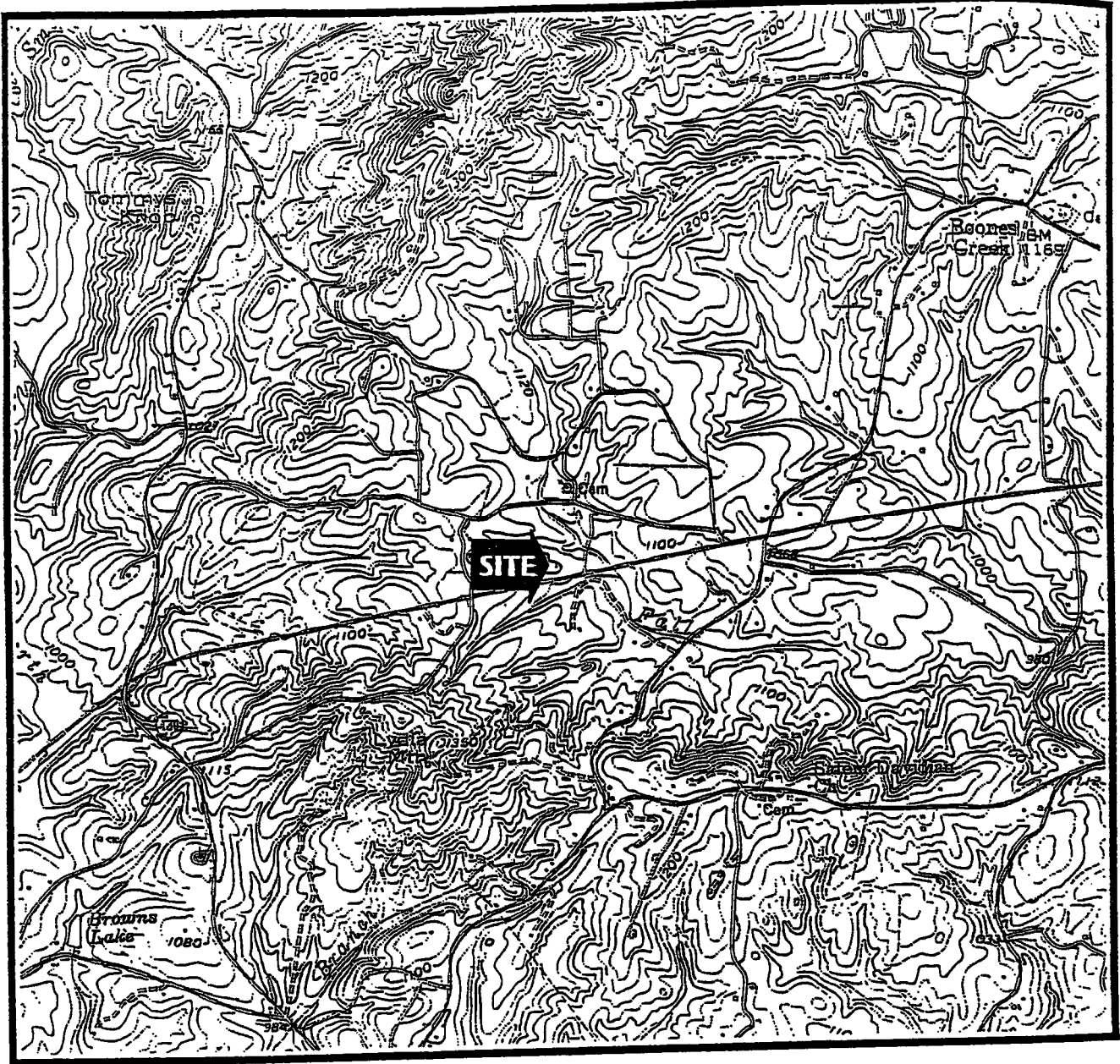

John Paul Bekish
Branch Manager
SEI - Columbia Office


Randy Casey
P.E. #21054

Attachment(s)

CC: Steven Smith, Hwy 11 Property Owner
SEI Project Files

Appendix A
Figure 1 - Topographic Map
&
Figure 2 - Site Map



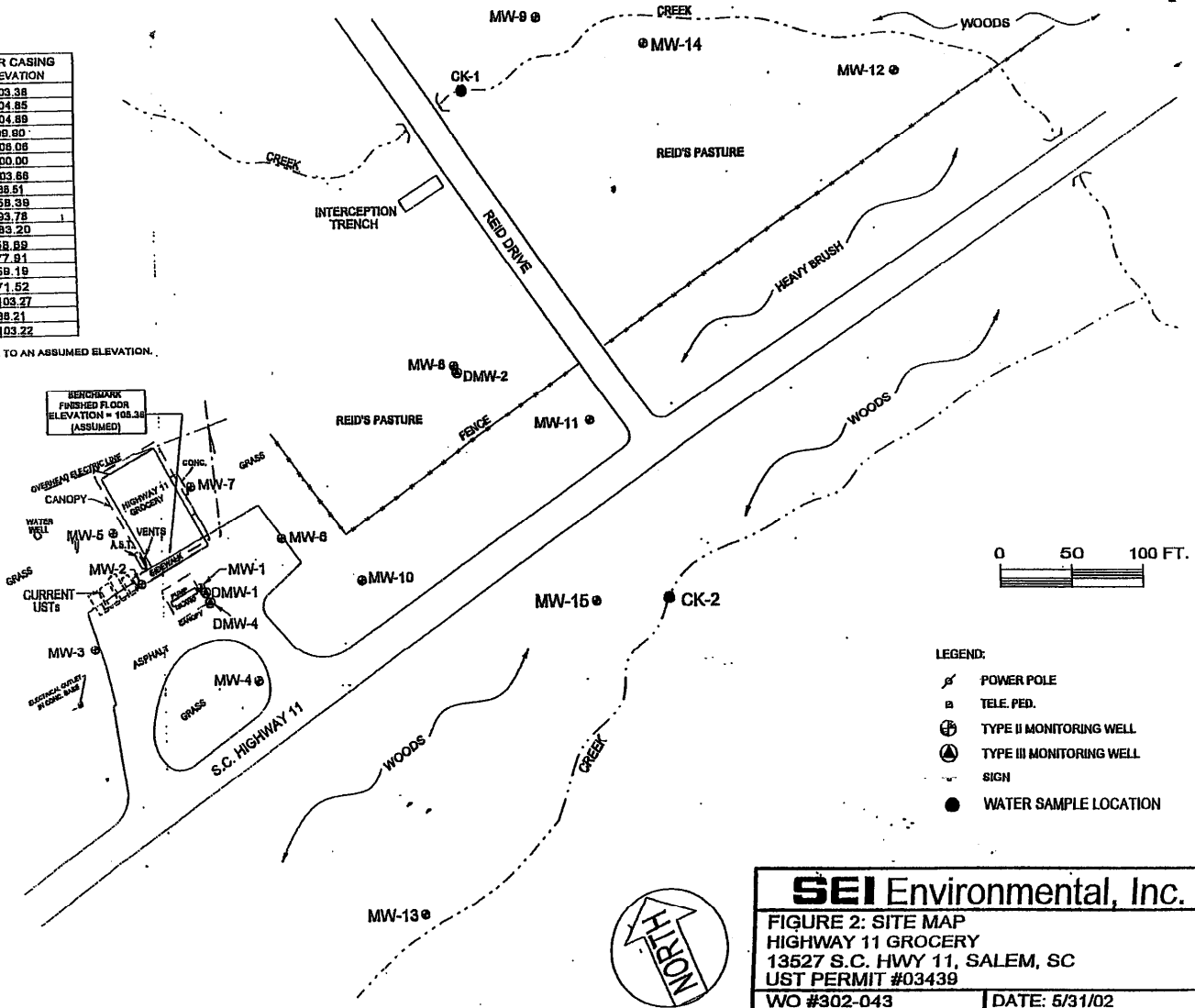
SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: JG
--------------------------	------------------------------

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.80
MW-5	106.05
MW-6	100.00
MW-7	103.88
MW-8	88.51
MW-9	58.39
MW-10	83.78
MW-11	83.20
MW-12	58.88
MW-13	77.81
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043 DATE: 5/31/02
 DWG #H10388E1 DRAWN BY: JC.I

Appendix B

Table 1 – Summary of May 7, 2002 Laboratory Analytical Data

Table 1
May 7, 2002 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	Total Conc. (ppb)
MW-1	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	6,197,000.00
MW-2	13.00	8.00	1.00	5.00	5.00	5.00	37.00
MW-3	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-4	1,500.00	5,320.00	620.00	3,360.00	810.00	500.00	12,110.00
MW-5	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-6	1,780.00	4,950.00	490.00	2,880.00	6,350.00	500.00	16,950.00
MW-7	34.00	20.00	1.00	8.00	7.00	5.00	75.00
MW-8	226,000.00	301,000.00	280,000.00	278,000.00	5,110,000.00	2,000.00	6,197,000.00
MW-10	115.00	185.00	68.00	328.00	86.00	9.00	791.00
MW-11	1.00	1.00	1.00	1.00	5.00	5.00	14.00
MW-14	3,780.00	13,800.00	27,000.00	14,700.00	7,010.00	500.00	66,790.00
DMW-1	215.00	430.00	50.00	50.00	1,780.00	250.00	2,775.00
DMW-2	1.00	1.00	1.00	1.00	5.00	5.00	14.00
DMW-4	1.00	1.00	1.00	1.00	5.00	5.00	14.00
Initial Conc.	459,442.00	626,718.00	588,235.00	577,336.00	10,236,073.00	5,794.00	12,493,598.00
SSTL Conc.	3,881.00	57,303.00	33,705.00	339,605.00	10,645.00	2,452.00	447,591.00
Initial Conc. Above SSTL	455,561.00	569,415.00	554,530.00	237,731.00	10,225,428.00	3,342.00	12,046,007.00

Appendix C

**Table 2 – Summary of July 1, 2003 Gauging and Field Screening Activities
&
Field Data Information Sheet(s) for Ground Water Sampling**

Table 2
Summary of Field Observations - July 30, 2003
Highway 11 Grocery
13527 South Carolina Highway
Salem, South Carolina
UST Permit # 03439

Sample ID	Frequency	Depth to Product	Free Product Thickness	Depth to Groundwater	Total Well Depth	pH	Specific Conductivity	Water Temp.	Dissolved Oxygen	Volume Purged	Notes
		(Feet)	(Feet)	(Feet)	(Feet)	(S.U.)	(umhos/cm)	(Degrees C)	(S.U.)	(Gal.)	
MW-1	Initial	22.81	0.08	22.89	30.00	N/A	N/A	N/A	N/A	3.40	Free Product
MW-2	Initial			23.78	35.00	N/A	N/A	N/A	N/A	5.40	Strong Odor
MW-3	Initial			22.21	30.00	5.00	0.099	19.20	5.81		
MW-3	1st Volume				30.00	5.10	0.017	18.20	5.53	1.20	
MW-3	2nd Volume				30.00	4.91	0.013	17.80	5.73	1.20	
MW-3	3rd Volume				30.00	4.62	0.012	17.70	5.51	1.40	
MW-3	Post Sampling				30.00	4.50	0.012	17.70	5.80		Full Recharge
MW-4	Initial			22.09	35.00	N/A	N/A	N/A	N/A	6.30	Strong Odor
MW-5	Initial			26.53	35.00	4.69	0.013	18.90	6.96		
MW-5	1st Volume				35.00	4.52	0.012	18.00	6.11	1.30	
MW-5	2nd Volume				35.00	4.27	0.012	17.90	6.10	1.30	
MW-5	3rd Volume				35.00	4.33	0.012	17.70	6.29	1.50	
MW-5	Post Sampling				35.00	4.21	0.012	17.80	5.98		Full Recharge
MW-6	Initial			19.88	35.00	N/A	N/A	N/A	N/A	7.38	Strong Odor
MW-7	Initial			26.22	40.00	N/A	N/A	N/A	N/A	6.75	Strong Odor
MW-8	Initial	20.22	0.20	20.46	30.00	N/A	N/A	N/A	N/A	4.68	Free Product
MW-9	Initial			2.26	12.00	N/A	N/A	N/A	N/A		Gauged Only
MW-10	Initial			18.95	24.00	N/A	N/A	N/A	N/A	2.46	Strong Odor
MW-11	Initial			15.92	23.00	5.14	0.018	19.70	5.78		
MW-11	1st Volume				23.00	4.87	0.012	17.70	5.58	1.15	
MW-11	2nd Volume				23.00	4.58	0.011	17.00	5.92	1.35	
MW-11	Post Sampling				23.00	4.11	0.011	17.40	4.93		Bailed Dry
MW-12	Initial			3.02	12.00	N/A	N/A	N/A	N/A		Gauged Only
MW-13	Initial			6.28	15.00	N/A	N/A	N/A	N/A		Gauged Only
MW-14	Initial			1.77	10.00	N/A	N/A	N/A	N/A	4.02	Strong Odor

Table 2 - Continued
Summary of Field Observations - July 30, 2003
Highway 11 Grocery
13527 South Carolina Highway
Salem, South Carolina
UST Permit # 03439

Sample ID	Frequency	Depth to Product (Feet)	Free Product Thickness (Feet)	Depth to Groundwater (Feet)	Total Well Depth (Feet)	pH (S.U.)	Specific Conductivity (umhos/cm)	Water Temp. (Degrees C)	Dissolved Oxygen (S.U.)	Volume Purged (Gal.)	Notes
MW-15	Initial			10.67	12.00	N/A	N/A	N/A	N/A		Gauged Only
DMW-1	Initial			22.72	45.00	N/A	N/A	N/A	N/A	10.80	Strong Odor
DMW-2	Initial			16.49	75.00	6.29	0.050	19.80	4.94		
DMW-2	1st Volume				75.00	6.14	0.050	18.70	4.74	9.54	
DMW-2	2nd Volume				75.00	6.34	0.051	17.80	5.43	9.54	
DMW-2	3rd Volume				75.00	6.71	0.043	18.20	6.12	9.54	
DMW-2	Post Sampling				75.00	6.54	0.039	17.30	7.03		Full Recharge
DMW-4	Initial			23.18	60.00	5.21	0.048	21.70	5.94		
DMW-4	1st Volume				60.00	5.50	0.034	20.40	6.29	6.00	
DMW-4	2nd Volume				60.00	5.40	0.034	19.10	6.73	6.00	
DMW-4	3rd Volume				60.00	5.20	0.034	19.10	6.39	6.00	
DMW-4	Post Sampling				60.00	5.11	0.034	18.90	6.77		Full Recharge

Notes: N/A = Not Applicable

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGHAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 PH@25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*ALTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOUBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .08 feet

Depth to Ground Water (DGW) 22.89 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 7.11 feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals
3 casing volume (3 X CV) = 3.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1145</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not well free product at 22.81

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>+0.002 pH@25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 23.78 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 11.22 feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= 5.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.4 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1215</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: bad well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW3

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.21 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 7.79 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.2 gals
3 casing volume (3 X CV)= 3.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1110</u>
pH (s.u.)	<u>5.00</u>	<u>5.10</u>	<u>4.91</u>	<u>4.62</u>			<u>4.50</u>
Specific Conductivity (µmhos/cm)	<u>.099</u>	<u>.017</u>	<u>.013</u>	<u>.012</u>			<u>.012</u>
Water Temperature (°C)	<u>19.2</u>	<u>18.2</u>	<u>17.8</u>	<u>17.7</u>			<u>17.7</u>
Dissolved Oxygen	<u>5.81</u>	<u>5.53</u>	<u>5.73</u>	<u>5.51</u>			<u>5.80</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302168

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/AAC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Hwy 11 Groc

Site ID#: 03439 Monitoring Well # MW4

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.09 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 12.91 feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals

3 casing volume (3 X CV) = 6.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1215</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEJAND, J. MONEGHAN, V. LYNN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW5

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x (D/2)² for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 26.53 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 8.47 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.3 gals

3 casing volume (3 X CV) = 4.1 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1140</u>
pH (s.u.)	<u>4.09</u>	<u>4.52</u>	<u>4.27</u>	<u>4.33</u>			<u>4.21</u>
Specific Conductivity (µmhos/cm)	<u>.013</u>	<u>.012</u>	<u>.012</u>	<u>.012</u>			<u>.012</u>
Water Temperature (°C)	<u>18.9</u>	<u>18.0</u>	<u>17.9</u>	<u>17.7</u>			<u>17.8</u>
Dissolved Oxygen	<u>6.96</u>	<u>6.11</u>	<u>6.10</u>	<u>6.29</u>			<u>5.98</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302164

Date (mm/dd/yy): 7/30/03

Field Personnel: J. WEYAND, J. MONEGHAN, V. CHRISTIAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW6

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 19.88 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 15.12 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.46 gals

3 casing volume (3 X CV) = 7.38 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 7.38 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1235</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Next well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGHAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW7

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 26.22 feet

Total Well Depth (TWD) 40 feet

Length of the water column (LWC=TWD-DGW) 13.78 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 2.25 gals

3 casing volume (3 X CV)= 6.75 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 6.75 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1130</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hat well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEIAND, J. McNEEGHAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*ALTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW 8

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 20.22 feet

Depth to Ground Water (DGW) 20.46 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 9.54 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.56 gals

3 casing volume (3 X CV) = 4.68 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HONBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW9

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.26 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302,69

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CHRISTIAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 PH @ 25°C</u>	standard <u>4.49ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*ALTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW10

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 18.95 feet

Total Well Depth (TWD) 24 feet

Length of the water column (LWC=TWD-DGW) 5.05 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .92 gals
3 casing volume (3 X CV) = 2.76 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1230</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: shut well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGHAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/cm AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW11

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 15.92 feet

Total Well Depth (TWD) 23 feet

Length of the water column (LWC=TWD-DGW) 7.08 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.15 gals
3 casing volume (3 X CV)= 3.45 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 2.5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1205</u>
pH (s.u.)	<u>5.14</u>	<u>4.87</u>	<u>4.58</u>				<u>4.11</u>
Specific Conductivity (µmhos/cm)	<u>1018</u>	<u>1012</u>	<u>1011</u>				<u>1011</u>
Water Temperature (°C)	<u>19.7</u>	<u>17.7</u>	<u>17.0</u>				<u>17.4</u>
Dissolved Oxygen	<u>5.78</u>	<u>5.58</u>	<u>5.92</u>				<u>4.8</u>
PID readings, if required							

Remarks: BANCO ONLY

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CRISMON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. 1854 Conductivity Meter serial no. 1854

pH=4.0 ± 0.002 PH @ 25°C standard 4.49ms/AC

pH=7.0 _____ standard _____

pH=10.0 _____ standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOUBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW12

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 3.02 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CRISMON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

ALTO CAL. SOLUTION PROVIDES PINE ENVIRONMENTAL SERVICE FOR HOUSA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW13

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 6.28 feet

Total Well Depth (TWD) * 12 *(15) feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: * stand up well (3' rise)

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGHAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

ALTO CAL. SOLUTION PROVIDING PINE ENVIRONMENTAL SERVICE FOR HOMBA Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW14

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 1.77 feet

Total Well Depth (TWD) 10 feet

Length of the water column (LWC=TWD-DGW) 8.23 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.34 gals

3 casing volume (3 X CV) = 4.02 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 4.02 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1300</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: bat well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEIAND, J. MONEGAN, V. CROSBY

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/AAC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # MW15

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 10.67 feet

Total Well Depth (TWD) * 9 (12) feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals

3 casing volume (3 X CV) = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: * stand up well (3' rise)

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGHAN, V. CROSTON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # DMW1

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 22.72 feet

Total Well Depth (TWD) 45 feet

Length of the water column (LWC=TWD-DGW) 22.28 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 3.6 gals
3 casing volume (3 X CV)= 10.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1130</u>
pH (s.u.)							
Specific Conductivity (umhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Not well

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEHND, J. McNEEGHAN, V. CROSSMAN

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>1854</u>	serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/AC</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*ALTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: HWY 11 GROC

Site ID#: 03439 Monitoring Well # DMW2

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 16.49 feet

Total Well Depth (TWD) 75 feet

Length of the water column (LWC=TWD-DGW) 58.51 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 9.54 gals
3 casing volume (3 X CV) = 28.62 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1315</u>
pH (s.u.)	<u>6.29</u>	<u>6.14</u>	<u>6.34</u>	<u>6.71</u>			<u>6.54</u>
Specific Conductivity (µmhos/cm)	<u>.050</u>	<u>.050</u>	<u>.051</u>	<u>.043</u>			<u>.039</u>
Water Temperature (°C)	<u>19.8</u>	<u>18.7</u>	<u>17.8</u>	<u>18.2</u>			<u>17.3</u>
Dissolved Oxygen	<u>4.94</u>	<u>4.74</u>	<u>5.43</u>	<u>6.12</u>			<u>7.03</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

302169

Date (mm/dd/yy): 7/30/03

Field Personnel: S. WEYAND, J. MONEGAN, V. CRISMON

General Weather Conditions: _____

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>1854</u>	Conductivity Meter serial no. <u>1854</u>
pH=4.0 <u>± 0.002 pH @ 25°C</u>	standard <u>4.49 ms/°C</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

*AUTO CAL. SOLUTION PROVIDE PINE ENVIRON-
MENTAL SERVICE FOR HOMBA
Chain of Custody*

Relinquished by _____ Date/Time _____
Received by _____ Date/Time _____

Facility Name: Hwy 11 Groc

Site ID#: 03439 Monitoring Well # DMW4

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 23.18 feet

Total Well Depth (TWD) 60 feet

Length of the water column (LWC=TWD-DGW) 36.82 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 6.0 gals
3 casing volume (3 X CV)= 18.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1115</u>
pH (s.u.)	<u>5.21</u>	<u>5.50</u>	<u>5.40</u>	<u>5.20</u>			<u>5.11</u>
Specific Conductivity (µmhos/cm)	<u>0.48</u>	<u>0.34</u>	<u>0.34</u>	<u>0.34</u>			<u>0.34</u>
Water Temperature (°C)	<u>21.7</u>	<u>20.4</u>	<u>19.1</u>	<u>19.1</u>			<u>18.9</u>
Dissolved Oxygen	<u>5.94</u>	<u>6.29</u>	<u>6.73</u>	<u>6.39</u>			<u>6.77</u>
PID readings, if required							

Remarks: _____

Appendix D

**Table 3 – Summary of July 30, 2003 Laboratory Analytical Data
&
Copies of Laboratory Analytical Data and Chain of Custody**

Table 3
July 30, 2003 Laboratory Analytical Data
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)
MW-1	7,600.00	28,000.00	6,300.00	32,000.00	25,000.00	<2500.00
MW-2	5.80	<5.00	<1.00	5.30	<1.00	<5.00
MW-3	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-4	4,000.00	14,000.00	2,700.00	13,000.00	2,100.00	<500.00
MW-5	4.20	17.00	3.60	18.00	2.20	<5.00
MW-6	4,200.00	13,000.00	1,600.00	8,900.00	21,000.00	400.00
MW-7	18.00	18.00	<1.00	9.70	<1.00	<5.00
MW-8	12,000.00	40,000.00	3,600.00	18,000.00	15,000.00	660.00
MW-9	N/A	N/A	N/A	N/A	N/A	N/A
MW-10	170.00	420.00	43.00	240.00	540.00	6.50
MW-11	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
MW-12	N/A	N/A	N/A	N/A	N/A	N/A
MW-13	N/A	N/A	N/A	N/A	N/A	N/A
MW-14	3,100.00	9,700.00	1,800.00	9,300.00	4,300.00	<500.00
MW-15	N/A	N/A	N/A	N/A	N/A	N/A
DMW-1	<1.00	<5.00	<1.00	<3.00	4.20	<5.00
DMW-2	<1.00	8.40	6.80	30.00	<1.00	6.70
DMW-4	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00
CK-1	N/A	N/A	N/A	N/A	N/A	N/A
CK-2	N/A	N/A	N/A	N/A	N/A	N/A
WW-1	N/A	N/A	N/A	N/A	N/A	N/A

Notes: N/A = Not Applicable



**ENVIRONMENTAL
SCIENCE CORP.**

RECEIVED

AUG 11 2003

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-1
Collected By : JW/SM/VC
Collection Date : 07/30/03 11:45

ESC Sample # : L122656-01
Site ID : 03439
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	7600	500	ug/l	8260B	08/04/03	500
Toluene	28000	2500	ug/l	8260B	08/04/03	500
Ethylbenzene	6300	500	ug/l	8260B	08/04/03	500
Total Xylenes	32000	1500	ug/l	8260B	08/04/03	500
Methyl tert-butyl ether	25000	500	ug/l	8260B	08/04/03	500
Naphthalene	BDL	2500	ug/l	8260B	08/04/03	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	500
Dibromofluoromethane	97.		% Rec.	8260B	08/04/03	500
4-Bromofluorobenzene	99.		% Rec.	8260B	08/04/03	500


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 08/07/03 08:50 Printed: 08/07/03 08:51



**ENVIRONMENTAL
SCIENCE CORP.**

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : MW-2
Collected By : JW/SM/VC
Collection Date : 07/30/03 12:15

ESC Sample # : L122656-02
Site ID :
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	5.8	1.0	ug/l	8260B	08/04/03	1
Toluene	BDL	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	5.3	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	95.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	99.		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 08/07/03 08:50 Printed: 08/07/03 08:51



**ENVIRONMENTAL
SCIENCE CORP.**

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

ESC Sample # : L122656-03

Date Received : August 01, 2003
Description : HWY 11 Grocery

Site ID :

Sample ID : MW-3

Project # : 302-169

Collected By : JW/SM/VC
Collection Date : 07/30/03 11:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/01/03	1
Toluene	BDL	5.0	ug/l	8260B	08/01/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/01/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/01/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/01/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/01/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/03	1
Dibromofluoromethane	100		% Rec.	8260B	08/01/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	08/01/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

August 07, 2003

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-4

Collected By : JW/SM/VC
Collection Date : 07/30/03 12:15

ESC Sample # : L122656-04

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4000	100	ug/l	8260B	08/04/03	100
Toluene	14000	500	ug/l	8260B	08/04/03	100
Ethylbenzene	2700	100	ug/l	8260B	08/04/03	100
Total Xylenes	13000	300	ug/l	8260B	08/04/03	100
Methyl tert-butyl ether	2100	100	ug/l	8260B	08/04/03	100
Naphthalene	BDL	500	ug/l	8260B	08/04/03	100
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	100
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	100
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	100


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-5

Collected By : JW/SM/VC
Collection Date : 07/30/03 11:40

ESC Sample # : L122656-05

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4.2	1.0	ug/l	8260B	08/01/03	1
Toluene	17.	5.0	ug/l	8260B	08/01/03	1
Ethylbenzene	3.6	1.0	ug/l	8260B	08/01/03	1
Total Xylenes	18.	3.0	ug/l	8260B	08/01/03	1
Methyl tert-butyl ether	2.2	1.0	ug/l	8260B	08/01/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/01/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/03	1
Dibromofluoromethane	100		% Rec.	8260B	08/01/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-6

Collected By : JW/SM/VC
Collection Date : 07/30/03 12:35

ESC Sample # : L122656-06

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	4200	50.	ug/l	8260B	08/01/03	50
Toluene	13000	2500	ug/l	8260B	08/04/03	500
Ethylbenzene	1600	50.	ug/l	8260B	08/01/03	50
Total Xylenes	8900	150	ug/l	8260B	08/01/03	50
Methyl tert-butyl ether	21000	500	ug/l	8260B	08/04/03	500
Naphthalene	400	250	ug/l	8260B	08/01/03	50
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/03	50
Dibromofluoromethane	96.		% Rec.	8260B	08/01/03	50
4-Bromofluorobenzene	96.		% Rec.	8260B	08/01/03	50


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-7

Collected By : JW/SM/VC
Collection Date : 07/30/03 11:30

ESC Sample # : L122656-07

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	18.	1.0	ug/l	8260B	08/04/03	1
Toluene	18.	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	9.7	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-8

Collected By : JW/SM/VC
Collection Date : 07/30/03 13:00

ESC Sample # : L122656-08

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	12000	500	ug/l	8260B	08/04/03	500
Toluene	40000	2500	ug/l	8260B	08/04/03	500
Ethylbenzene	3600	50.	ug/l	8260B	08/02/03	50
Total Xylenes	18000	150	ug/l	8260B	08/02/03	50
Methyl tert-butyl ether	15000	500	ug/l	8260B	08/04/03	500
Naphthalene	660	250	ug/l	8260B	08/02/03	50
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/02/03	50
Dibromofluoromethane	99.		% Rec.	8260B	08/02/03	50
4-Bromofluorobenzene	100		% Rec.	8260B	08/02/03	50


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-10

Collected By : JW/SM/VC
Collection Date : 07/30/03 12:30

ESC Sample # : L122656-09

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	170	1.0	ug/l	8260B	08/02/03	1
Toluene	420	50.	ug/l	8260B	08/04/03	10
Ethylbenzene	43.	1.0	ug/l	8260B	08/02/03	1
Total Xylenes	240	3.0	ug/l	8260B	08/02/03	1
Methyl tert-butyl ether	540	10.	ug/l	8260B	08/04/03	10
Naphthalene	6.5	5.0	ug/l	8260B	08/02/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/02/03	1
Dibromofluoromethane	97.		% Rec.	8260B	08/02/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/02/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-11

Collected By : JW/SM/VC
Collection Date : 07/30/03 12:05

ESC Sample # : L122656-10

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/04/03	1
Toluene	BDL	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	96.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	96.		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : MW-14

Collected By : JW/SM/VC
Collection Date : 07/30/03 13:00

ESC Sample # : L122656-11

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	3100	100	ug/l	8260B	08/04/03	100
Toluene	9700	500	ug/l	8260B	08/04/03	100
Ethylbenzene	1800	100	ug/l	8260B	08/04/03	100
Total Xylenes	9300	300	ug/l	8260B	08/04/03	100
Methyl tert-butyl ether	4300	100	ug/l	8260B	08/04/03	100
Naphthalene	BDL	500	ug/l	8260B	08/04/03	100
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	100
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	100
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	100


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery
Sample ID : DMW-1
Collected By : JW/SM/VC
Collection Date : 07/30/03 11:30

ESC Sample # : L122656-12
Site ID :
Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/04/03	1
Toluene	BDL	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	4.2	1.0	ug/l	8260B	08/04/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	95.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

August 07, 2003

Date Received : August 01, 2003
Description : HWY 11 Grocery

ESC Sample # : L122656-13

Sample ID : DMW-2

Site ID :

Collected By : JW/SM/VC
Collection Date : 07/30/03 13:15

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/04/03	1
Toluene	8.4	5.0	ug/l	8260B	08/04/03	1
Ethylbenzene	6.8	1.0	ug/l	8260B	08/04/03	1
Total Xylenes	30.	3.0	ug/l	8260B	08/04/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/04/03	1
Naphthalene	6.7	5.0	ug/l	8260B	08/04/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/04/03	1
Dibromofluoromethane	98.		% Rec.	8260B	08/04/03	1
4-Bromofluorobenzene	100		% Rec.	8260B	08/04/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

August 07, 2003

Mr. Paul Bekish
SEI Environmental - Columbia, SC
3021 McNaughton Drive, Suite 9
Columbia, SC 29223

Date Received : August 01, 2003
Description : HWY 11 Grocery

Sample ID : DMW-4

Collected By : JW/SM/VC
Collection Date : 07/30/03 11:15

ESC Sample # : L122656-14

Site ID :

Project # : 302-169

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	08/02/03	1
Toluene	BDL	5.0	ug/l	8260B	08/02/03	1
Ethylbenzene	BDL	1.0	ug/l	8260B	08/02/03	1
Total Xylenes	BDL	3.0	ug/l	8260B	08/02/03	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	08/02/03	1
Naphthalene	BDL	5.0	ug/l	8260B	08/02/03	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/02/03	1
Dibromofluoromethane	97.		% Rec.	8260B	08/02/03	1
4-Bromofluorobenzene	98.		% Rec.	8260B	08/02/03	1


Leslie Newton, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

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SEI Environmental - Columbia, SC
 3021 McNaughton Drive, Suite 9
 Columbia, SC 29223

Alternate billing information:
 Email: **pbekish@sei-environmental.**

Analysis/Container/Preservative
V8260B|TEXMN 40ml|Amb-HCl

Chain of Custody
 Page 2 of 2

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
 12065 Lebanon Road
 Mt. Juliet, TN 37122
 Phone (800) 767-5859
 FAX (615) 758-5859

Report to: **Mr. Paul Bekish**
 Project Description: **HWY 11 GROC**
 City/State Collected: **SALEM, SC**

Client Project #: **302-169**
 Lab Project #: **SEICSC-302169**
 Site/Facility ID#: **03439**
 P.O.#:

Phone: (803) 788-2535
 FAX: (803) 788-2399
 Collected by (print): **J. WEBER AND S. MONTEKIAN J. CRESKOW**
 Collected by (signature): *[Signature]*

Rush? (Lab MUST Be Notified)
 ___ Same Day200%
 ___ Next Day100%
 ___ Two Day50%

Date Results Needed: **8/7/03**
 Email? ___ No Yes
 FAX? ___ No Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs				
MW1	G	GW		7/30/03	1145	2	X			
MW2	}	GW		}	1215	2	X			
MW3		GW			1110	2	X			
MW4		GW			1215	2	X			
MW5		GW			1140	2	X			
MW6		GW			1235	2	X			
MW7		GW			1130	2	X			
MW8		GW			1300	2	X			
MW10		GW			1230	2	X			

CoCode: **SEICSC** (lab use only)
 Template/Prelogin: **T20210 P88989**
 Cooler #: **716 ds**
 Shipped Via: **FedEX Standard**

Remarks/Contaminant	Sample # (lab only)
	L122656-01
	02
	03
	04
	05
	06
	07
	08
	09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks: _____ pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 7/31/03	Time: 1400	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) OK
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 2.7 Bottles Received: 28+1TB	
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 8/1/03 Time: 9:00	pH Checked: NCF

SEI Environmental - Columbia, SC
 3021 McNaughton Drive, Suite 9
 Columbia, SC 29223

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
 Page 2 of 3

Report to: **Mr. Paul Bekish** Email: **pbekish@sei-environmental.**

Prepared by:



SCIENCE CORP.

12065 Lebanon Road
 Mt. Juliet, TN 37122

Phone (800) 767-5859

FAX (615) 758-5859

Project Description: **HWY 11 GROC** City/State Collected: **SALEM, SC**

Phone: (803) 788-2535 Client Project #: **302-169** Lab Project #: **SEICSC-302169**
 FAX: (803) 788-2399

Collected by (print): **S. WESTMAN J. MONTGOMERY J. CHESKOLA** Site/Facility ID#: **03439** P.O.#:

Collected by (signature): *[Signature]* Rush? (Lab MUST Be Notified)
 ___ Same Day200% Date Results Needed: **8/7/03**
 ___ Next Day100% Email? ___ No Yes
 ___ Two Day50% FAX? ___ No ___ Yes No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
MW11	G	GW		7/30/03	1205	2 X
MW14	↓	GW		↓	1300	2 X
DMW1	↓	GW		↓	1130	2 X
DMW2	↓	GW		↓	1315	2 X
DMW4	↓	GW		↓	1115	2 X

V8260BTEXMN 40mlAmb-HCl

CoCode: **SEICSC** (lab use only)
 Template/Prelogin: **T20210 P88989**
 Cooler #: **7116ds**
 Shipped Via: **FedEX Standard**

Remarks/Contaminant Sample # (lab only)

122606-10
 11
 13
 13
 14

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

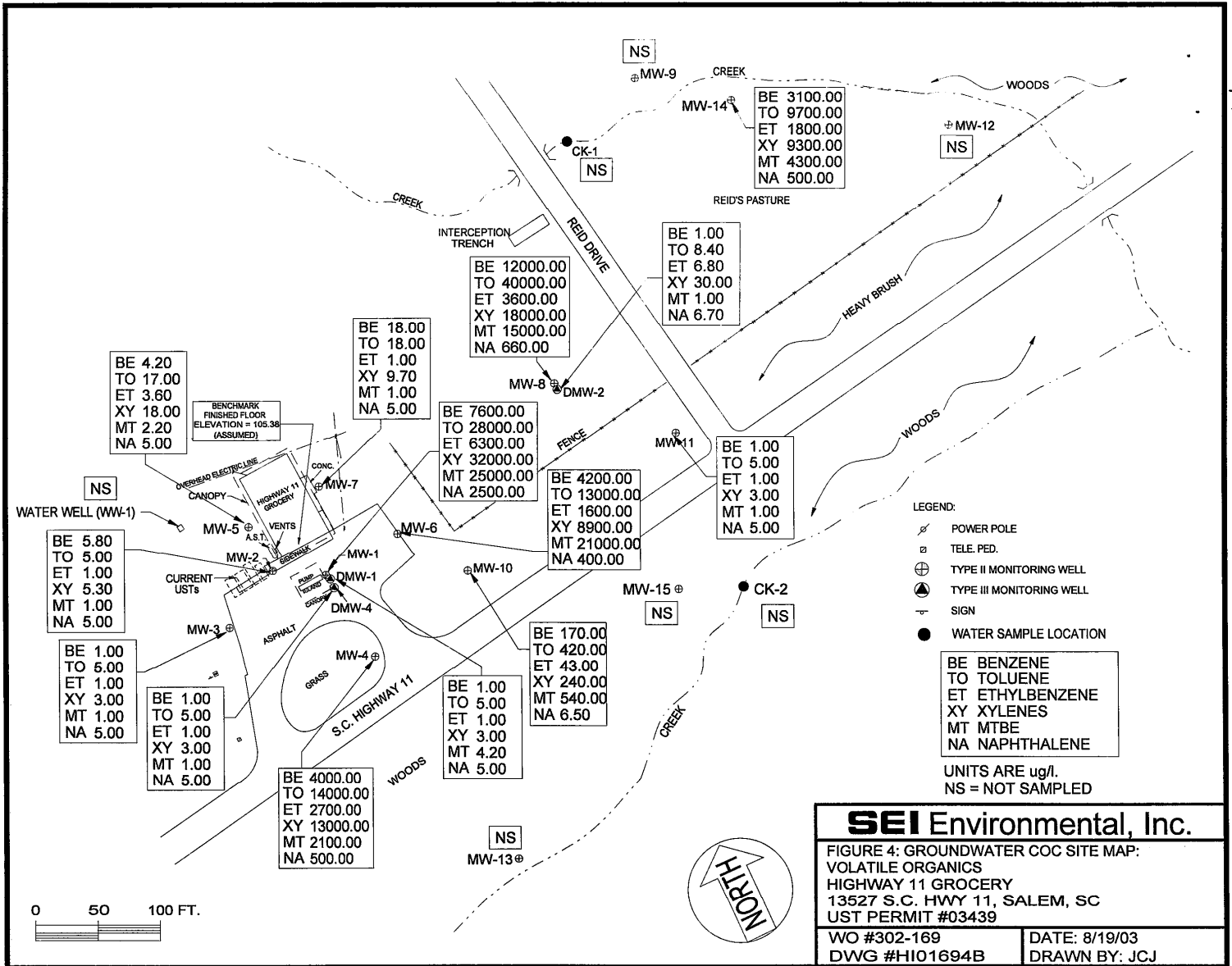
pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 7/30/03	Time: 1400	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) OK
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 2.7 Bottles Received: 28+1TB	
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 8/1/03 Time: 9:00	pH Checked: _____ NCF: _____

Appendix E
Figure 3 – July 30, 2003 CoC Map



Appendix F
Non-Hazardous Manifest & Disposal Receipt

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. GK5786

2. Page 1 of

07/31/03

3. Generator's Name and Mailing Address
SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name
SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone
803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
G & K TANK SERVICE
PO BOX 1384
SUMTER, SC 29151

US EPA ID Number
987573557

C. Facility's Phone
800-800-6840

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total Quantity

14. Unit Wt/Vol

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
CAMDEN SHELL CAMDEN, SC

01 DM

b. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

96.39 gal

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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY



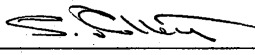
Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 96.39 gallons
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ~~oil~~^{water} has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by 

Date 07/31/03

Appendix G
Table 4 – July 30, 2003 System Effectiveness

Table 4
System Effectiveness - July 30, 2003 Laboratory Analytical Data
 Highway 11 Grocery
 13527 South Carolina Highway 11
 Salem, South Carolina
 SCDHEC Site # 03439

Well	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	Total Conc. (ppb)
MW-1	7,600.00	28,000.00	6,300.00	32,000.00	25,000.00	2,500.00	101,400.00
MW-2	5.80	5.00	1.00	5.30	1.00	5.00	23.10
MW-3	1.00	5.00	1.00	3.00	1.00	5.00	16.00
MW-4	4,000.00	14,000.00	2,700.00	13,000.00	2,100.00	500.00	36,300.00
MW-5	4.20	17.00	3.60	18.00	2.20	5.00	50.00
MW-6	4,200.00	13,000.00	1,800.00	8,900.00	21,000.00	400.00	49,100.00
MW-7	18.00	18.00	1.00	9.70	1.00	5.00	52.70
MW-8	12,000.00	40,000.00	3,600.00	18,000.00	15,000.00	660.00	89,260.00
MW-10	170.00	420.00	43.00	240.00	540.00	6.50	1,419.50
MW-11	1.00	5.00	1.00	3.00	1.00	5.00	16.00
MW-14	3,100.00	9,700.00	1,800.00	9,300.00	4,300.00	500.00	28,700.00
DMW-1	1.00	5.00	1.00	3.00	4.20	5.00	19.20
DMW-2	1.00	8.40	6.80	30.00	1.00	6.70	53.90
DMW-4	1.00	5.00	1.00	3.00	1.00	5.00	16.00
Initial Conc.	31,103.00	105,188.40	16,059.40	81,515.00	67,952.40	4,608.20	306,426.40
SSTL Conc.	3,881.00	57,303.00	33,705.00	339,605.00	10,645.00	2,452.00	447,591.00
Initial Conc. Above SSTL	27,222.00	47,885.40	0.00	0.00	57,307.40	2,156.20	134,571.00

(Initial Mass above SSTL - Current Mass Above SSTL)(100)/(Initial Mass Above SSTL)=(447,591.00 - 134,571.00) (100) / (134571.00)=69.93%

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

RECEIVED

APR 06 2001

Underground Storage
Tank Program

April 4, 2001

Mr. Konstantine Akhvlediani, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

38-TECH

Re: Highway 11 Grocery
13527 SC Highway 11
Salem, South Carolina
UST Permit #03439

Dear Mr. Akhvlediani:

Please find enclosed laboratory analytical results for the two groundwater monitor wells that SEI Environmental, Inc. (SEI) personnel installed on March 29, 2001. Monitor Wells MW-1 and MW-2 were installed with a truck mounted CME-75 drill rig to approximate depths of 30 feet and 35 feet below ground surface (bgs), respectively. Specifically, Monitor Well MW-1 was installed adjacent to the dispenser island, and Monitor Well MW-2 was installed adjacent to the underground storage tank basin. Monitor Well MW-1 was installed using hollow stem augers, and air rotary drilling techniques were used in the installation of Monitor Well MW-2. Monitor well construction logs are presented in Appendix A. A site map depicting the monitor well locations is attached.

During the installation of the monitor wells, SEI personnel collected soil samples at five foot intervals. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The interval from each monitor well that had the highest OVA-FID reading was submitted for laboratory analysis. At each monitor well, the highest OVA-FID reading was detected approximately 20 feet bgs. These samples were placed in laboratory supplied containers, placed on ice, and delivered to TestAmerica Inc. in Columbia, South Carolina for laboratory analysis. The samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and naphthalene by EPA method 8260B, and polynuclear aromatic hydrocarbons (PAH) by EPA method 8270C. BTEX

Mr. Konstantine Akhvlediani
April 4, 2001
Page 2 of 2

and naphthalene constituents were detected at each monitor well location. Laboratory results are presented in Appendix B.

On March 30, 2001, SEI personnel mobilized to the site and sampled Monitor Wells MW-1 and MW-2 for BTEX, EDB, naphthalene, MTBE, PAH, and lead constituents. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. A new, disposable, polyethylene bailer was used for the collection of the water samples from the monitor wells. Each sample was obtained after pH and temperature values had equilibrated unless petroleum odor was emanating from the well. If petroleum odors were observed in the monitor well, the groundwater sample was obtained after three well volumes were purged. All purge water was drummed for proper disposal at a permitted treatment facility. The samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to TestAmerica Inc. in Orlando, Florida for proper analysis. Laboratory results detected the presence of BTEX, MTBE, naphthalene, and lead concentrations at Monitor Wells MW-1 and MW-2. Laboratory results are presented in Appendix C.

As a result of BTEX, MTBE, naphthalene, and lead concentrations existing greater than their respective risk based screening levels at Monitor Well MW-1, SEI has attached a Tier II Assessment proposal in Appendix D. Should you have any questions or require additional information, please contact me at 788-2535.

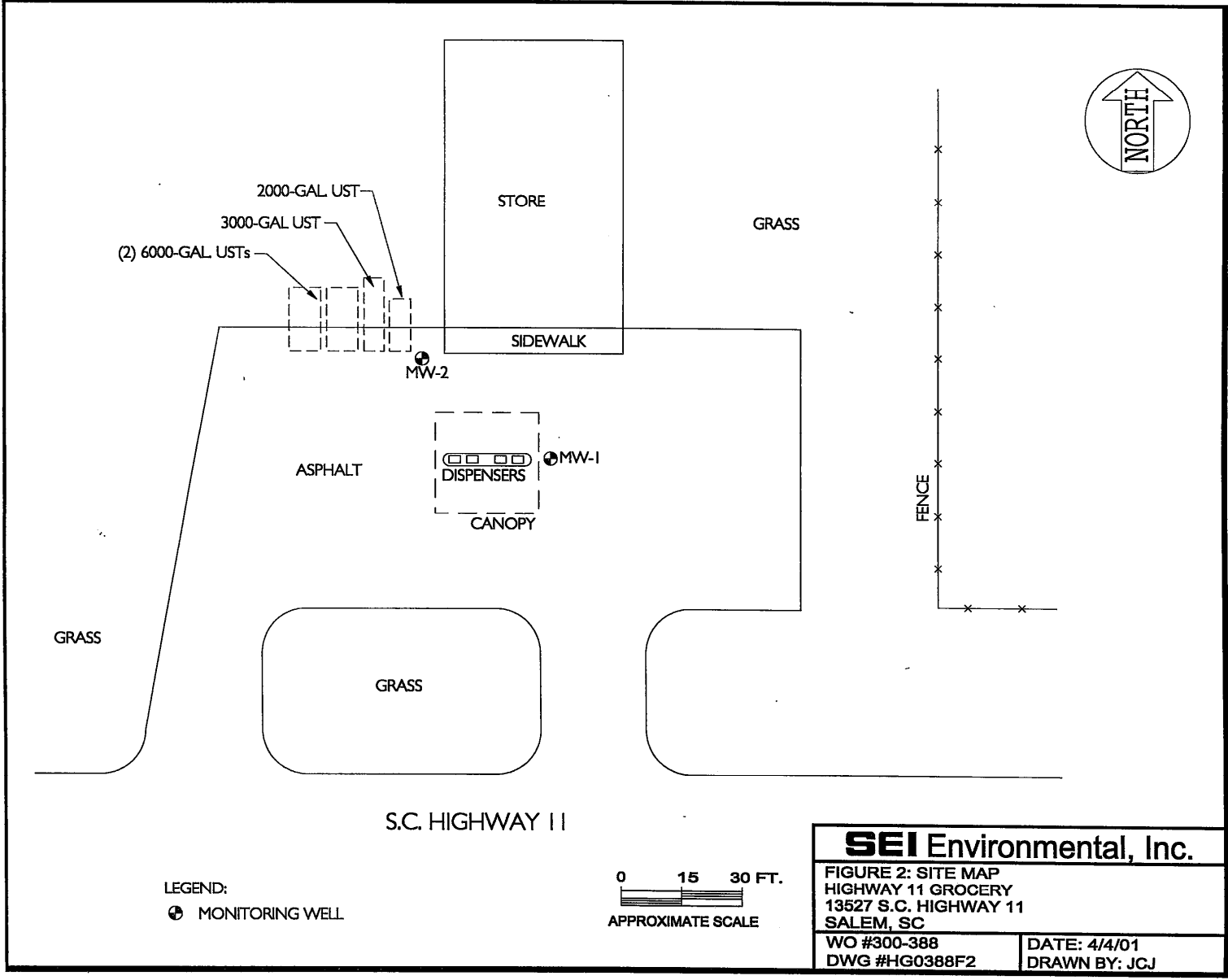
Sincerely,
SEI Environmental, Inc.



Bob Bolton
Project Manager

Enclosure

cc: Mr. Steve Smith, Highway 11 Grocery



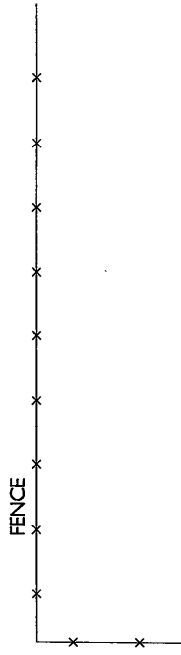
2000-GAL UST
 3000-GAL UST
 (2) 6000-GAL USTs

STORE
 SIDEWALK

GRASS

MW-2

ASPHALT
 DISPENSERS
 CANOPY
 MW-1



GRASS

GRASS

S.C. HIGHWAY 11

LEGEND:
 ⊕ MONITORING WELL

0 15 30 FT.
 APPROXIMATE SCALE

SEI Environmental, Inc.	
FIGURE 2: SITE MAP HIGHWAY 11 GROCERY 13527 S.C. HIGHWAY 11 SALEM, SC	
WO #300-388 DWG #HG0388F2	DATE: 4/4/01 DRAWN BY: JCJ

APPENDIX A

Monitor Well Construction Logs

APPENDIX B

Soil Laboratory Analytical Results

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A43207
 Sample ID: MW-1
 Sample Type: Soil
 Site ID:

Project:
 Project Name: HIGHWAY 11 GROCERY
 Sampler: BOB BOLTON

Date Collected: 3/29/01
 Time Collected: 11:11
 Date Received: 3/31/01
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	51.4	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Acenaphthene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Anthracene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Fluoranthene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Fluorene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Pyrene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Benzo(a)anthracene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Benzo(a)pyrene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Benzo(b)fluoranthene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Benzo(k)fluoranthene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Chrysene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Dibenzo(a,h)anthracene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Acenaphthylene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Benzo(g,h,i)perylene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
Phenanthrene	ND	mg/kg	1.87	0.081	20	4/ 1/01	14:33	J.Fuqua	8270C	3046
VOLATILE ORGANICS										
Benzene	93.68	mg/kg	1.149	0.0020	500	4/ 2/01	7:43	B.Herford	8260B	3595
Ethylbenzene	678.2	mg/kg	22.99	0.0020	10000	4/ 2/01	16:46	B.Herford	8260B	3595
Naphthalene	110.3	mg/kg	2.874	0.0050	500	4/ 2/01	7:43	B.Herford	8260B	3595
Toluene	678.2	mg/kg	22.99	0.0020	10000	4/ 2/01	16:46	B.Herford	8260B	3595
Xylenes, Total	1061.	mg/kg	22.99	0.0020	10000	4/ 2/01	16:46	B.Herford	8260B	3595
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	3/31/01	9:42	D.Yeager	CLP	2647

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A43207
 Sample ID: MW-1
 Project:
 Page 2

TCLP RESULTS

Analyte	Result	Units	Reg Limit	Matrix Spike		Date	Method
				Recovery (%)			

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	24.6 gm	1.0 ml	3/31/01		J. Rudden	3550
Volatile Organics	5.0 g	5.0 ml	3/29/01	11:11	B.Herford	5035

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	95.	50. - 140.
surr-Toluene d8	104.	73. - 139.
surr-4-Bromofluorobenzene	109.	62. - 131.
surr-Dibromofluoromethane	95.	64. - 145.

- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A43207
Sample ID: MW-1
Project:
Page 3

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By:  Report Date: 4/ 2/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

ANALYTICAL REPORT

SEI 8990
 BOB BOLTON
 3021 MCNAUGHTON DR. STE 9
 COLUMBIA, SC 29223

Lab Number: 01-A43208
 Sample ID: MW-2
 Sample Type: Soil
 Site ID:

Date Collected: 3/29/01
 Time Collected: 13:40
 Date Received: 3/31/01
 Time Received: 9:00

Project:
 Project Name: HIGHWAY 11 GROCERY
 Sampler: BOB BOLTON

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Acenaphthene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Anthracene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Fluoranthene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Fluorene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Pyrene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Benzo(a)anthracene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Benzo(a)pyrene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Benzo(b)fluoranthene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Benzo(k)fluoranthene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Chrysene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Dibenzo(a,h)anthracene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Acenaphthylene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Benzo(g,h,i)perylene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
Phenanthrene	ND	mg/kg	0.089	0.079	1	3/31/01	23:30	J.Fuqua	8270C	3046
VOLATILE ORGANICS										
Benzene	0.0063	mg/kg	0.0023	0.0020	1	4/ 2/01	0:55	B.Herford	8260B	3595
Ethylbenzene	ND	mg/kg	0.0023	0.0020	1	4/ 2/01	0:55	B.Herford	8260B	3595
Naphthalene	ND	mg/kg	0.0059	0.0050	1	4/ 2/01	0:55	B.Herford	8260B	3595
Toluene	0.0206	mg/kg	0.0023	0.0020	1	4/ 2/01	0:55	B.Herford	8260B	3595
Xylenes, Total	0.0078	mg/kg	0.0023	0.0020	1	4/ 2/01	0:55	B.Herford	8260B	3595
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	89.	%			1	3/31/01	9:42	D.Yeager	CLP	2647

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A43208
 Sample ID: MW-2
 Project:
 Page 2

TCLP RESULTS

Analyte	Result	Units	Reg Limit	Matrix Spike		Date	Method
				Recovery (%)			

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	25.2 gm	1.0 ml	3/31/01		J. Rudden	3550
Volatile Organics	4.8 g	5.0 ml	3/29/01	13:40	B.Herford	5035

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	93.	50. - 140.
surr-Toluene d8	93.	73. - 139.
surr-4-Bromofluorobenzene	104.	62. - 131.
surr-Dibromofluoromethane	88.	64. - 145.
surr-Nitrobenzene-d5	78.	26. - 106.
surr-2-Fluorobiphenyl	75.	25. - 107.
surr-Terphenyl d14	81.	28. - 128.

- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 01-A43208
Sample ID: MW-2
Project:
Page 3

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By:



Report Date: 4/ 2/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 84009

End of Sample Report.

PROJECT QUALITY CONTROL DATA
Project Number:

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/kg	< 0.0020	0.0429	0.0500	86	60. - 115.	3595	01-A41956
Toluene	mg/kg	< 0.0020	0.0403	0.0500	81	46. - 114.	3595	01-A41956

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/kg	0.0429	0.0433	0.93	25.	3595
Toluene	mg/kg	0.0403	0.0404	0.25	28.	3595

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/kg	1.67	0.957	57	38 - 175	3046
Acenaphthene	mg/kg	1.67	0.957	57	41 - 122	3046
Anthracene	mg/kg	1.67	0.990	59	49 - 122	3046
Fluoranthene	mg/kg	1.67	1.02	61	53 - 127	3046
Fluorene	mg/kg	1.67	0.990	59	51 - 120	3046
Pyrene	mg/kg	1.67	0.957	57	49 - 130	3046
Benzo(a)anthracene	mg/kg	1.67	0.957	57	50 - 128	3046
Benzo(a)pyrene	mg/kg	1.67	0.957	57	51 - 132	3046
Benzo(b)fluoranthene	mg/kg	1.67	0.858	51	40 - 129	3046
Benzo(k)fluoranthene	mg/kg	1.67	0.957	57	49 - 167	3046
Chrysene	mg/kg	1.67	0.990	59	54 - 125	3046
Dibenzo(a,h)anthracene	mg/kg	1.67	1.25	75	32 - 146	3046

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number:

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Indeno(1,2,3-cd)pyrene	mg/kg	1.67	1.52	91	28 - 147	3046
Acenaphthylene	mg/kg	1.67	0.990	59	40 - 124	3046
Benzo(g,h,i)perylene	mg/kg	1.67	1.42	85	23 - 153	3046
Phenanthrene	mg/kg	1.67	0.990	59	52 - 123	3046

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/kg	0.0500	0.0443	89	77 - 119	3595
Ethylbenzene	mg/kg	0.0500	0.0471	94	78 - 120	3595
Naphthalene	mg/kg	0.0500	0.0487	97	62 - 140	3595
Toluene	mg/kg	0.0500	0.0423	85	76 - 117	3595
Xylenes, Total	mg/kg	0.1500	0.1390	93	81 - 117	3595

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.165	mg/kg	3046	3/31/01	22:15
Acenaphthene	< 0.165	mg/kg	3046	3/31/01	22:15
Anthracene	< 0.165	mg/kg	3046	3/31/01	22:15
Fluoranthene	< 0.165	mg/kg	3046	3/31/01	22:15
Fluorene	< 0.165	mg/kg	3046	3/31/01	22:15
Pyrene	< 0.165	mg/kg	3046	3/31/01	22:15
Benzo(a)anthracene	< 0.165	mg/kg	3046	3/31/01	22:15
Benzo(a)pyrene	< 0.165	mg/kg	3046	3/31/01	22:15
Benzo(b)fluoranthene	< 0.165	mg/kg	3046	3/31/01	22:15
Benzo(k)fluoranthene	< 0.165	mg/kg	3046	3/31/01	22:15
Chrysene	< 0.165	mg/kg	3046	3/31/01	22:15

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number:

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Dibenzo(a,h)anthracene	< 0.165	mg/kg	3046	3/31/01	22:15
Indeno(1,2,3-cd)pyrene	< 0.165	mg/kg	3046	3/31/01	22:15
Acenaphthylene	< 0.165	mg/kg	3046	3/31/01	22:15
Benzo(g,h,i)perylene	< 0.165	mg/kg	3046	3/31/01	22:15
Phenanthrene	< 0.165	mg/kg	3046	3/31/01	22:15

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Benzene	< 0.0020	mg/kg	3595	4/ 1/01	18:42
Ethylbenzene	< 0.0020	mg/kg	3595	4/ 1/01	18:42
Naphthalene	< 0.0050	mg/kg	3595	4/ 1/01	18:42
Toluene	< 0.0020	mg/kg	3595	4/ 1/01	18:42
Xylenes, Total	< 0.0020	mg/kg	3595	4/ 1/01	18:42
surr-1,2-Dichloroethane, d4	99.	% Rec	3595	4/ 1/01	18:42
surr-Toluene d8	95.	% Rec	3595	4/ 1/01	18:42
surr-4-Bromofluorobenzene	111.	% Rec	3595	4/ 1/01	18:42
surr-Dibromofluoromethane	92.	% Rec	3595	4/ 1/01	18:42

- Value outside Laboratory historical QC limits.

End of Report for Project 232122

APPENDIX C

Groundwater Laboratory Analytical Results

TestAmerica

INCORPORATED

April 4, 2001

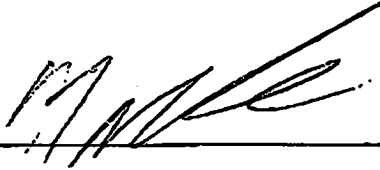
Page 1

CLIENT: SEI ENVIRONMENTAL, INC.
3021 McNAUGHTON DR.
SUITE 9
COLUMBIA, SC 29223

Order Number: 11866
Project Name: AMOCO HWY 11
Project Number:
Date Received: 03/31/01

ATTN: BOB BOLTON

Sample Identification	Lab Number	Collection Date and Time	
-----	-----	-----	-----
NW-1	01-F8227	3/30/01	9:45
NW-2	01-F8228	3/30/01	10:25

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

South Carolina Certification Number: DHEC 96012

Attachments: chain-of-custody/field sheet

April 4, 2001

Page 2

CLIENT: SEI ENVIRONMENTAL, INC.
3021 McNAUGHTON DR.
SUITE 9
COLUMBIA, SC 29223

ATTN: BOB BOLTON

Order Number: 11866
Project: AMOCO HWY 11
Sample ID: MW-1
Lab Number: 01-F8227
Date Collected: 03/30/01
Time Collected: 09:45
Date Received: 03/31/01

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	394.		ug/l	5.00	10	4/ 3/01	0:25	JLS	8270C	6832
Acenaphthene	< 1.00	U	ug/l	1.00	1	4/ 3/01	0:25	JLS	8270C	6832
Anthracene	< 1.00	U	ug/l	1.00	1	4/ 3/01	0:25	JLS	8270C	6832
Fluoranthene	< 1.00	U	ug/l	1.00	1	4/ 3/01	0:25	JLS	8270C	6832
Fluorene	0.370	I	ug/l	1.00	1	4/ 3/01	0:25	JLS	8270C	6832
Pyrene	< 5.00	U	ug/l	5.00	1	4/ 3/01	0:25	JLS	8270C	6832
Benzo(a)anthracene	< 0.200	U	ug/l	0.200	1	4/ 3/01	0:25	JLS	8270C	6832
Benzo(a)pyrene	< 0.200	U	ug/l	0.200	1	4/ 3/01	0:25	JLS	8270C	6832
Benzo(b)fluoranthene	< 0.200	U	ug/l	0.200	1	4/ 3/01	0:25	JLS	8270C	6832
Benzo(k)fluoranthene	< 0.500	U	ug/l	0.500	1	4/ 3/01	0:25	JLS	8270C	6832
Chrysene	< 2.00	U	ug/l	2.00	1	4/ 3/01	0:25	JLS	8270C	6832
Dibenzo(a,h)anthracene	< 0.200	U	ug/l	0.200	1	4/ 3/01	0:25	JLS	8270C	6832
Indeno(1,2,3-cd)pyrene	< 0.200	U	ug/l	0.200	1	4/ 3/01	0:25	JLS	8270C	6832
Acenaphthylene	< 5.00	U	ug/l	5.00	1	4/ 3/01	0:25	JLS	8270C	6832
Benzo(g,h,i)perylene	< 2.00	U	ug/l	2.00	1	4/ 3/01	0:25	JLS	8270C	6832
Phenanthrene	< 1.00	U	ug/l	1.00	1	4/ 3/01	0:25	JLS	8270C	6832
1-Methylnaphthalene	81.8		ug/l	5.00	10	4/ 3/01	0:25	JLS	8270C	6832
2-Methylnaphthalene	159.		ug/L	5.00	10	4/ 3/01	0:25	JLS	8270C	6832
VOLATILE ORGANICS										
Benzene	4800		ug/l	1.00	1	4/ 2/01	11:32	CTH	8260B	6786
1,2-Dibromoethane (EDB)	< 1.00	U	ug/l	1.00	1	4/ 2/01	11:32	CTH	8260B	6786
Ethylbenzene	3430		ug/l	1.00	1	4/ 2/01	11:32	CTH	8260B	6786
Naphthalene	578.		ug/l	5.00	1	4/ 2/01	11:32	CTH	8260B	6786
Toluene	7300		ug/l	1.00	1	4/ 2/01	11:32	CTH	8260B	6786
Xylenes	9800		ug/l	1.00	1	4/ 2/01	11:32	CTH	8260B	6786
Methyl-t-butyl ether	14000		ug/l	1.00	1	4/ 2/01	11:32	CTH	8260B	6786
METALS										
Lead, Total	0.0781		mg/l	0.0030	1	4/ 2/01	17:01	RQ	7421	6743

Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
-----	-----	-----	-----	-----	-----

April 4, 2001

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CLIENT: SEI ENVIRONMENTAL, INC.
 Order No.: 11866
 Lab No.: 01-F8227
 Sample ID: MW-1

LABORATORY REPORT CONTINUED

 Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
BNA's	1000 ml	1.0 ml	3/31/01	DS	3510C

Surrogate	% Recovery	Target Range
VDA: 1,2-Dichloroethane-d4	17 #	82.0 - 130
VDA: Toluene-d8	71 #	84.0 - 119
VDA: 4-Bromofluorobenzene	101	84.0 - 121
VDA: Dibromofluoromethane	117	82.0 - 136
8270C: Nitrobenzene-d5	27 #	35.0 - 114
8270C: 2-Fluorobiphenyl	39 #	43.0 - 116
8270C: Terphenyl-d14	32	16.0 - 122

April 4, 2001

Page 4

CLIENT: SEI ENVIRONMENTAL, INC.
 3021 McNAUGHTON DR.
 SUITE 9
 COLUMBIA, SC 29223

Order Number: 11866
 Project: AMOCO HWY 11
 Sample ID: MW-2
 Lab Number: 01-P8228
 Date Collected: 03/30/01
 Time Collected: 10:25
 Date Received: 03/31/01

ATTN: BOB BOLTON

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	< 5.00	U	ug/l	5.00	1	4/ 2/01	23:46	JLS	8270C	6832
Acenaphthene	< 1.00	U	ug/l	1.00	1	4/ 2/01	23:46	JLS	8270C	6832
Anthracene	< 1.00	U	ug/l	1.00	1	4/ 2/01	23:46	JLS	8270C	6832
Fluoranthene	< 1.00	U	ug/l	1.00	1	4/ 2/01	23:46	JLS	8270C	6832
Fluorene	0.250	U	ug/l	1.00	1	4/ 2/01	23:46	JLS	8270C	6832
Pyrene	< 5.00	U	ug/l	5.00	1	4/ 2/01	23:46	JLS	8270C	6832
Benzo(a)anthracene	< 0.200	U	ug/l	0.200	1	4/ 2/01	23:46	JLS	8270C	6832
Benzo(a)pyrene	< 0.200	U	ug/l	0.200	1	4/ 2/01	23:46	JLS	8270C	6832
Benzo(b)fluoranthene	< 0.200	U	ug/l	0.200	1	4/ 2/01	23:46	JLS	8270C	6832
Benzo(k)fluoranthene	< 0.500	U	ug/l	0.500	1	4/ 2/01	23:46	JLS	8270C	6832
Chrysene	< 2.00	U	ug/l	2.00	1	4/ 2/01	23:46	JLS	8270C	6832
Dibenzo(a,h)anthracene	< 0.200	U	ug/l	0.200	1	4/ 2/01	23:46	JLS	8270C	6832
Indeno(1,2,3-cd)pyrene	< 0.200	U	ug/l	0.200	1	4/ 2/01	23:46	JLS	8270C	6832
Acenaphthylene	< 5.00	U	ug/l	5.00	1	4/ 2/01	23:46	JLS	8270C	6832
Benzo(g,h,i)perylene	< 2.00	U	ug/l	2.00	1	4/ 2/01	23:46	JLS	8270C	6832
Phenanthrene	1.49		ug/l	1.00	1	4/ 2/01	23:46	JLS	8270C	6832
1-Methylnaphthalene	< 5.00	U	ug/l	5.00	1	4/ 2/01	23:46	JLS	8270C	6832
2-Methylnaphthalene	< 5.00	U	ug/l	5.00	1	4/ 2/01	23:46	JLS	8270C	6832
VOLATILE ORGANICS										
Benzene	15.1		ug/l	1.00	1	4/ 2/01	11:57	CTH	8260B	6786
1,2-Dibromoethane (EDB)	< 1.00	U	ug/l	1.00	1	4/ 2/01	11:57	CTH	8260B	6786
Ethylbenzene	9.61		ug/l	1.00	1	4/ 2/01	11:57	CTH	8260B	6786
Naphthalene	15.6		ug/l	5.00	1	4/ 2/01	11:57	CTH	8260B	6786
Toluene	61.7		ug/l	1.00	1	4/ 2/01	11:57	CTH	8260B	6786
Xylenes	52.0		ug/l	1.00	1	4/ 2/01	11:57	CTH	8260B	6786
Methyl-t-butyl ether	45.2		ug/l	1.00	1	4/ 2/01	11:57	CTH	8260B	6786
METALS										
Lead, Total	0.0117		mg/l	0.0030	1	4/ 2/01	17:04	RQ	7421	6743

April 4, 2001

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CLIENT: SEI ENVIRONMENTAL, INC.
Order No.: 11866
Lab No.: 01-F8228
Sample ID: MW-2

LABORATORY REPORT CONTINUED

Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
BNA's	1000 ml	1.0 ml	3/31/01	DS	3510C

Surrogate	% Recovery	Target Range
VOA: 1,2-Dichloroethane-d4	124	82.0 - 130
VOA: Toluene-d8	103	84.0 - 119
VOA: 4-Bromofluorobenzene	101	84.0 - 121
VOA: Dibromofluoromethane	108	82.0 - 136
8270C: Nitrobenzene-d5	51	35.0 - 114
8270C: 2-Fluorobiphenyl	49	43.0 - 116
8270C: Terphenyl-d14	57	16.0 - 122

April 4, 2001

Page 6

CLIENT: SEI ENVIRONMENTAL, INC.
Order No.: 11866
Project: AMOCO HWY 11

Qualifier Definitions:

- B = results based upon colony counts outside the acceptable range
- I = the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- J1 = surrogate recovery limits have been exceeded
- J3 = the reported value failed to meet the established quality control criteria for either precision and/or accuracy
- J4 = the sample matrix interfered with the ability to make an accurate determination
- J5 = the data is questionable because of improper lab or field protocols
- K = off-scale low, actual value is less than the value given
- L = off-scale high, actual value is known to be greater than the value given
- Q = sample held beyond acceptable holding time
- U = the compound was analyzed for but not detected
- V = the analyte was detected in both the sample and the associated method blank
- Z = too many colonies present (TNTC)

*TA = sampled by TestAmerica, Inc. Field Services

the # indicates reported value is outside method defined and/or charted laboratory control limit



Environmental, Inc.

APPENDIX D

Tier II Assessment Plan



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240
Fax (803) 896-6245

MEMORANDUM

DATE: December 2, 2002

TO: Ms. Mary Peyton Davis, Bureau of Air Quality

FROM: Konstantine T. Akhvlediani, Underground Storage Tank Program

SUBJECT: Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439
Air Permit Request received December 2, 2002
Oconee County

Attached for your review and approval is the BAQ Modeling/Air Toxic Questionnaire submitted with the Corrective Action Plan for the above referenced site submitted by SEI Environmental, Inc.

Questions may be referred to my attention at (803) 896-6647.

39-Teek

SCDHEC/UST/00/12/02/02

RECEIVED

DEC 03 2002

Bureau of Air Quality

CORRECTIVE ACTION PLAN
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
Oconee County

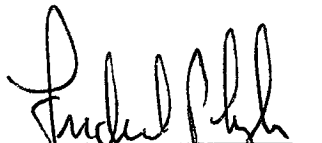
SCDHEC Site # 03439

PREPARED FOR:

South Carolina Department of Health and Environmental Control
UST Management Section
2600 Bull Street
Columbia, S.C. 29201

PREPARED BY:

SEI Environmental, Inc.
3021 McNaughton Drive #9
Columbia, S.C. 29223



Frederick P. Lyke,
Professional Geologist #1055

November 20, 2002

TABLE OF CONTENTS

- 1.0 INTRODUCTION
- 2.0 SITE CHARACTERIZATION
- 3.0 GROUNDWATER QUALITY
- 4.0 GROUNDWATER REMEDIATION
 - 4.1 Free Product Recovery System Design
 - 4.2 Free Product Recovery System Operation and Maintenance
 - 4.3 Insitu bioremediation theory
 - 4.4 Insitu bioremediation evaluation and design
 - 4.5 Proposed Corrective Action Plan
- 5.0 CORRECTIVE ACTION MONITORING
- 6.0 ABANDONMENT
- 7.0 REFERENCES

TABLES

Table 1 Groundwater analytical results from May 7, 2002

FIGURES

Figure 1 Site Location Map
Figure 2 Site Map
Figure 3 Proposed Injection Well Locations
Figure 4 Injection Well Schematic

APPENDICES

A – Free Product Recovery System Specifications
B – BAQC Modeling Information
C – UIC Type V.A. I Permit Application
D – Remediation System Design for Dissolved CoC

1.0 Introduction

The South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management (BUST) received bids to conduct remedial action at the Highway 11 Grocery facility located at 13527 SC Highway 11, Salem, South Carolina (see Figure 1 for site location). SEI Environmental, Inc. (SEI) was awarded a purchase order to conduct the remediation on November 6, 2002. Free phase petroleum product has been detected in one monitoring wells onsite (MW-1 and MW-8). The release was reported on November 28, 2000. The site is supplied potable water by on onsite drinking water well.

2.0 Site Characterization

For a complete review of the site geologic/hydrogeologic characterization, a review of the complete project file at SCDHEC/BUST is recommended. The site is within the Inner Piedmont Belt of the Piedmont Physiographic Province. Native rocks are generally medium to high grade metamorphic rocks such as granitic gneiss, mica schist, and amphibolite.

Visual analysis of subsurface soils collected from field screening activities and monitor well installations conducted as part of the assessment indicated the soil types of medium to fine sand and medium grained saprolite. The maximum depth of the current investigation was approximately 60 feet bls (below land surface).

Ground water generally flows to the east, consistent with the topography of the area. Saturated conditions are encountered at approximately 20 - 25 feet below grade.

3.0 Ground Water Quality

A Rapid Assessment Plan (RAP) was submitted by SEI Environmental in June, 2002. A baseline groundwater sampling event was conducted by SCDHEC on May 7, 2002. A table summerizing the analytical results of the ground water samples collected during that assessment is included as Table 1. Free product was measured in wells MW-1 and MW-8. Dissolved constituents above calculated SSTL's were found in wells MW-1, MW-7, MW-8 and MW-14. Additional ground water quality data can be found in the project file at SCDHEC/BUST.

4.0 GROUND WATER REMEDIATION

Ground water remediation will be accomplished by removing the existing free-phase product using a dual phase extraction system referred to as MAV. The dissolved-phase chemicals of concern will be treated using a patented "EDOT" oxygen injection system and a patented hydrogen peroxide injection system ("Per-Petual") to enhance natural attenuation processes in situ. Detailed descriptions of the two techniques are presented in the sections that follow.

4.1 Free Product Recovery System Design

An MAV free product recovery system is proposed to remove the free phase petroleum hydrocarbons present on the groundwater table at the Highway 11 Grocery site. The proposed system will include dual phase recovery events utilizing up to 45 points as recovery wells. These points are to be installed as part of the "EDOT" System discussed in Section 4.4. Figure 3 provides the location of the product recovery points.

4.2 Free Product Removal System Operation and Monitoring

The proposed free product recovery events will occur until the desired endpoints are achieved. Presently, the target endpoint is ≤ 0.01 feet of free product detected in monitoring well MW-1 and MW-8 onsite. This endpoint is based on the designed removal efficiency of the MAV system to be installed.

Monitoring of the free product recovery system will be conducted monthly for the first twelve months of system operation. Free product thickness will be gauged in MW-1 and MW-8 during these visits in order to verify system operation. Also, any necessary system maintenance will be conducted during these visits. It is anticipated that after this twelve-month period the desired endpoint will be achieved. Monthly monitoring of the site will continue until compliance with the target endpoint is confirmed by SCDHEC.

4.3 In Situ Bioremediation Theory

In situ bioremediation refers to the use of natural microbiological processes occurring in the subsurface environment to breakdown complex organic compounds into simpler, non-toxic compounds without the removal of aquifer material. Contaminant degradation takes place by microorganisms when the contaminants either serve as a primary energy source (electron donor), or are fortuitously metabolized when other primary substrates are available to the microorganisms (co-metabolism). In order for the electron donors to be utilized by the indigenous microbial community, compounds must also be available which allow energy transfer by the microorganisms to take place. Oxygen is required for micro-organisms to utilize the compounds for energy transfer.

A hydrogen peroxide injection system (trade name "Per-Petual", U.S. patent application serial number 60/357,550) continuously injects a mild solution of peroxide into numerous injection points arranged across the groundwater contamination plume in a grid-like fashion. It is our intent to use the MAV points as injection points. Decontamination occurs through chemical oxidation and through enhanced bioremediation due to elevated dissolved oxygen levels. Chemical oxidation (responsible for roughly 25% of total decontamination) is often augmented by the presence of naturally occurring minerals which act as catalysts (Fenton's Reaction). Bioremediation (responsible for roughly 75% of total decontamination) is enhanced by elevating dissolved oxygen levels from typically 0-5 ppm in the presence of contamination to 100+ ppm and thereby providing naturally occurring microbes with a sustained oxygen level required for microbial activity.

4.4 In Situ Bioremediation Evaluation and Design

Remediation System design and specifications details are presented in Appendix D. The oxygen and hydrogen peroxide injection system will include approximately 45 injection points. This bore-hole layout was designed to get injection points spaced in a grid like fashion over as much

of the contamination plume as possible. Each injection point will simply be the end of a section of ¼ inch polypropylene tubing that is scored with slits/holes along the last 12 inches in order to ensure proper oxygen diffusion. The 45 lengths of PPT tubing will exit the bore-holes along the rear of the system building and then will run to the enclosure in shallow (1 foot) trenches.

The 45 injection points will be connected to PPT tubing and then connected to individual conduits on the patented control panels. These control panels contain a flow meter and control valve for each injection point, as well as a regulator that controls the incoming flow/pressure of oxygen from the liquid oxygen cylinder to the control panel. Given the number of injection points in this system, the system will include two control panels and two oxygen cylinders. Each control panel is connected via a pressure hose to a liquid oxygen cylinder. The control panels and oxygen cylinders are store within a 6' x 8' locked wooden enclosure.

After considering the advantages, disadvantages, and feasibility of the available options, The patented "EDOT" oxygen injection system is the most effective and least costly option for treatment of the contaminated soil and groundwater at the site. The primary reasons for selecting this option is the ability of this type of system to enhance bioremediation, the ability of injected oxygen gas to diffuse effectively in the sandy silt and clay soil present at this site, the ability of this system to reach parts of the contamination plume under dispensers and the store that could not be reached with other systems and also eliminating costly and time-consuming need for concrete and asphalt cutting, the ability of this system to attack the entire plume by installing injection points in a grid-like fashion across the plume, the ability of this system to be installed quickly and inexpensively relative to other options, and the low maintenance and operating costs associated with this system.

4.5 PROPOSED CORRECTIVE ACTION PLAN

Based on the findings of previous investigations, soil and groundwater at the site have been impacted by a release of petroleum hydrocarbons from the UST system. The continuous injection of oxygen gas through the patented "EDOT" system is recommended to remediate the impacted soil and groundwater at the site.

A plan view of the proposed EDOT system is presented in Figure 3 and in Appendix D. Forty five bore-holes, each spaced 10-15 feet apart are proposed to cover the area of adsorbed phase contaminants.

Construction drawings for the oxygen injection system are included as Appendix D. Following completion of all construction activities, as-built drawings will be generated and forwarded as an addition to this CAP.

The remediation system will be housed and secured within a wooden enclosure in order to prevent unwarranted tampering. The structure shall meet all necessary requirements by the South Carolina Building Code. The injection point tubing sections will be buried below grade from the enclosure to the horizontal bore-hole entrance point. Both the entrance point and exit point of all horizontal bore holes will be sealed with bentonite and neat Portland cement layers.

Inside the building, the control panel will have clearly marked and labeled control valves, regulators, and flow meters. A local gas supply company will be issued a key to the enclosure for the purpose of swapping out used liquid oxygen cylinders on a monthly basis.

Monthly site visits will be conducted to inspect and adjust the oxygen injection system, and to measure soil gas and dissolve oxygen concentrations. One copy of the system operation and maintenance manual will be provided and located permanently at the site for future reference.

5.0 CORRECTIVE ACTION MONITORING

Prior to system start up a groundwater sample will be collected from each of the existing monitoring wells. Prior to sample collection the water level in each well will be measured. The volume of water standing in the well will be calculated. A volume equal to or greater than three times the calculated volume will be purged from the well before a sample is collected. Field measurements of pH, temperature, and specific conductance will be made and recorded after each single volume purge. Purge water will be containerized and temporarily stored onsite in

labeled containers for subsequent off site disposal through an approved facility. Samples will be placed in laboratory supplied containers, maintained at 4 degrees C, in a cooler and shipped to a SC certified laboratory for analysis. The groundwater samples will be analyzed for the BTEX components, PAHs (including naphthalene), and MTBE. Analytical methodologies shall be as specified in the bid document, or their equivalent. Proper field notes and chain of custody documentation will be maintained.

Sampling and reporting will be conducted on a quarterly basis. The quarterly corrective action monitoring report will contain those elements described in the bid document.

6.0 VERIFICATION AND ABANDONMENT

Air delivery equipment and the structure housing the equipment will be dismantled and removed from the site. The in situ bioreactors will be abandoned in place by disconnecting the air and nutrient delivery lines. A bentonite slurry will be pumped through air and nutrient delivery lines, to fill the reactors, and the protective well vaults will be filled with concrete to match the existing grade. Air delivery lines will be capped and abandoned in place. Abandonment in place of the system as much as possible will minimize disruption of the owner/operator's normal operations. At the completion of the abandonment operations, an abandonment report will be prepared documenting all abandonment actions

7.0 REFERENCES

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North Carolina Department of Environment and Natural Resources, Division of Water Quality, Groundwater Section, "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater, Volume II: Petroleum Underground Storage Tanks," January 2, 1998.

Portier, Ph.D., Ralph J., Louisiana State University, Aquatic/Industrial Toxicology Laboratory, Institute for Environmental Studies, 1997. Personal communication.

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USEPA, 1995, *Bioventing Principles and Practice, Volume I and II*, EPA/540/R-95/53a, Office of Research and Development, Washington, DC.

Wiedemeier, Todd H., Matthew A. Swanson, John T. Wilson, Donald H. Kampbell, Ross N. Miller, and Jerry E. Hansen, *Patterns of Intrinsic Bioremediation at Two U.S. Air Force Bases*, in Third International In Situ and On-Site Bioreclamation Symposium, Vol 3(1), Intrinsic Bioremediation, Battelle Press, Columbus, Ohio, 1995.

Wiedemeier, Todd H., John T. Wilson, Donald H. Kampbell, and Ross N. Miller, *Proposed Air Force Guidelines for Successfully Supporting the Intrinsic Remediation (Natural Attenuation)*

Option at Fuel Hydrocarbon Contaminated Sites, from National Ground Water Association Proceedings of The Eighth national Outdoor Action Conference and Exposition, Minneapolis, Minnesota, May 23-25.

Table I (reprinted from CA Bid Document).

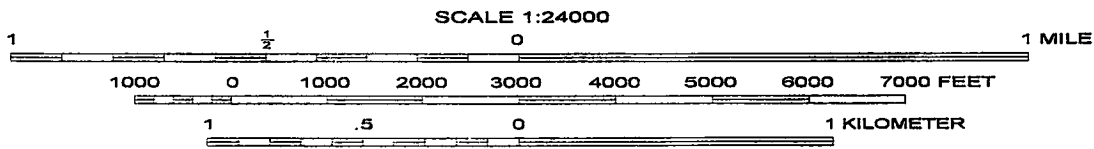
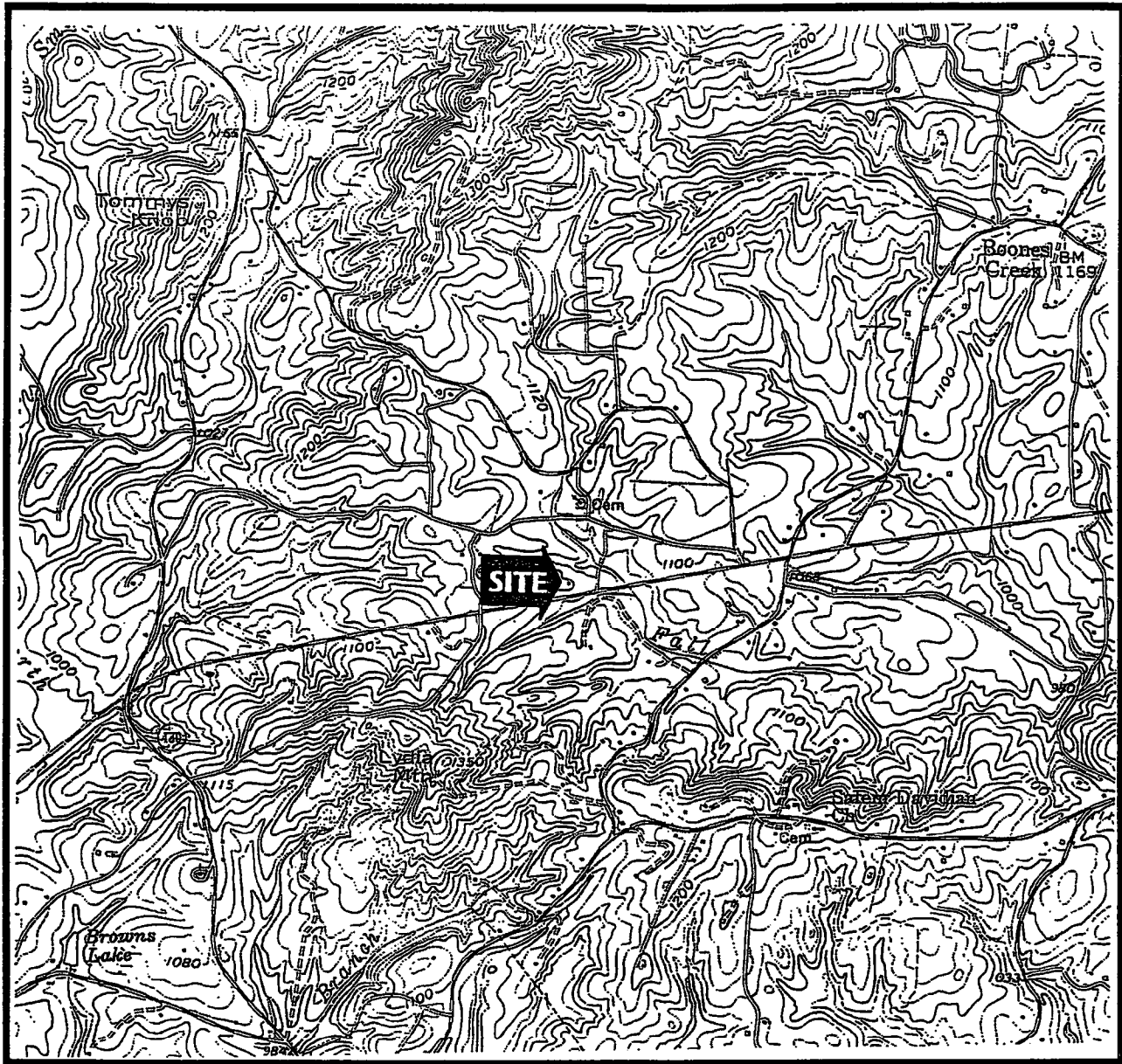
CoC concentration in parts per billion ($\mu\text{g/l}$) based on May 7, 2002 sampling: (CoC may increase or decrease in the future)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	Total Conc.
MW-1**	226,000	301,000	280,000	278,000	5,110,000	2,000	6,197,000
MW-2	13	8	1	5	5	5	37
MW-3	1*	1*	1*	1*	5*	5*	14
MW-4	1,500	5,320	620	3,360	810	500	12,110
MW-5	1*	1*	1*	1*	5*	5*	14
MW-6	1,780	4,950	490	2,880	6,350	500	42,871
MW-7	34	20	1*	8	7	5*	75
MW-8***	226,000	301,000	280,000	278,000	5,110,000	2,000	6,197,000
MW-10	115	185	68	328	86	9	791
MW-11	1*	1*	1*	1*	5*	5*	14
MW-14	3,780	13,800	27,000	14,700	7,010	500	66,790
DMW-1	215	430	50	50	1,780	250	2,775
DMW-2	1*	1*	1*	1*	5*	5*	14
DMW-4	1*	1*	1*	1*	5*	5*	14
Initial Conc.***	459,442	626,718	588,235	577,336	10,236,073	5,794	12,493,598
SSTL Conc.	3,881	57,303	33,705	339,605	10,645	2,452	447,591
Initial Conc. Above SSTL	455,561	569,415	554,530	237,731	10,225,428	3,342	12,046,007

*Laboratory analysis is below detection limits; therefore, initial concentration is set equal to the detection limit.

** Well contains free phase petroleum, concentrations set based on Henry's Law solubility limits.

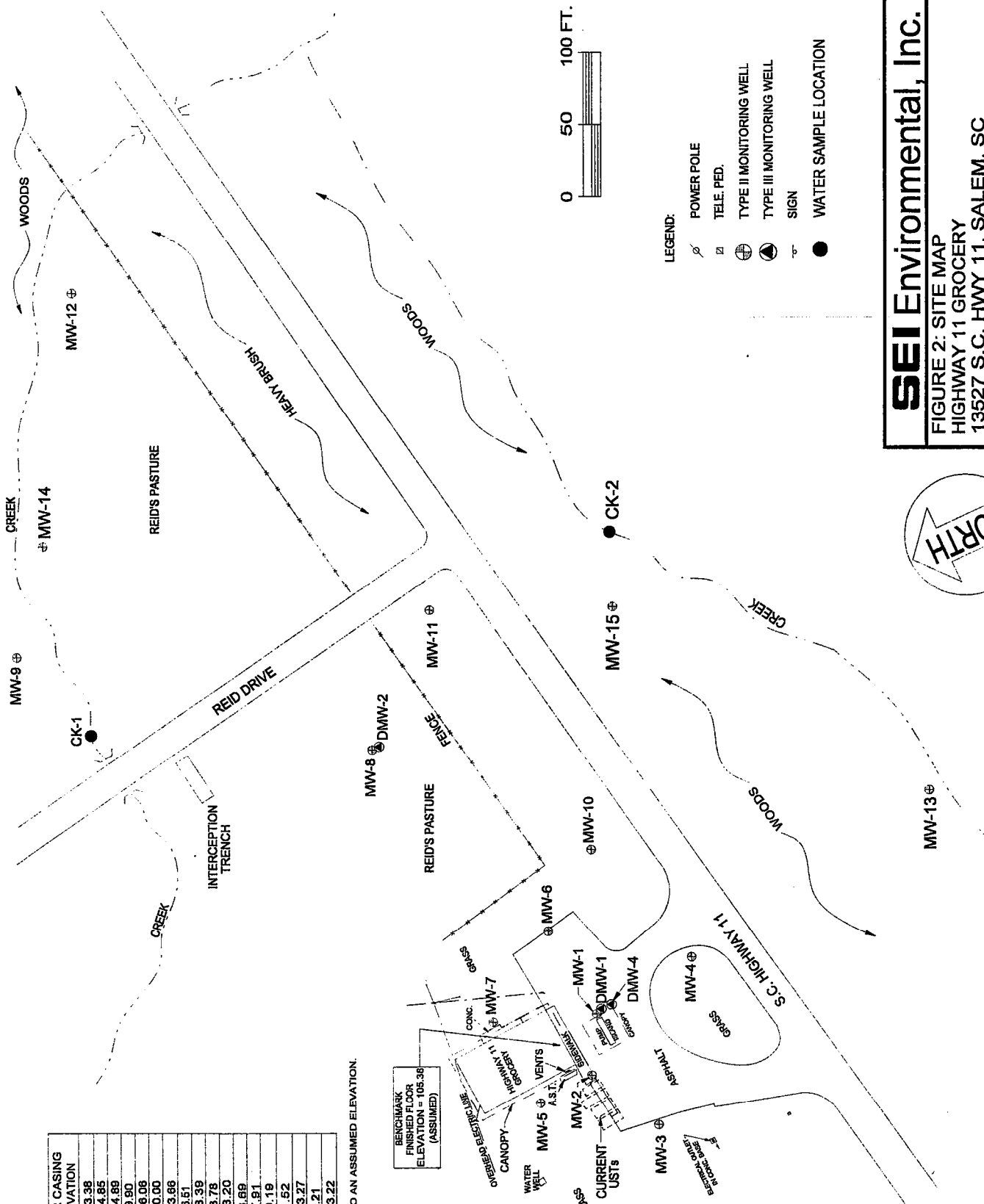
*** CoC concentration may change due to seasonal fluctuations in the groundwater.



SEI Environmental, Inc.	
FIGURE 1: SITE LOCATION MAP HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
WO #302-169 DWG #	DATE: 11/20/02 DRAWN BY: JCJ

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.08
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	56.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.81
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

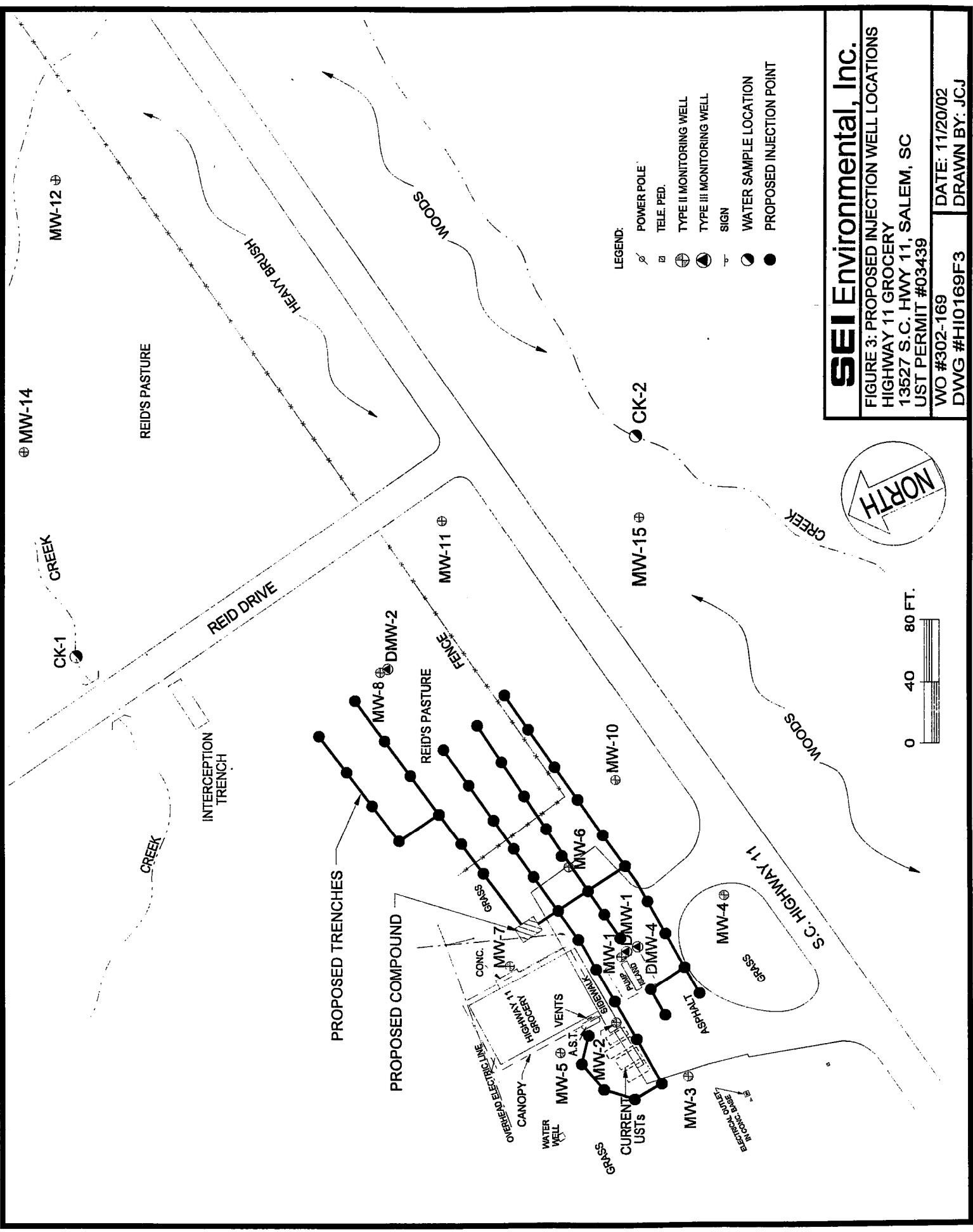
NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc.

FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-169
 DWG #HI0388F1

DATE: 5/31/02
 DRAWN BY: JCJ

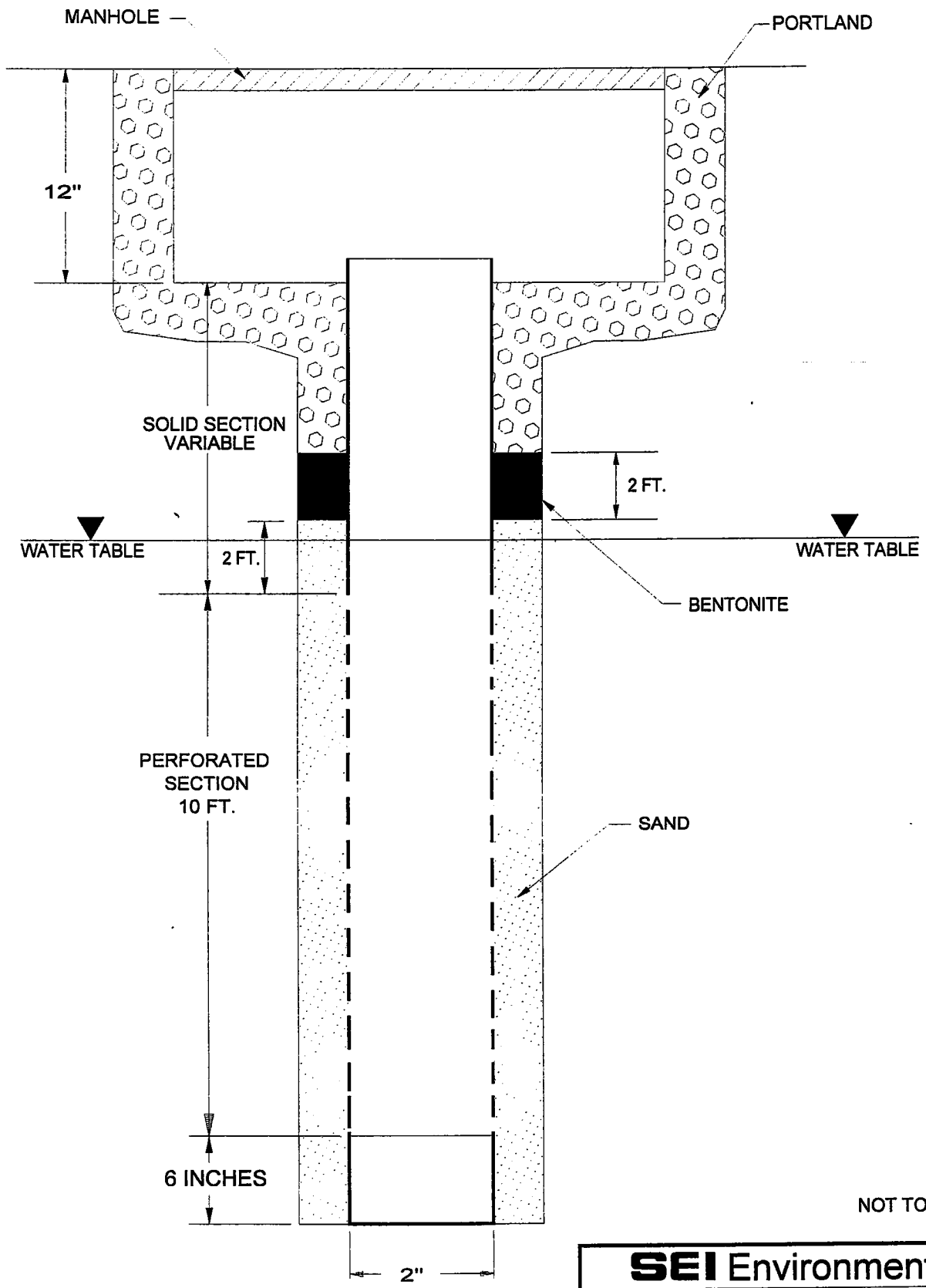


SEI Environmental, Inc.

FIGURE 3: PROPOSED INJECTION WELL LOCATIONS
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #302-169 DATE: 11/20/02
 DWG #HI0169F3 DRAWN BY: JCJ



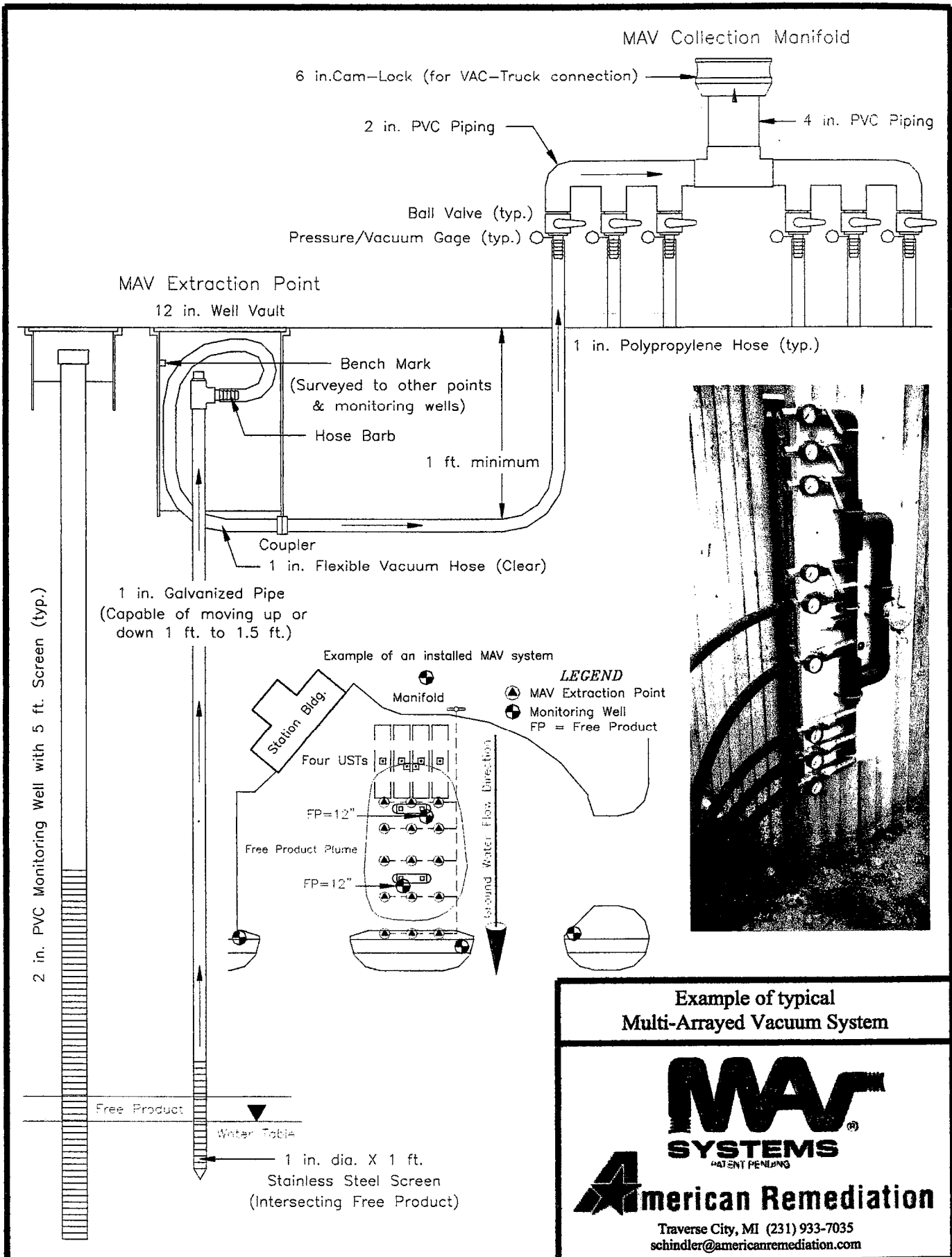


NOT TO SCALE

SEI Environmental, Inc.	
FIGURE 4: INJECTION WELL SCHEMATIC HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
WO #302-169 DWG #HI0169F4	DATE: 11/20/02 DRAWN BY: JCJ

APPENDIX A

FREE PRODUCT REMOVAL SYSTEM SPECIFICATIONS



APPENDIX B

BAQC PERMIT APPLICATION

South Carolina DHEC

Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Michael D. Jarrett

Board: John B. Pata, MD, Chairman
William E. Applegate, III, Vice Chairman
John H. Burriss, Secretary

Toney Graham, Jr., MD
Richard E. Jabbour, DDS
Henry S. Jordan, MD
Currie B. Spivey, Jr.

Promoting Health. Protecting the Environment

BAQC UST MODELING INFORMATION

PLEASE FILL OUT COMPLETELY

COMPANY NAME: Hwy 11 Grocery

CLEANUP LOCATION: 13527 SC Hwy 11, Salem, SC PCAS: _____

TYPE OF OPERATION (i.e. AIR STRIPPER): Dual Phase Recovery

CONTACT: Fred Lyke - SEI Environmental Inc.

PHONE NUMBER: 803 788 2535

SITE MAPS

Please include a scaled plot plan of the site location that clearly shows distances from the stack to the property boundaries. All buildings and/or structures within a radius of 5 stack heights (measured from the stack/vent) shall be incorporated on this plot plan and information on each building and/or structure's height, width, and length shall also be included.

STACK INFORMATION

HEIGHT ABOVE GROUND 10 FEET; DIAMETER 333 FEET

TEMPERATURE 110 F; VELOCITY 10 FEET/SECOND

AIR TOXIC INFORMATION

AIR TOXIC EMITTED (i.e. BENZENE)	CHEMICAL ABSTRACT SERVICE (CAS) NUMBER	EMISSION RATE LB/HR
A) <u>Benzene</u>	<u>71432</u>	<u>.08</u>
B) <u>Toluene</u>	<u>108883</u>	<u>.007</u>
C) <u>Ethylbenzene</u>	<u>100414</u>	<u>.024</u>
D) <u>Xylene</u>	<u>1330207</u>	<u>1.008</u>
E) _____	_____	_____

Please submit the completed form with maps to the appropriate SCDHEC project manager at the Ground-Water Protection Division. (BAQC-MIF)

Groundwater MW-1 concentrations, Maximum Dissolved concentration in water from E.K. Nyer, Ground Treatment Technology 2nd ed, 1992, Van Nostrand Reinhold, NY, p. 49, Tab

Benzene 1.750 mg/l
 Ethylbenzene 1.52 mg/l
 Toluene 535 mg/l
 Xylene 1.75 mg/l

Flow Rate:

$$Q_{std} = \left(\frac{60 \text{ sec}}{1 \text{ min}}\right) (1 - B_{us}) (V) (A) \left[\frac{528}{460 + T(^{\circ}F)}\right]$$

$$= 60 (1 - .03) (.10) (.0871) \left[\frac{528}{580}\right]$$

$$= 46.45 \text{ ft}^3/\text{min}$$

COC emissions

Benzene: $(.00175 \frac{\text{kg}}{\text{l}}) \left(\frac{46.45 \text{ ft}^3}{\text{min}}\right) \left(\frac{60 \text{ min}}{1 \text{ hr}}\right) \left(\frac{3.53 \times 10^{-2} \text{ l}}{\text{ft}^3}\right) \left(\frac{1 \text{ lb}}{2.205 \text{ kg}}\right) = 1.43 \text{ lb/hr}$

Toluene: $(.000535 \frac{\text{kg}}{\text{l}}) 44.34 = .024 \text{ lb/hr}$

Ethylbenzene: $(.000152 \frac{\text{kg}}{\text{l}}) 44.34 = .007 \text{ lb/hr}$

Xylene: $(.000175 \frac{\text{kg}}{\text{l}}) 44.34 = .008 \text{ lb/hr}$


Total estimated COC in lbs per 12 hr event = 1.43 lbs/event

APPENDIX C

UNDERGROUND INJECTION CONTROL PERMIT APPLICATION

CLASS V. A. TYPE I

Attachments A – F only. Injection of air and hydrogen peroxide are proposed. No injection of fluid whose chemical constituents exceeds any drinking water standard or may otherwise adversely affect the health of persons is proposed.

Form 1 UIC	 <p align="center">Underground Injection Control Permit Application Ground-Water Protection Division (Collected under the Authority of Title 48 Chapter 1 of the 1976 South Carolina Code of Laws)</p>	I. EPA ID NUMBER		
		U		T/A	C

Read attached instructions before starting.
For Official Use Only

Application Approved month day year	Date Received month day year	Permit/Well Number

Comments

II. Facility Name and Address	III. Owner/Operator and Address
Facility Name <i>Hwy 11 Grocery</i>	Owner/Operator Name <i>Steve Smith</i>
Street Address <i>13527 SC Hwy 11</i>	Street Address <i>13527 SC Hwy 11</i>
City State Zip Code <i>Salem SC</i>	City State Zip Code <i>Salem SC</i>

IV. Ownership Status (Mark "x")	V. SIC Codes
<input type="checkbox"/> A. Federal <input type="checkbox"/> B. State <input checked="" type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain)	

VI. Well Status (Mark "x")	Date Started month day year	<input type="checkbox"/> B. Modification/Conversion	<input checked="" type="checkbox"/> C. Proposed
<input type="checkbox"/> A. Operating			

VII. Type of Permit Requested - Class and Type of Well (see reverse)			
A. Class(es) enter code(s) <i>VA</i>	B. Type(s) enter code(s) <i>I</i>	C. If class is "other" or type is code "x", explain	D. Number of Wells per type <i>45</i>

VIII. Location of Wells or Approximate Center of field or Project							
C	A. Latitude			B. Longitude			
I	Deg	Min	Sec	Deg	Min	Sec	
	<i>34</i>	<i>54</i>	<i>31</i>	<i>83</i>	<i>58</i>	<i>12</i>	

IX. Attachments
Complete the following questions on a separate sheet(s) and number accordingly; see instructions for Classes II, III, and V, complete and submit on a separate sheet(s) attachments A-U as appropriate. Attach maps where required. List attachments by letter which are applicable and include with your application.

X. Certification			
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.			
A. Name and Title (Type or Print) <i>Steven M Smith</i> <i>owner</i>	B. Phone No. <i>(864) 944-0494</i>		
C. Signature <i>Steve M Smith</i>	D. Date Signed <i>11-25-02</i>		

Attachment A – Activity for Review

The permit application is in support of the remedial activities proposed for the Highway 11 Grocery site in Salem, SC (SCDHEC/BUSTM Site ID #03439). Remedial activities proposed the installation and operation of a system for remediation of dissolved phase hydrocarbons. The operation of the proposed system requires the injection of air and hydrogen peroxide as the oxygen delivery system for the aerobic degradation of the hydrocarbons.

Attachment B – Well Construction Details

Forty five (45) injection points are proposed. Attached is a typical schematic of an injection point. This bore-hole layout was designed to get injection points spaced in a grid like fashion over as much of the contamination plume as possible. Each injection point will simply be the end of a section of ¼ inch polypropylene tubing that is scored with slits/holes along the last 12 inches in order to ensure proper oxygen diffusion. The 45 lengths of PPT tubing will exit the bore-holes along the rear of the building and then will run to the enclosure in shallow (1 foot) trenches.

The 45 injection points will be connected to PPT tubing and then connected to individual conduits on the patented control panels. These control panels contain a flow meter and control valve for each injection point, as well as a regulator that controls the incoming flow/pressure of oxygen from the liquid oxygen cylinder to the control panel. Given the number of injection points in this system, the system will include two control panels and two oxygen cylinders. Each control panel is connected via a pressure hose to a liquid oxygen cylinder. The control panels and oxygen cylinders are store within a 6' x 8' locked wooden enclosure.

Attachment C – Operating Data

For each injection point:

1. An average and a maximum flow of 1.5 cubic feet per minute (CFM) (2,160 cubic feet per day) of air per injection point. No routine recovery of ground water is anticipated. No air permeability data is available.
2. Average and maximum injection pressure will be 5 pounds per square inch and 7 pounds per square inch.
3. Injection will be continuous.
4. A diluted solution of hydrogen peroxide will be in the injected fluid.
5. Based on calculations in the Corrective Action Plan estimated length of clean up will be 24 months. It is requested that the permit be valid for an initial period of three years.

Attachment D – Monitoring Program

1. At 30, 45, and 60 days after startup dissolved oxygen, pH, nitrates, and gasoline range organics will be monitored. In addition, prior to system startup a ground water sample will be collected from each of the existing monitoring wells. Prior to sample collection the water level in each well will be measured. The volume of water standing in the well will be calculated. A volume equal to or greater than three times the calculated volume will be purged from the well before a sample is collected. Field measurements of pH, temperature, and specific conductance will be made and recorded after each single volume purge. Purge water will be containerized and temporarily stored onsite in labeled containers for subsequent off site disposal through an approved facility. Samples will be placed in laboratory supplied containers, maintained at 4^o C, in a cooler and shipped to a SC certified laboratory for analysis. The ground water samples will be analyzed for the BTEX components, Naphthalene, and MTBE. Analytical methodologies shall be as specified in SCDHEC DUSTM guidance documents (or equivalent). Proper field notes and chain of custody documentation will be maintained.

Sampling and reporting will be conducted on a quarterly basis. The quarterly corrective action monitoring report will contain those elements described in bid request document.

2. No contaminant constituents will be present in the injectate.
3. No hydraulic impact on the contaminant plume is anticipated. Water level measurements will be collected and potentiometric maps at intervals specified above to confirm that the existing ground water flow direction is not affected.

Attachment E – Existing or Pending State/Federal Permits

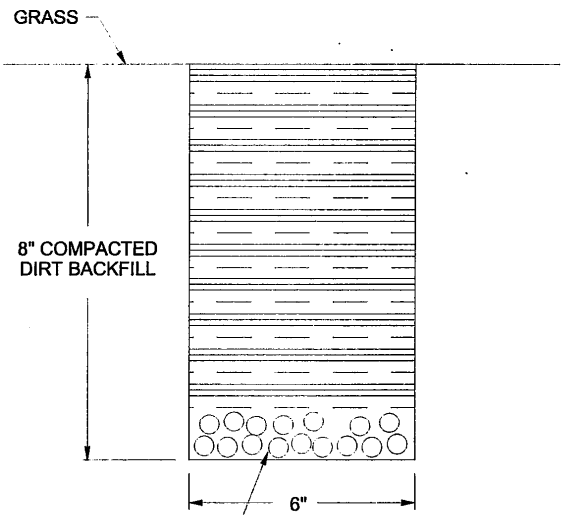
The site is identified under SCDHEC/DUST site ID number 03439. Underground storage tanks currently exist on the site. No other known permits exist.

Attachment F – Description of Business

Highway 11 Grocery is a convenience store that also sells gasoline.

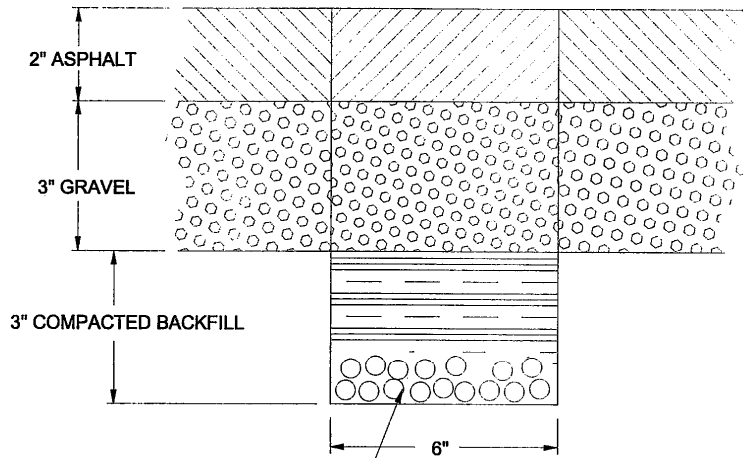
APPENDIX D

REMEDIATION SYSTEM DESIGN FOR DISSOLVED COC



(1-60) 1/4" POLYPROPYLENE TUBES

1 TRENCH SECTION (GRASS AREA)
2



(1-60) 1/4" POLYPROPYLENE TUBES

2 TRENCH SECTION (PARKING LOT)
2

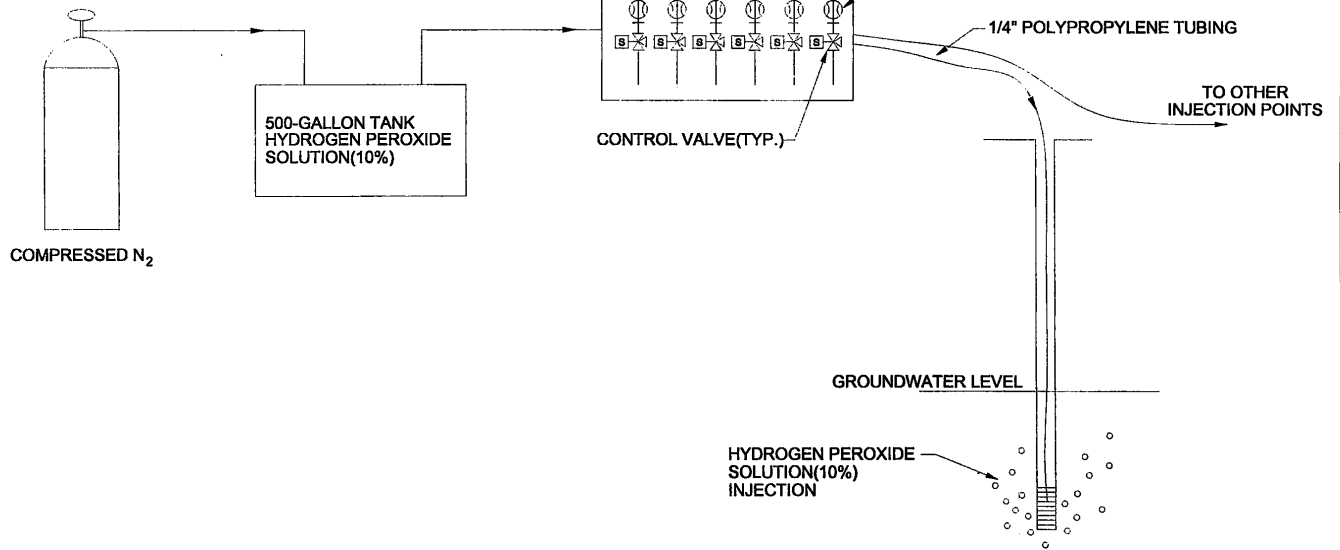
SEI Environmental, Inc.

APPENDIX D, FIGURE 1: TRENCH DETAILS
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

WO #302-169
DWG #: HI0169S1

DATE: 11/20/02
DRAWN BY: JCJ

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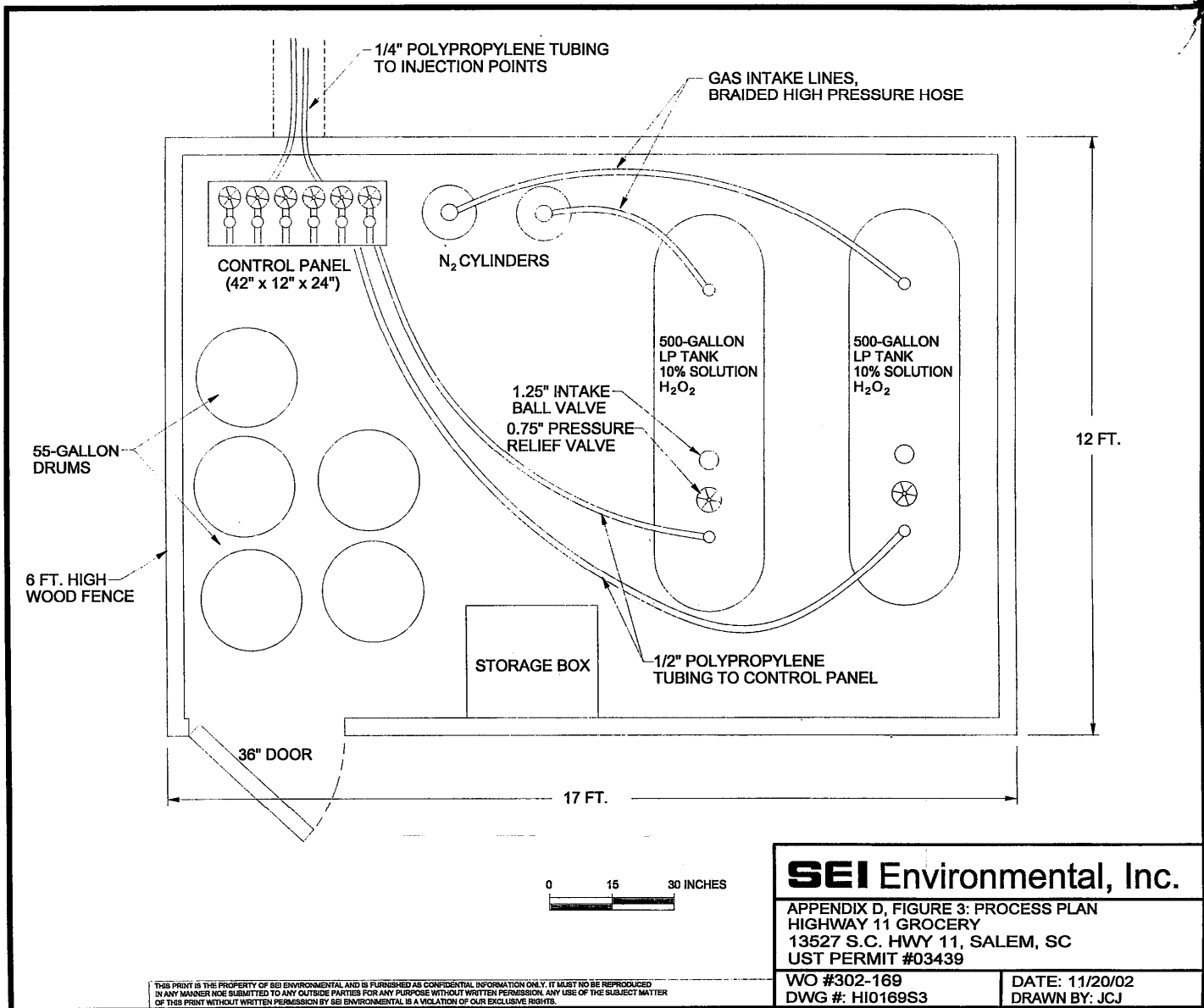
SEI Environmental, Inc.

APPENDIX D, FIGURE 2: PROCESS FLOW DIAGRAM
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

WO #302-169
 DWG #: HI0169S2

DATE: 11/20/02
 DRAWN BY: JCJ

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SEI Environmental, Inc.	
APPENDIX D, FIGURE 3: PROCESS PLAN HIGHWAY 11 GROCERY 13527 S.C. HWY 11, SALEM, SC UST PERMIT #03439	
WO #302-169 DWG #: HI0169S3	DATE: 11/20/02 DRAWN BY: JCJ

RECEIVED

DEC 03 2002

Bureau of Air Quality

SEI

Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

RECEIVED

JAN 29 2003

Underground Storage
Tank Program

January 29, 2003

Mr. Konstantine Akhvlediani, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

40-TECH

Re: Initial Sampling Event
Highway 11 Grocery, 13527 SC Highway 11, Salem, SC
UST Permit #03439; CA #17616
Oconee County

Dear Mr. Akhvlediani:

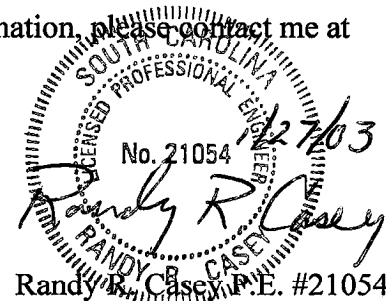
On December 16, 2002, SEI Environmental, Inc. (SEI) personnel mobilized to Highway 11 Grocery to conduct the initial groundwater sampling event as part of the Corrective Action Plan activities. The groundwater samples were not collected at Monitor Wells MW-1 and MW-8 due to approximate free product thicknesses of 0.09 feet and 0.24 feet, respectively. Groundwater sampling field measurements are presented in Appendix A, and laboratory analytical results are presented in Appendix B. A summary table of the laboratory results is attached, as well as a site map.

Should you have any questions or require additional information, please contact me at 788-2535.

Sincerely,
SEI Environmental, Inc.



Bob Bolton
Project Manager



Attachments

cc: Mr. Steve Smith

TABLE I
Groundwater Elevation Data
Highway 11 Grocery / Salem, South Carolina

Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Water Table Elevation (feet)
MW-1	12/16/02	103.38	23.84*	0.09	30	79.54
MW-2	12/16/02	104.85	25.33	0	35	79.52
MW-3	12/16/02	104.89	24.02	0	30	80.87
MW-4	12/16/02	99.90	22.42	0	35	77.48
MW-5	12/16/02	106.06	28.42	0	35	77.64
MW-6	12/16/02	100.00	20.83	0	35	79.17
MW-7	12/16/02	103.66	27.28	0	40	76.38
MW-8	12/16/02	86.51	20.39*	0.24	30	66.12
MW-9	12/16/02	58.39	2.25	0	12	56.14
MW-10	12/16/02	93.78	19.16	0	24	74.62
MW-11	12/16/02	83.20	15.53	0	23	67.67
MW-12	12/16/02	58.69	2.57	0	12	56.12
MW-13	12/16/02	77.72	6.29	0	12	71.43
MW-14	12/16/02	59.19	2.40	0	10	56.79
MW-15	12/16/02	71.52	9.71	0	12	61.81
DMW-1	12/16/02	103.27	23.93	0	45	79.34
DMW-2	12/16/02	86.21	16.77	0	75	69.44
DMW-4	12/16/02	103.22	24.31	0	60	78.91

* Adjusted depth to water = depth to water – [(LPH thickness) x 0.78]

TABLE II
Groundwater Analytical Results, dated December 16, 2002
Highway 11 Grocery / Salem, South Carolina

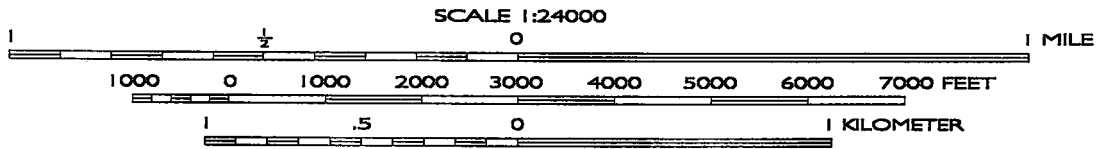
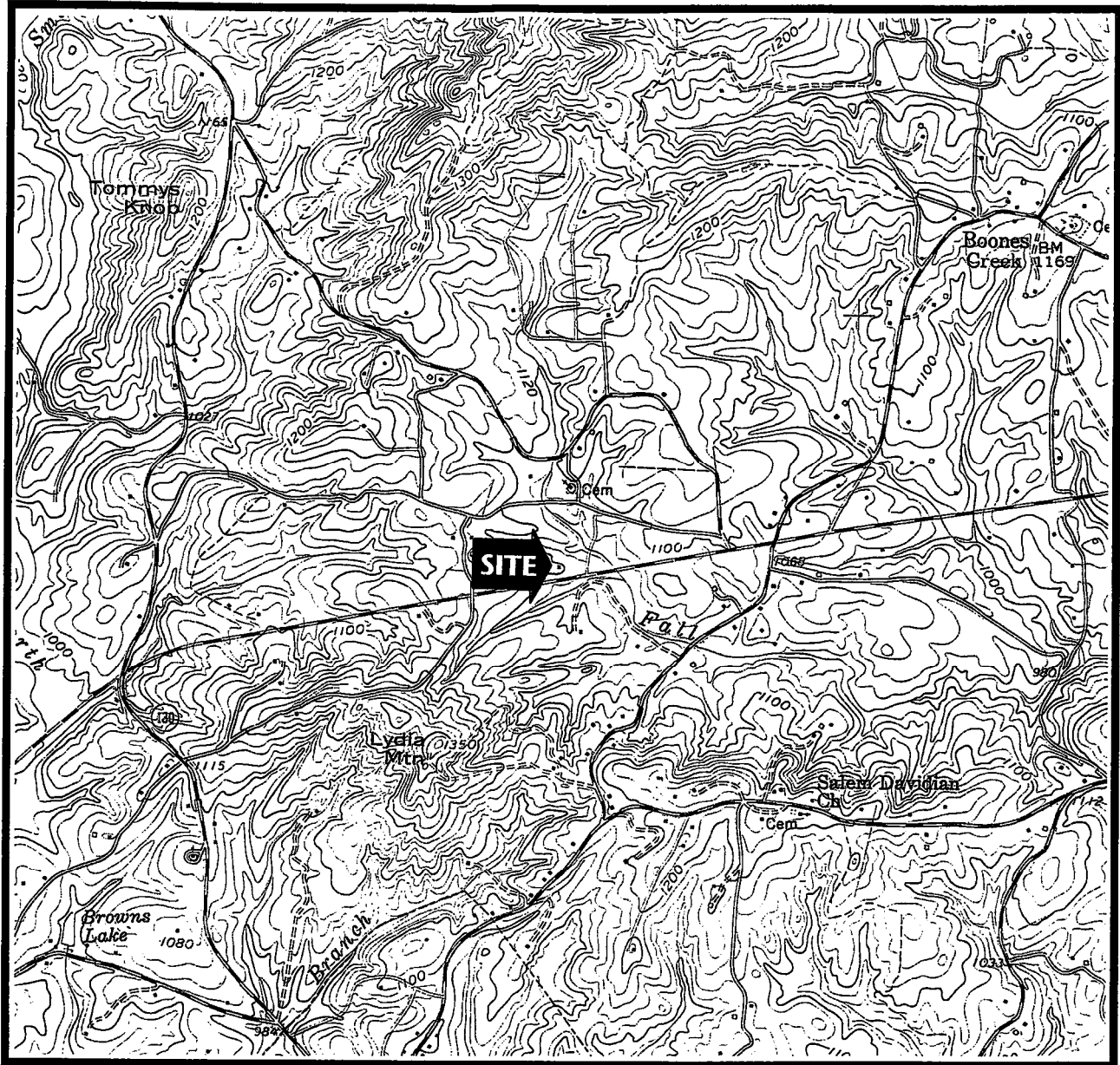
Chemical of Concern	MW-1 (µg/l)	MW-2 (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)
Free Product Thickness	0.09'	None	None	None	None	None	None	0.24'	None	None	None	None
Benzene	NS	27.1	<1.0	1600	<1.0	6900	200	NS	<1.0	1.2	<1.0	<1.0
Toluene	NS	21.0	<1.0	6420	<1.0	12000	252	NS	<1.0	4.3	<1.0	<1.0
Ethylbenzene	NS	<1.0	<1.0	1910	<1.0	1940	10.0	NS	<1.0	1.1	<1.0	<1.0
Xylenes	NS	17.5	<1.0	8480	<1.0	11000	127	NS	<1.0	4.9	<1.0	<1.0
Total BTEX	NA	<66.6	<4.0	18410	<4.0	31840	589	NA	<4.0	11.5	<4.0	<4.0
MTBE	NS	<1.0	<1.0	1510	<1.0	23100	24.6	NS	<1.0	1.4	<1.0	2.3
Naphthalene	NS	<5.00	<5.00	301	398	265	<2.50	NS	<2.50	<2.50	<2.50	<2.50
Benzo(a)anthracene	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0
Benzo(b)flouranthene	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0
Benzo(k)flouranthene	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0
Chrysene	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0
Dibenzo(a,h)anthracene	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0

NA = Not Applicable; NS = Not Sampled

TABLE II (continued)
Groundwater Analytical Results, dated December 16, 2002
Highway 11 Grocery / Salem, South Carolina

Chemical of Concern	MW-13 (µg/l)	MW-14 (µg/l)	MW-15 (µg/l)	DMW-1 (µg/l)	DMW-2 (µg/l)	DMW-4 (µg/l)	CK-1 (µg/l)	CK-2 (µg/l)	WW-1 (µg/l)
Free Product Thickness	None	None	None	None	None	None	None	None	None
Benzene	<1.0	4500	<1.0	2.0	<1.0	<1.0	5.7	<1.0	<1.0
Toluene	<1.0	11300	<1.0	1.8	<1.0	<1.0	9.0	<1.0	<1.0
Ethylbenzene	<1.0	3110	<1.0	1.0	<1.0	<1.0	3.9	<1.0	<1.0
Xylenes	<1.0	16500	<1.0	<1.0	<1.0	<1.0	5.7	<1.0	<1.0
Total BTEX	<4.0	35410	<4.0	<5.8	<4.0	<4.0	24.3	<4.0	<4.0
MTBE	<1.0	5900	<1.0	154	1.3	<1.0	7.9	<1.0	<1.0
Naphthalene	<2.50	345	<2.50	<2.50	<2.50	<2.50	<2.50	<2.50	<5.00
Benzo(a)anthracene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzo(b)flouranthene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzo(k)flouranthene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chrysene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibenzo(a,h)anthracene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

NA = Not Applicable



SEI Environmental, Inc.

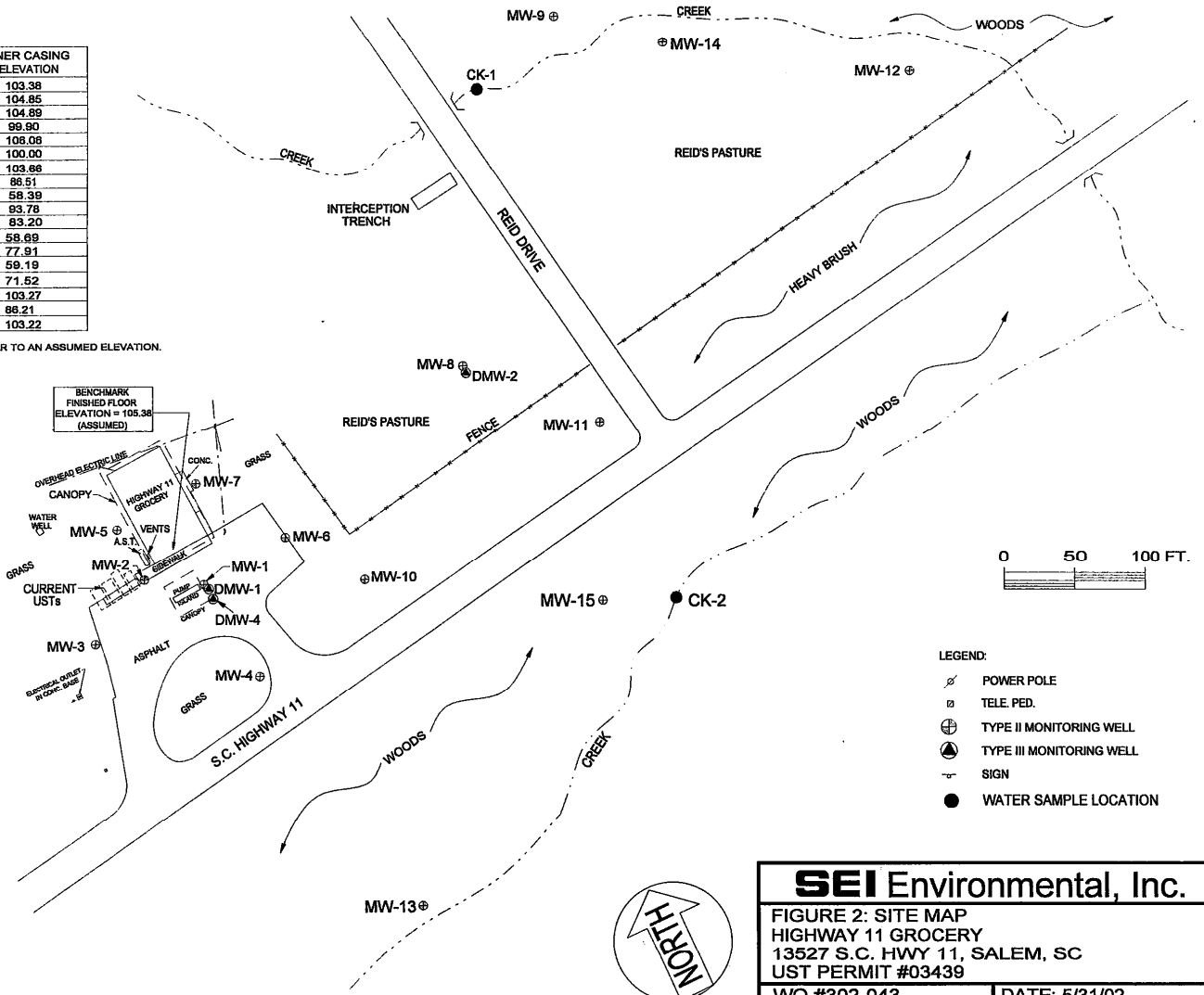
FIGURE 1: SITE LOCATION MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

W.O. #: 300-388
DWG #

DATE: 9/5/01
DRAWN BY: JCI

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	108.09
MW-6	100.90
MW-7	103.88
MW-8	88.51
MW-9	58.39
MW-10	83.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



- LEGEND:
- ⊗ POWER POLE
 - ⊕ TELE. PED.
 - ⊕ TYPE II MONITORING WELL
 - ⊕ TYPE III MONITORING WELL
 - ⊕ SIGN
 - WATER SAMPLE LOCATION

SEI Environmental, Inc.

FIGURE 2: SITE MAP
HIGHWAY 11 GROCERY
13527 S.C. HWY 11, SALEM, SC
UST PERMIT #03439

WO #302-043	DATE: 5/31/02
DWG #H10388F1	DRAWN BY: JCJ



APPENDIX A

Groundwater Sampling Field Measurements

1150-1-11-18

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monahan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>U-10 803013</u> pH=4.0 <u>± 1.002 @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>U-10 803043</u> standard <u>4.49 mS/cm (±10% at 25°C)</u> standard _____ standard _____
--	--

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-1
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: 23.82 feet
 Depth to Ground Water (DGW) 23.91 feet
 Total Well Depth (TWD) 30 feet
 Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
 3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot free product - not sampled.

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, S. Mowhan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>U10 803013</u>	Conductivity Meter serial no. <u>U10 803043</u>
pH=4.0 <u>± 1.002 @ 25°C</u>	standard <u>4.49 mS/cm (± 10% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-2
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 25.33 feet
 Total Well Depth (TWD) 35 feet
 Length of the water column (LWC=TWD-DGW) 9.67 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.57 gals
 3 casing volume (3 X CV) = 4.72 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							<u>11.45</u>
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not

12-5-18

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02

Field Personnel: R. Cate, J. Mowhan, B. Maples

General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>U-10 803013</u> pH=4.0 <u>± 1.002 @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>U-10 803043</u> standard <u>4.9 µS/cm (± 10% @ 25°C)</u> standard _____ standard _____
--	---

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Grocery

Site ID#: _____ Monitoring Well # MW-3

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 24.02 feet

Total Well Depth (TWD) 30 feet

Length of the water column (LWC=TWD-DGW) 5.98 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .97 gals

3 casing volume (3 X CV) = 2.91 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1230
pH (s.u.)	4.70	4.69	4.52				4.64
Specific Conductivity (µmhos/cm)	.014	.015	.014				.013
Water Temperature (°C)	17.8	17.8	17.6	17.4			17.4
Dissolved Oxygen	6.61	6.60	6.97				6.51
PID readings, if required							

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Gate, J. Monahan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>U-10 803013</u> pH=4.0 <u>± 1.002 @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>V-10 803043</u> standard <u>4.9 μS/cm (± 1.0% at 25°C)</u> standard _____ standard _____
--	---

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-4
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 22.42 feet
 Total Well Depth (TWD) 35 feet
 Length of the water column (LWC=TWD-DGW) 12.58 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 2.05 gals
 3 casing volume (3 X CV) = 6.15 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 6.25 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							<u>1215</u>
Specific Conductivity (μmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: Not

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, S. Monahan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>U-10 803013</u>	serial no. <u>U-10 803043</u>
pH=4.0 <u>± 0.02 @ 25°C</u>	standard <u>4.4 μS/cm (± 1.0% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-5
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 28.42 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 6.58 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.07 gals

3 casing volume (3 X CV)= 3.21 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 4 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1200</u>
pH (s.u.)	<u>4.52</u>	<u>4.72</u>	<u>4.68</u>	<u>4.61</u>			<u>4.61</u>
Specific Conductivity (μmhos/cm)	<u>211</u>	<u>1024</u>	<u>1016</u>	<u>1015</u>			<u>1015</u>
Water Temperature (°C)	<u>17.7</u>	<u>17.6</u>	<u>17.4</u>	<u>17.3</u>			<u>17.4</u>
Dissolved Oxygen	<u>7.84</u>	<u>7.05</u>	<u>6.93</u>	<u>7.10</u>			<u>7.10</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02

Field Personnel: R. Galt, S. Monahan, B. Maples

General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>V-10 803013</u>	serial no. <u>V-10 803043</u>
pH=4.0 <u>± 0.02 @ 25°C</u>	standard <u>4.19 µS/cm (± 1.0% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery

Site ID#: _____ Monitoring Well # MW-6

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 20.83 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 14.17 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 2.31 gals

3 casing volume (3 X CV)= 6.93 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 7.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1245</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02

Field Personnel: R. Gate, J. Monahan, B. Maples

General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>V-10 803013</u>	serial no. <u>V-10 803043</u>
pH=4.0 <u>± 1.002 @ 25°C</u>	standard <u>4.49 mS/cm (± 1.0% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery

Site ID#: _____ Monitoring Well # MW-7

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 27.28 feet

Total Well Depth (TWD) 40 feet

Length of the water column (LWC=TWD-DGW) 12.72 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 2.07 gals

3 casing volume (3 X CV)= 6.21 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1225</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: not

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program**

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monahan, B. Maple
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>U40 803013</u>	serial no. <u>U40 803043</u>
pH=4.0 <u>± 1.002 @ 25°C</u>	standard <u>4.49 µS/cm (± 10% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____ Date/Time _____
 Received by _____ Date/Time _____

Facility Name: Hwy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-8
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: 20.34 feet
 Depth to Ground Water (DGW) 20.58 feet
 Total Well Depth (TWD) 30 feet
 Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C) = _____ X _____ = _____ gals
 3 casing volume (3 X CV) = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: hot product - not sampled

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02

Field Personnel: R. Gate, J. Monahan, B. Maple

General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>V-10 803013</u>	serial no. <u>V-10 803043</u>
pH=4.0 <u>± .002 @ 25°C</u>	standard <u>4.49 mS/cm (± 1.0% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery

Site ID#: _____ Monitoring/Well # MW-9

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.25 feet

Total Well Depth (TWD) 12 feet

Length of the water column (LWC=TWD-DGW) _____ feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1415</u>
pH (s.u.)	<u>5.79</u>	<u>5.65</u>	<u>5.62</u>	<u>5.11</u>			<u>5.56</u>
Specific Conductivity (µmhos/cm)	<u>1023</u>	<u>1029</u>	<u>1031</u>	<u>1032</u>			<u>1032</u>
Water Temperature (°C)	<u>14.9</u>	<u>13.7</u>	<u>13.6</u>	<u>13.4</u>			<u>13.3</u>
Dissolved Oxygen	<u>6.53</u>	<u>6.48</u>	<u>5.32</u>	<u>4.94</u>			<u>5.46</u>
PID readings, if required							

Remarks: _____

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 12/16/02

Field Personnel: R. Galt, J. Monahan, B. Maples

General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. U-10 803043 Conductivity Meter serial no. U-10 803043
 pH=4.0 ± 0.02 @ 25°C standard 4.99 mS/cm (± 1.0% @ 25°C)
 pH=7.0 _____ standard _____
 pH=10.0 _____ standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Hy 11 Grocery

Site ID#: _____ Monitoring Well # MW-10

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 19.76 feet

Total Well Depth (TWD) 24 feet

Length of the water column (LWC=TWD-DGW) 4.84 feet

1 casing volume (CV=LWC X C) = _____ X _____ = .78 gals
 3 casing volume (3 X CV) = 2.34 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 2.5 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1330</u>
pH (s.u.)							
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot

**South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling**

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monahan, B. Maple
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>U-10 803013</u>	serial no. <u>U-10 803043</u>
pH=4.0 <u>± 0.02 @ 25°C</u>	standard <u>4.9 μS/cm (± 1.0% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-12
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 2.57 feet
 Total Well Depth (TWD) 12 feet
 Length of the water column (LWC=TWD-DGW) 9.43 feet

1 casing volume (CV=LWC X C) = $9.43 \times 0.163 = 1.5$ gals
 3 casing volume (3 X CV) = 4.5 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1400</u>
pH (s.u.)	<u>4.98</u>	<u>4.91</u>	<u>4.83</u>	<u>4.83</u>			<u>4.82</u>
Specific Conductivity (μmhos/cm)	<u>.026</u>	<u>.025</u>	<u>.025</u>	<u>.025</u>			<u>.025</u>
Water Temperature (°C)	<u>12.8</u>	<u>12.5</u>	<u>11.6</u>	<u>11.6</u>			<u>11.6</u>
Dissolved Oxygen	<u>9.70</u>	<u>9.40</u>	<u>9.99</u>	<u>4.98</u>			<u>4.93</u>
PID readings, if required							

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monehan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>V10 803013</u>	Conductivity Meter serial no. <u>V10 803043</u>
pH=4.0 <u>± 1.002 @ 25°C</u>	standard <u>4.49 mS/cm (± 10% at 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hy 11 Grocery
 Site ID#: _____ Monitoring/Well # MW-13
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 6.29 feet
 Total Well Depth (TWD) 12 feet
 Length of the water column (LWC=TWD-DGW) 5.71 feet

1 casing volume (CV=LWC X C)= _____ X _____ = .93 gals
 3 casing volume (3 X CV)= 2.79 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 3 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1300</u>
pH (s.u.)	<u>5.34</u>	<u>5.33</u>	<u>5.36</u>				<u>5.36</u>
Specific Conductivity (µmhos/cm)	<u>.035</u>	<u>.035</u>	<u>.036</u>				<u>.036</u>
Water Temperature (°C)	<u>13.8</u>	<u>13.8</u>	<u>13.4</u>				<u>13.4</u>
Dissolved Oxygen	<u>7.91</u>	<u>7.10</u>	<u>6.93</u>				<u>6.66</u>
PID readings, if required							

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02

Field Personnel: R. Galt, S. Monahan, B. Maples

General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>U-10 803013</u>	serial no. <u>U-10 803043</u>
pH=4.0 <u>± 0.02 @ 25°C</u>	standard <u>4.9 μS/cm (± 0.2 @ 25°C)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Hwy 11 Grocery

Site ID#: _____ Monitoring Well # MW-14

Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 2.4 feet

Total Well Depth (TWD) 10 feet

Length of the water column (LWC=TWD-DGW) 7.60 feet

1 casing volume (CV=LWC X C) = $7.60 \times 0.163 = 1.23$ gals

3 casing volume (3 X CV) = 3.72 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 3.72 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1400</u>
pH (s.u.)							
Specific Conductivity (μmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Mowkan, B. Maple
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter	Conductivity Meter
serial no. <u>V-10 803013</u>	serial no. <u>V-10 803043</u>
pH=4.0 <u>± 1.002 @ 25°C</u>	standard <u>4.4 μm/cm (± 10% J25)</u>
pH=7.0 _____	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Grocery
 Site ID#: _____ Monitoring Well # MW-15
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet

Depth to Ground Water (DGW) 9.71 feet

Total Well Depth (TWD) 12.0 feet

Length of the water column (LWC=TWD-DGW) 2.29 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 1.37 gals
 3 casing volume (3 X CV) = 4.11 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 1 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							<u>1345</u>
pH (s.u.)	<u>5.09</u>						
Specific Conductivity (μmhos/cm)	<u>-024</u>						
Water Temperature (°C)	<u>13.9</u>						
Dissolved Oxygen	<u>6.22</u>						
PID readings, if required							

Remarks: Bailed Dry after 1 gallon

South Carolina Department of Health and Environmental Control
 Bureau of Land and Waste Management Underground Storage Tank Program
 Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monahan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>U-10 803013</u> pH=4.0 <u>± 1.002 @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>U-10 803043</u> standard <u>4.49 uS/cm (± 10% at 25°C)</u> standard _____ standard _____
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Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hy 11 Grocery
 Site ID#: _____ Monitoring Well # Dmw-1
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) ~~24.31~~ 23.93 feet
 Total Well Depth (TWD) 45 feet
 Length of the water column (LWC=TWD-DGW) 21.07 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 3.43 gals
 3 casing volume (3 X CV) = 10.30 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							
pH (s.u.)							1300
Specific Conductivity (µmhos/cm)							
Water Temperature (°C)							
Dissolved Oxygen							
PID readings, if required							

Remarks: hot

1450 11 01 10

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monahan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. <u>V-10 803013</u> pH=4.0 <u>± 1.002 @ 25°C</u> pH=7.0 _____ pH=10.0 _____	Conductivity Meter serial no. <u>V-10 803043</u> standard <u>4.49 uS/cm (± 10% @ 25°C)</u> standard _____ standard _____
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Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Hwy 11 Grocery
 Site ID#: _____ Monitoring Well # DMW-2
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 16.77 feet
 Total Well Depth (TWD) 75' feet
 Length of the water column (LWC=TWD-DGW) 58.23 feet

1 casing volume (CV=LWC X C)= _____ X _____ = 7.49 gals
 3 casing volume (3 X CV)= 28.47 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 12 gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1450
pH (s.u.)	6.90	8.04					7.88
Specific Conductivity (µmhos/cm)	.131	.129					100
Water Temperature (°C)	17.4	16.2					16.3
Dissolved Oxygen	3.37	3.45					4.505
PID readings, if required							

Remarks: Bailed dry after 12 gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 12/16/02
 Field Personnel: R. Cate, J. Monahan, B. Maples
 General Weather Conditions: cool/clear

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter serial no. U-10 803013 Conductivity Meter serial no. V-10 803043
 pH=4.0 ± 0.02 @ 25°C standard 4.41 µS/cm (± 10% at 25°C)
 pH=7.0 _____ standard _____
 pH=10.0 _____ standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: Hy 11 Grocery
 Site ID#: _____ Monitoring Well # DMW-4
 Water Supply Well _____ Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
 for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
 Depth to Ground Water (DGW) 24.31 feet
 Total Well Depth (TWD) 60 feet
 Length of the water column (LWC=TWD-DGW) 35.69 feet

1 casing volume (CV=LWC X C) = _____ X _____ = 5.81 gals
 3 casing volume (3 X CV) = 17.45 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
 *If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)							1200
pH (s.u.)	5.27	5.96	5.99	6.00			6.62
Specific Conductivity (µmhos/cm)	1070	1045	1041	1039			1039
Water Temperature (°C)	20.0	18.2	17.8	17.7			17.8
Dissolved Oxygen	4.38	5.68	5.31	5.48			5.38
PID readings, if required							

Remarks: _____

APPENDIX B

Laboratory Analytical Results



APPENDIX C

Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. GK5069

2. Page 1 of

3. Generator's Name and Mailing Address

SEI ENVIRONMENTAL, INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA, SC 29223

4. Generator's Phone ()

5. Transporter 1 Company Name
SEI ENVIRONMENTAL, INC

6. US EPA ID Number

A. Transporter's Phone
803-788-2535

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

G & K TANK SERVICES
PO BOX 1384
SUMTER, SC 29151

US EPA ID Number

C. Facility's Phone

800-800-6840

11. Waste Shipping Name and Description

a. NON HAZARDOUS PETROLEUM CONTAMINATED WATER
HWY 11 GROCERY SALEM, SC

12. Containers
No. Type

13. Total Quantity

14. Unit Wt/Vol

02DR

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

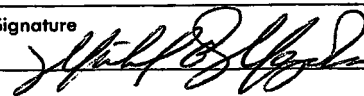
17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

MICHAEL B. MAPLES



12 17 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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

S. Collier



12 17 02

GENERATOR

TRANSPORTER

FACILITY



Broad St. Extension • PO Box 1384 • Sumter, SC 29151
(803) 494-2694 • 1-800-800-6840 • FAX: (803) 494-8598

Certificate of Disposal

Tons 2 Drums
Hwy 11 Grocery
Salem, SC

Contaminant NonHazardous Petroleum
Contaminated Water

This is to certify the above ^{water} ~~oil~~ has been processed and disposed of by G & K Tank Services, Inc., in accordance with and exceeding EPA regulations on petroleum contaminated soils.

Certified by *S. Solley*

Date 12/17/02

	MR	MR	AR
MW-1	2/14/08	4/27/10	12/13/10
DTW	FP	FP	26.92
Benzene	(0.03')	(0.55')	4530
Toluene			8750
Ethylbenzene			1150
Xylenes			6430
MTBE			30400
Naphthalene			529
Lead			na
DCA			<250
EDB			na
DIPE			449
TAA			3430
TAME			735
TBA			1600

	2/14/08	4/27/10	12/13/10
MW-2			
DTW	27.53	25.39	28.00
Benzene	4	4	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	1	3	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

	2/14/08	4/27/10	12/13/10
MW-3			
DTW	26.21	24.09	26.71
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	1	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	9	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

	2/14/08	4/27/10	12/13/10
MW-4			
DTW	26.44	22.28	24.04
Benzene	<1	532	520
Toluene	<1	906	224
Ethylbenzene	<1	179	55
Xylenes	<3	895	482
MTBE	1	381	763
Naphthalene	<2	31	18
Lead	na	<5	na
DCA	na	<5	<25
EDB	na	<0.02	na
DIPE	na	22	25
TAA	na	355	342
TAME	na	14	<50
TBA	na	<100	<500

	2/14/08	4/27/10	12/13/10
MW-5			
DTW	30.60	well	well
Benzene	<1	not	not
Toluene	<1	located	located
Ethylbenzene	<1		
Xylenes	<3		
MTBE	<1		
Naphthalene	<2		
Lead	na		
DCA	na		
EDB	na		
DIPE	na		
TAA	na		
TBA	na		
TAME	na		

41-TECH

MW-6	2/14/08	4/27/10	12/13/10
DTW	22.77	21.02	23.60
Benzene	162	5570	1300
Toluene	750	19900	6340
Ethylbenzene	26	2260	360
Xylenes	575	12300	7910
MTBE	11	35300	2500
Naphthalene	12	463	<250
Lead	na	8	na
DCA	na	<5	<250
EDB	na	<0.02	na
DIPE	na	536	<250
TAA	na	3110	<5000
TAME	na	914	<500
TBA	na	<100	<5000

MW-7	2/14/08	4/27/10	12/13/10
DTW	26.64	well	well
Benzene	59	not	not
Toluene	60	accessible	located
Ethylbenzene	3		
Xylenes	41		
MTBE	2		
Naphthalene	<2		
Lead	na		
DCA	na		
EDB	na		
DIPE	na		
TAA	na		
TAME	na		
TBA	na		

MW-8	2/14/08	4/27/10	12/13/10
DTW	FP	FP	FP
Benzene	(1.93')	(0.45')	(1.00')
Toluene			
Ethylbenzene			
Xylenes			
MTBE			
Naphthalene			
Lead			
DCA			
EDB			
DIPE			
TAME			
TBA			

MW-9	2/14/08	4/27/10	12/13/10
DTW	2.22	nm	2.30
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-10	2/14/08	4/27/10	12/13/10
DTW	20.72	18.91	20.59
Benzene	401	<5	50
Toluene	129	<5	8
Ethylbenzene	167	<5	5
Xylenes	721	<10	52
MTBE	296	4	23
Naphthalene	46	<5	<5
Lead	na	4	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-11	2/14/08	4/27/10	12/13/10
DTW	16.90	16.04	15.80
Benzene	<1	<5	<5
Toluene	2	3	<5
Ethylbenzene	1	<5	<5
Xylenes	7	4	<10
MTBE	2	<5	<5
Naphthalene	1	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-12	2/14/08	4/27/10	12/13/10
DTW	3.15	2.71	3.33
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	4	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-13	2/14/08	4/27/10	12/13/10
DTW	well	6.31	6.27
Benzene	not	<5	<5
Toluene	located	<5	<5
Ethylbenzene		<5	<5
Xylenes		<10	<10
MTBE		<5	<5
Naphthalene		<5	<5
Lead		6	na
DCA		<5	<5
EDB		0.05	na
DIPE		<5	<5
TAA		<100	<100
TAME		<10	<10
TBA		<100	<100

MW-14	2/14/08	4/27/10	12/13/10
DTW	2.09	2.21	2.53
Benzene	3640	1770	1410
Toluene	14500	6420	4840
Ethylbenzene	2700	1560	1490
Xylenes	14300	8850	8450
MTBE	5500	2020	1500
Naphthalene	439	432	359
Lead	na	<5	na
DCA	na	<5	<250
EDB	na	<0.02	na
DIPE	na	96	<250
TAA	na	717	<5000
TAME	na	134	<500
TBA	na	<100	<5000

MW-15	2/14/08	4/27/10	12/13/10
DTW	nm	10.30	well
Benzene	ns	<5	not
Toluene		<5	located
Ethylbenzene		<5	
Xylenes		<10	
MTBE		<5	
Naphthalene		<5	
Lead		<5	
DCA		<5	
EDB		<0.02	
DIPE		<5	
TAA		<100	
TAME		<10	
TBA		<100	

DMW-1	2/14/08	4/27/10	12/13/10
DTW	26.18	24.12	26.45
Benzene	<1	<5	3
Toluene	<1	3	4
Ethylbenzene	<1	<5	<5
Xylenes	<3	5	3
MTBE	12	<5	104
Naphthalene	<2	4	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

DMW-2	2/14/08	4/27/10	12/13/10
DTW	20.86	24.20	17.85
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	3	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

DMW-4	2/14/08	4/27/10	12/13/10
DTW	26.44	24.41	26.90
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

RW-1			12/13/10
DTW			26.65
Benzene			3550
Toluene			13500
Ethylbenzene			1190
Xylenes			6220
MTBE			24500
Naphthalene			874
Lead			na
DCA			<125
EDB			na
DIPE			373
TAA			3850
TAME			586
TBA			5200

RW-2			12/13/10
DTW			FP
Benzene			(0.02')
Toluene			
Ethylbenzene			
Xylenes			
MTBE			
Naphthalene			
Lead			
DCA			
EDB			
DIPE			
TAA			
TAME			
TBA			

RW-3			12/13/10
DTW			23.68
Benzene			4860
Toluene			20800
Ethylbenzene			3240
Xylenes			17500
MTBE			10200
Naphthalene			1290
Lead			na
DCA			<250
EDB			na
DIPE			284
TAA			<5000
TAME			454
TBA			<5000

RW-4			12/13/10
DTW			24.34
Benzene			2390
Toluene			6720
Ethylbenzene			467
Xylenes			4020
MTBE			7780
Naphthalene			169
Lead			na
DCA			<5
EDB			na
DIPE			203
TAA			581
TAME			259
TBA			764

CK-1	2/14/08	4/27/10	12/13/10
DTW			
Benzene	9	3	4
Toluene	17	6	6
Ethylbenzene	5	2	2
Xylenes	24	8	9
MTBE	12	5	5
Naphthalene	1	<5	<5
Lead	na	na	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

CK-2	2/14/08	4/27/10	12/13/10
DTW			
Benzene	ns	13	16
Toluene		36	36
Ethylbenzene		6	7
Xylenes		32	34
MTBE		17	23
Naphthalene		<5	7
Lead		na	na
DCA		<5	<5
EDB		<0.02	na
DIPE		<5	<5
TAA		<100	<100
TAME		<10	<10
TBA		<100	<100

CK-3	2/14/08	4/27/10	12/13/10
DTW			
Benzene	21	13	18
Toluene	54	38	39
Ethylbenzene	10	7	8
Xylenes	62	37	42
MTBE	<40	19	28
Naphthalene	4	<5	4
Lead	na	na	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

City
 Xylene
 MTBE
 Lead
 DCA
 EDB
 DIPE
 TAA
 TAME

WSW-1	2/14/08	4/27/10	12/13/10
DTW			
Benzene	<1	ns	<5
Toluene	<1		<5
Ethylbenzene	<1		<5
Xylenes	<3		<10
MTBE	<1		<5
Naphthalene	<2		<5
Lead	na		na
DCA	na		<5
EDB	na		na
DIPE	na		<5
TAA	na		<100
TAME	na		<10
TBA	na		<100

FP- free-phase product

na- not analyzed

nd- not detected

nm- not measured

ns- not sampled

RECEIVED

Joel
NOV 29 2007

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #03439

UNDERGROUND STORAGE
TANK PROGRAM

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, Steven Smith, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize SCDHEC, or a contractor selected by SCDHEC, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. The contractor(s) will be designated as my contractor for only the required site rehabilitation activities. Compensation to the contractor(s) will be from the SUPERB Account and I will have no obligation to pay the contractor(s). I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Bureau of Underground Storage Tank Management in writing.

Name of Facility Hwy 11 Grocery Phone # 864 944-0494

Street Address of Facility 13527 N Hwy 11

Town, City, District, Suburb Salem SC 29676

Name of nearest intersecting street, road, highway, alley
SC Hwy 11 / 130

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines Steven Smith
phone number 944-0494

Were underground storage tanks previously removed from the ground at this facility? (yes or no) NO
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation _____
Phone number _____

Is the property currently leased or rented to someone? (yes or no) NO. If yes, please provide their name _____ and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of UST/property owner (Please Print): Steven Smith

Phone Number (home) _____ (work) 864 944 0494

Signature of UST/property Owner: Steven M Smith

Witness: Elaine C Spe

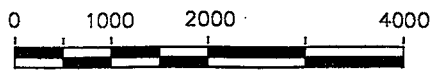
Date: 11 Month 28 Day 2007 Year

UST PROGRAM DOCKETING # **SCANNED**




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GRAPHIC SCALE



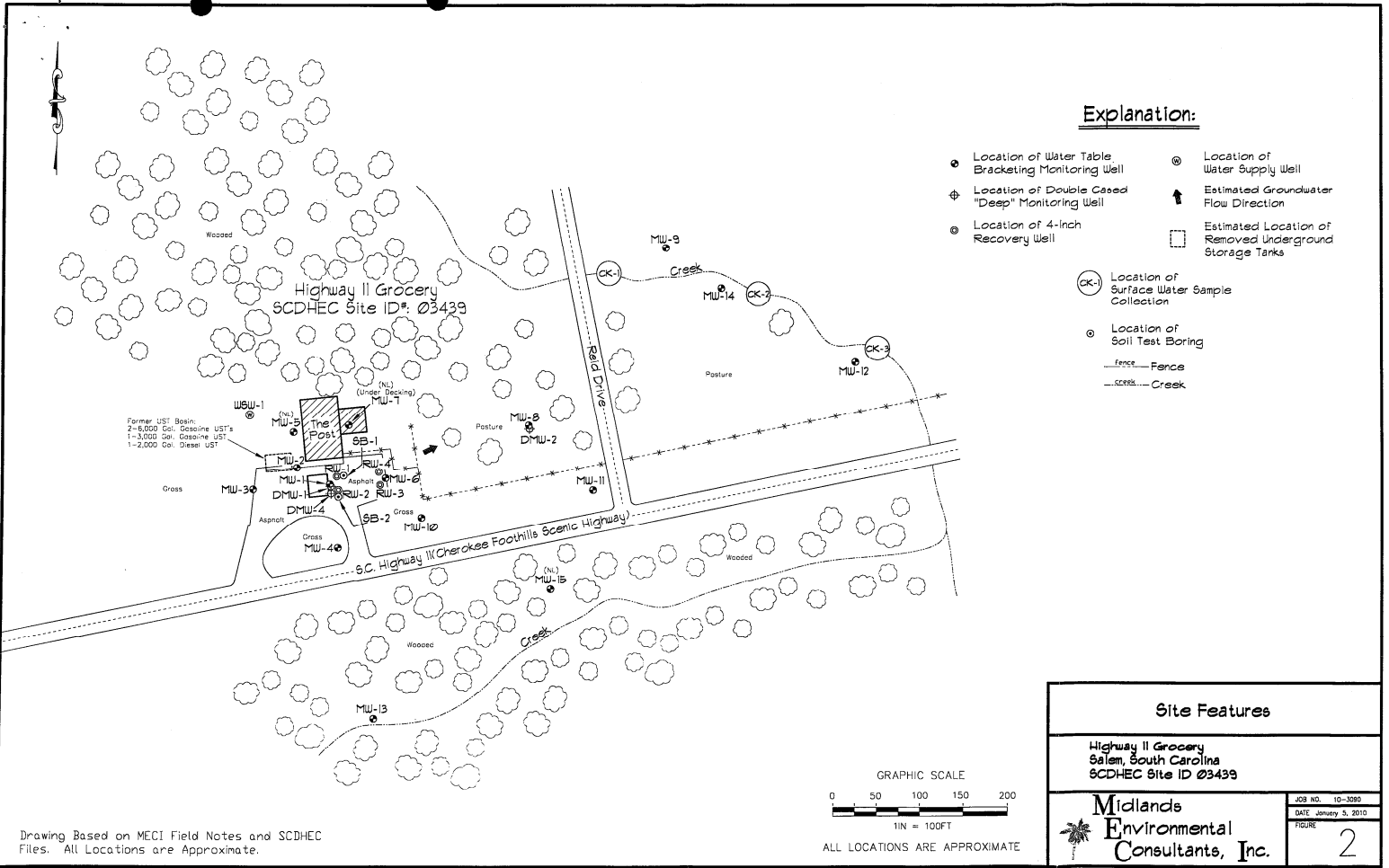
1IN = 2000FT

Reference: Salem and Old Pickens, South Carolina
 Tamassee and Walhalla, South Carolina
 USGS 7.5 Min. Quad
 Countour Interval - 20 Feet

<p>Midlands  Environmental Consultants, Inc.</p>	<p>Site Location</p>
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Highway 11 Grocery
 13527 South Carolina Highway 11, Salem, SC
 SCDHEC Site ID* 03439

<p>Figure 1</p>	<p>MECI 10-3090</p>
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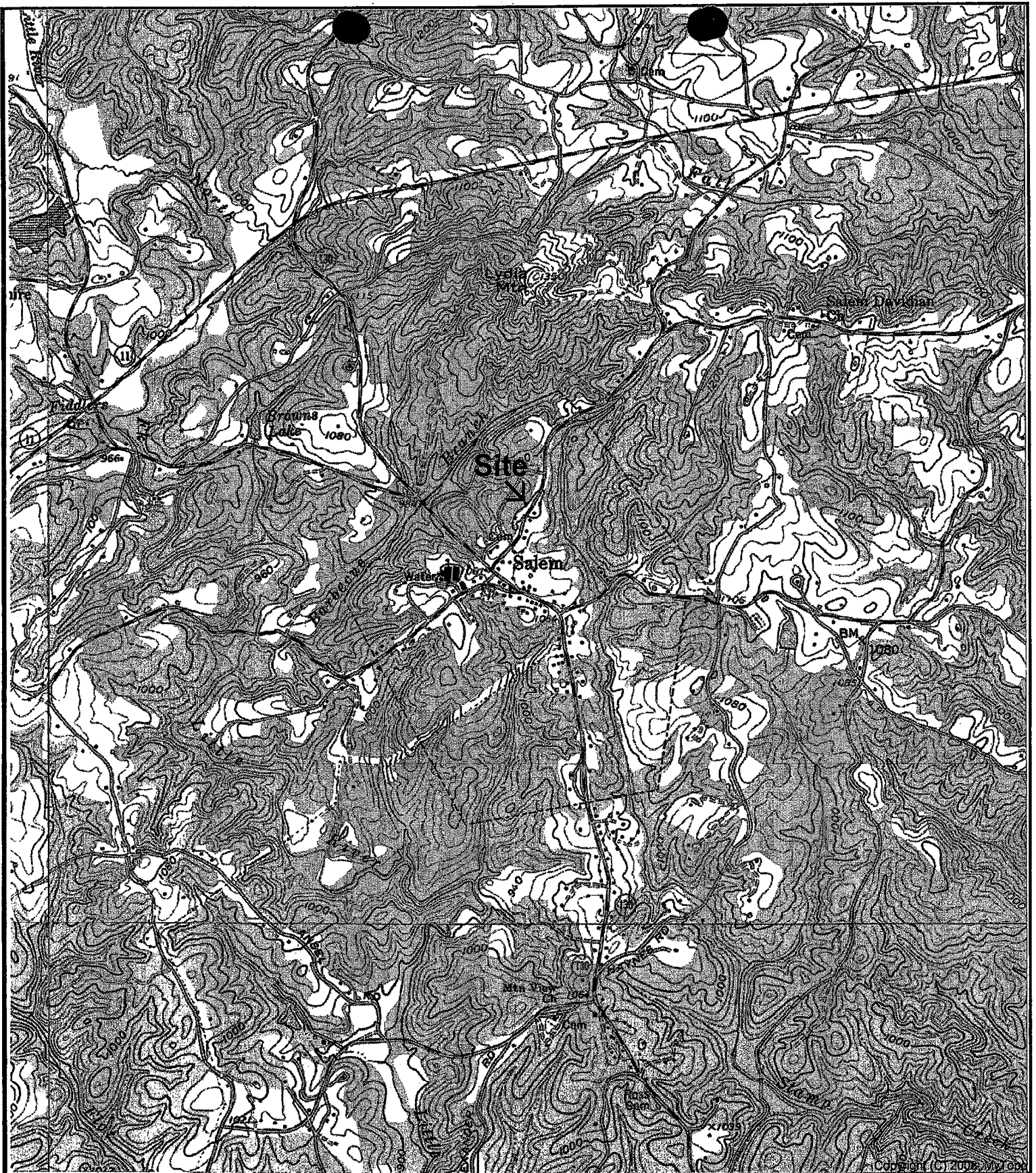


Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

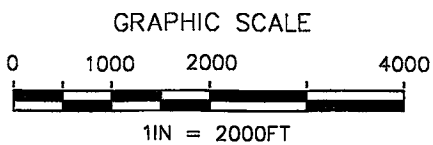
UST Permit:
Facility:
County:

03439
Highway 11 Grocery
Oconee

WELL #	SCREEN	TOC
MW-1	15-30'	103.38'
MW-2	20-35'	104.85'
MW-3	20-30'	104.89'
MW-4	20-35'	99.90'
MW-5	20-35'	106.06'
MW-6	20-35'	100.00'
MW-7	25-40'	103.66'
MW-8	15-30'	86.51'
MW-9	2-10'	58.39'
MW-10	13-28'	93.78'
MW-11	8-23'	83.20'
MW-12	2-12'	58.69'
MW-13	2-12'	77.91'
MW-14	2-10'	59.19'
MW-15	4-9'	71.52'
RW-1	10-30'	103.29'
RW-2	10-30'	102.85'
RW-3	10-30'	100.25'
RW-4	10-30'	101.00'
DMW-1	40-45'	103.27'
DMW-2	65-75'	86.21'
DMW-4	55-60'	103.22'

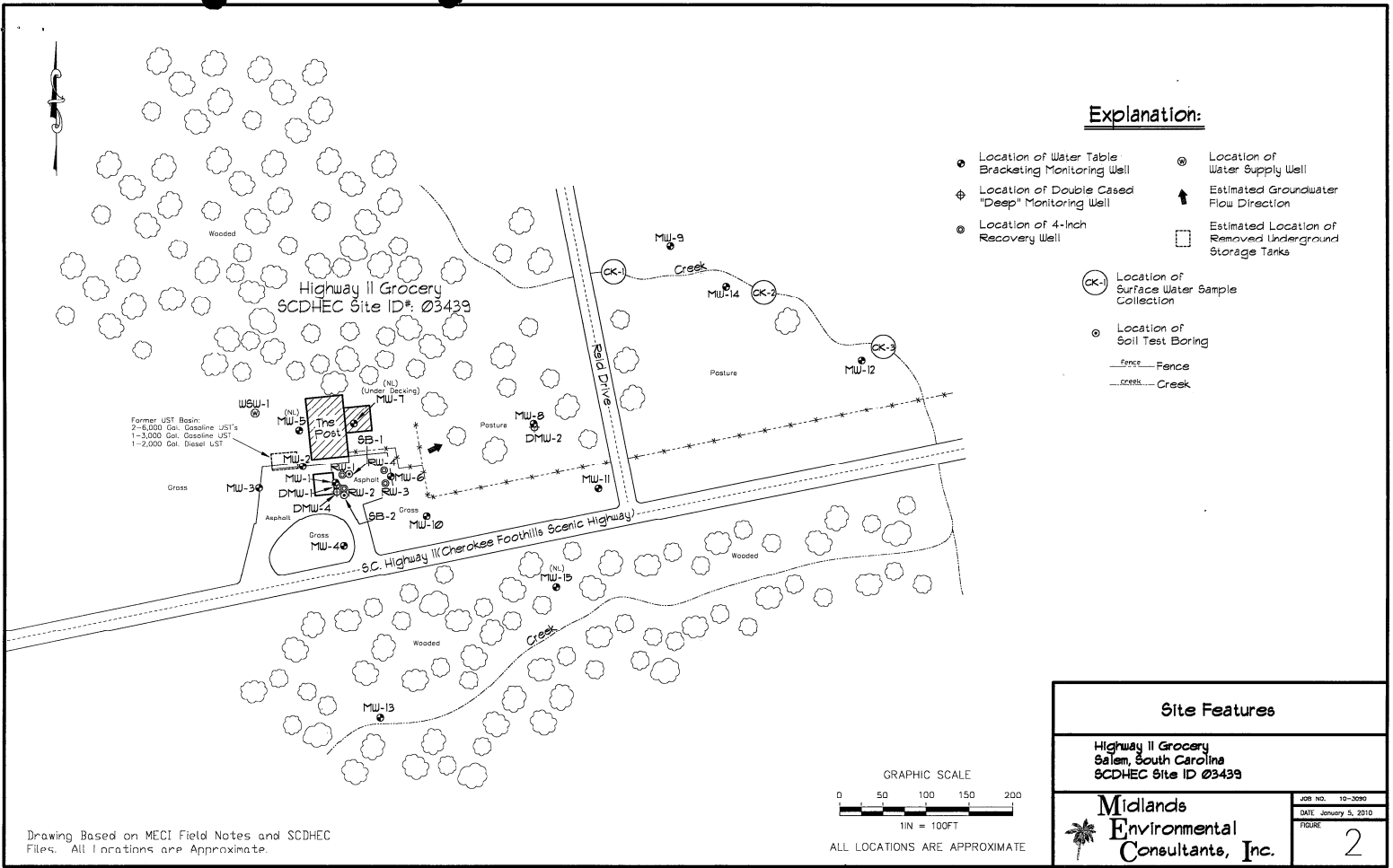


Copyright (C) 2008, M/1000



Reference: Salem and Old Pickens, South Carolina
 Tamassee and Walhalla, South Carolina
 USGS 7.5 Min. Quad
 Countour Interval - 20 Feet

<p>Midlands Environmental Consultants, Inc.</p>	<p>Site Location</p>
<p>Highway 11 Grocery 13527 South Carolina Highway 11, Salem, SC SCDHEC Site ID# 03439</p>	
<p>Figure 1</p>	<p>MECI 10-3090</p>



Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

Notes:

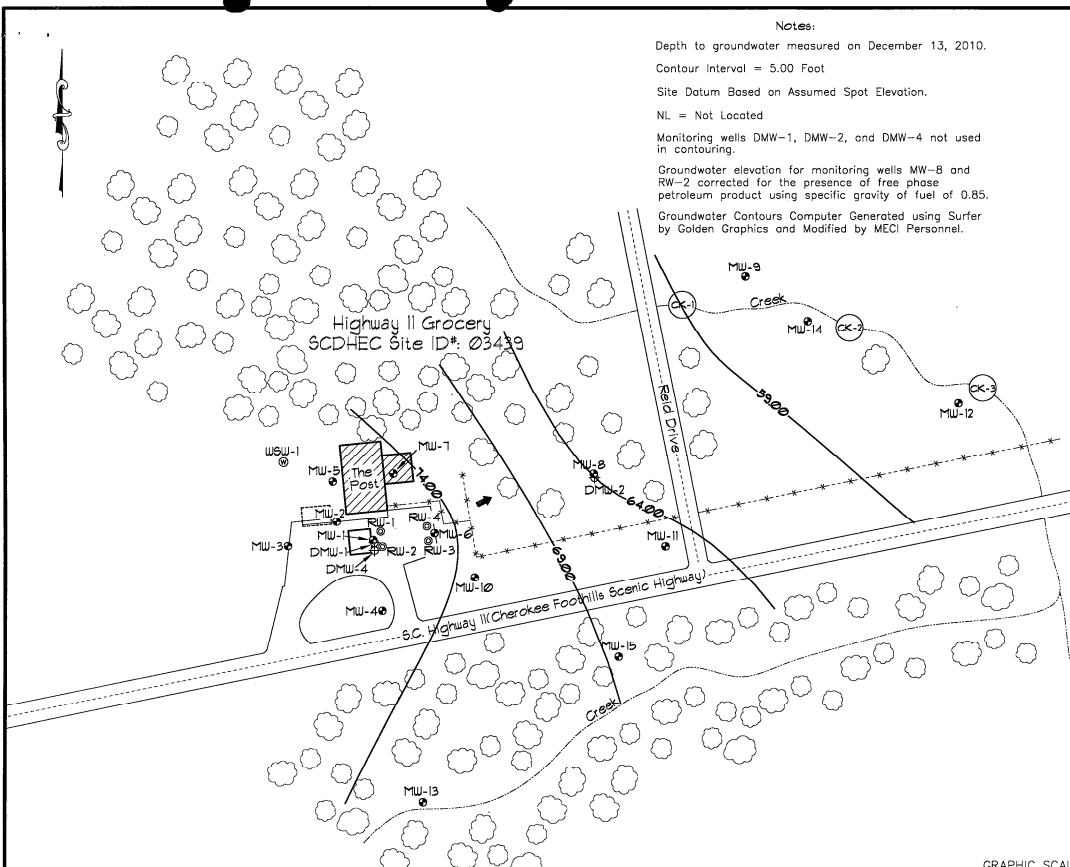
Depth to groundwater measured on December 13, 2010.
 Contour Interval = 5.00 Foot
 Site Datum Based on Assumed Spot Elevation.
 NL = Not Located
 Monitoring wells DMW-1, DMW-2, and DMW-4 not used in contouring.
 Groundwater elevation for monitoring wells MW-8 and RW-2 corrected for the presence of free phase petroleum product using specific gravity of fuel of 0.85.
 Groundwater Contours Computer Generated using Surfber by Golden Graphics and Modified by MECI Personnel.

Explanation:

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

— Groundwater Elevation Contour (feet)

Groundwater Elevation Data					
Well #	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well Head Elevation	Groundwater Elevation
MW-1	---	26.32	---	103.38	76.46
MW-2	---	28.00	---	104.85	76.85
MW-3	---	26.71	---	104.89	78.18
MW-4	---	24.04	---	99.90	75.86
MW-5	---	NL	---	100.06	NL
MW-6	---	23.60	---	100.00	76.40
MW-7	---	NL	---	103.66	NL
MW-8	22.10	23.70	1.00	86.51	63.66
MW-9	---	2.30	---	58.39	56.09
MW-10	---	20.59	---	93.18	73.19
MW-11	---	15.00	---	83.20	67.40
MW-12	---	3.33	---	58.69	55.36
MW-13	---	6.21	---	71.91	71.64
MW-14	---	2.53	---	59.19	56.66
MW-15	---	NL	---	71.52	NL
DMW-1	---	26.45	---	103.27	76.82
DMW-2	---	17.85	---	86.21	68.36
DMW-4	---	26.90	---	103.22	76.32
RW-1	---	76.65	---	103.29	76.64
RW-2	26.63	26.65	0.02	102.85	76.22
RW-3	---	23.68	---	100.25	76.57
RW-4	---	24.34	---	101.00	76.66

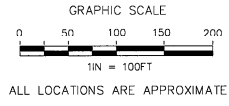


Groundwater Contour Map

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID 03439



JOB NO. 10-3090
 DATE January 5, 2010
 FIGURE 3



Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

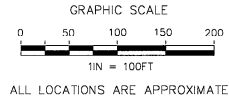
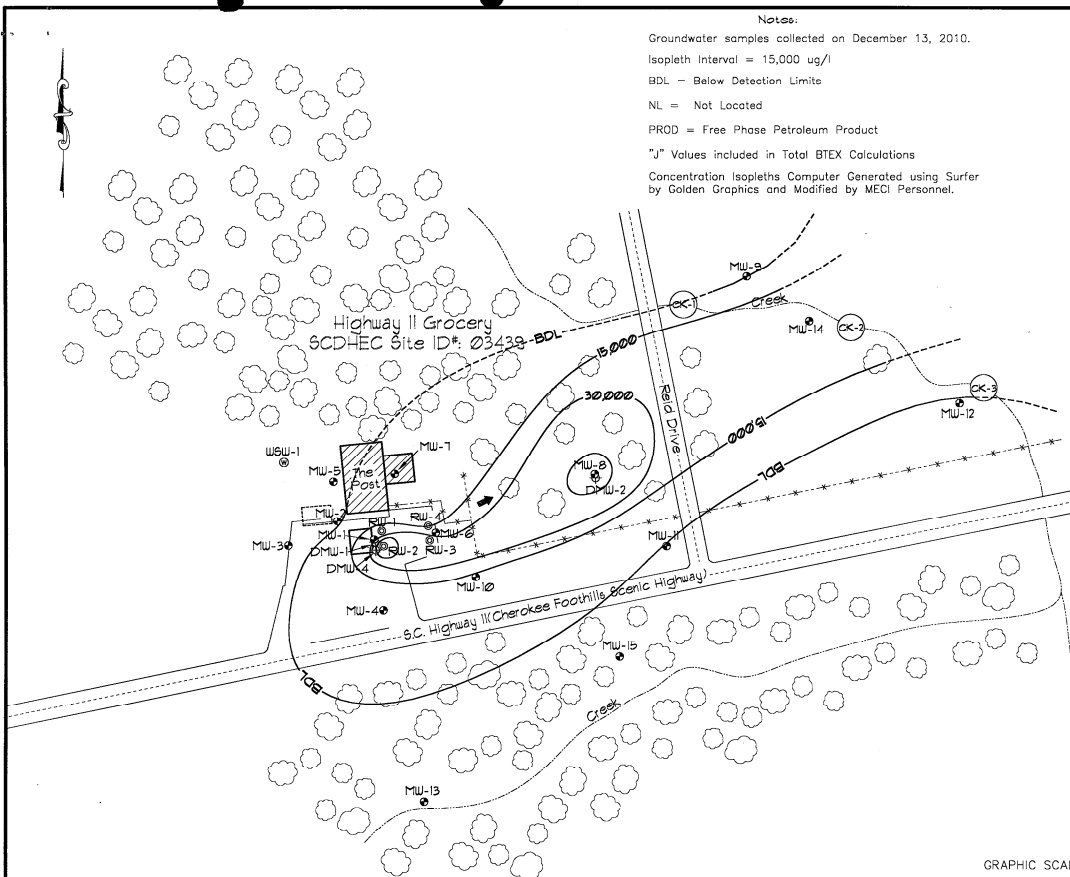
Notes:
 Groundwater samples collected on December 13, 2010.
 Isoleth interval = 15,000 ug/l
 BDL = Below Detection Limite
 NL = Not Located
 PROD = Free Phase Petroleum Product
 "J" Values included in Total BTEX Calculations
 Concentration Isoleths Computer Generated using Surfer
 by Golden Graphics and Modified by MECI Personnel.

Explanation:

- ⊙ Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊖ Location of 4-inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Ⓞ Location of Surface Water Sample Collection

Total BTEX Concentration Isoleth (ug/l)

Sample #	COC Concentration Data							
	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)
MW-1	4,530	8,750	1,150	6,430	20,860	30,400	529	<250
MW-2	<5.0	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0
MW-3	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-4	520	224	55.2	482	1,281.2	783	18.24	<25.0
MW-5	NL	NL	NL	NL	NL	NL	NL	NL
MW-6	1,300	6,340	350	7,910	15,910	2,500	<250	<250
MW-7	NL	NL	NL	NL	NL	NL	NL	NL
MW-8	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-10	50.0	8.0	5.2	51.7	114.9	22.5	<5.0	<5.0
MW-11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-14	1,410	4,840	1,490	8,450	16,190	1,500	359	<250
MW-15	NL	NL	NL	NL	NL	NL	NL	NL
DMW-1	3.0J	3.6J	<5.0	3.1J	9.7J	104	<5.0	<5.0
DMW-2	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
DMW-4	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
RW-1	3,550	13,500	1,190	6,220	24,460	24,500	874	<125
RW-2	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-3	4,860	20,800	3,240	17,500	46,400	10,200	1,290	<250
RW-4	2,390	6,720	467	4,020	13,597	7,780	169	<5.0
CK-1	4.4J	6.2	2.1J	9.3J	22.0J	5.4	<5.0	<5.0
CK-2	16.1	35.6	6.8	34.2	92.7	23.2	6.8	<5.0
CK-3	17.9	39.1	8.1	41.9	107.0	28.1	3.74	<5.0
CSW-31	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0



Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

Total BTEX Isoleth Map

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID 03439

Midlands Environmental Consultants, Inc.

JOB NO. 10-3090
 DATE January 5, 2010
 FIGURE 4

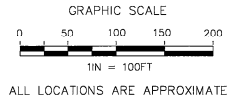
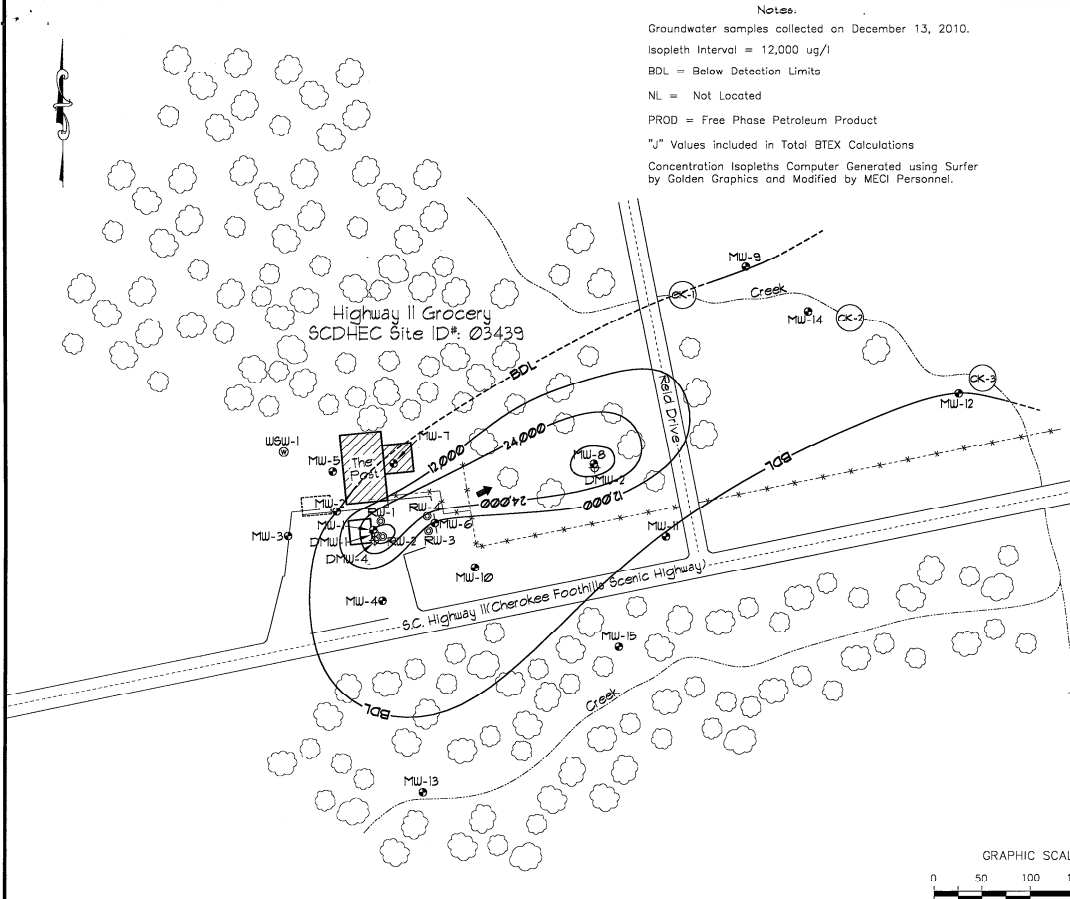
Notes:
 Groundwater samples collected on December 13, 2010.
 Isoleth Interval = 12,000 ug/l
 BDL = Below Detection Limits
 NL = Not Located
 PROD = Free Phase Petroleum Product
 "J" Values included in Total BTEX Calculations
 Concentration Isoleths Computer Generated using Surfer
 by Golden Graphics and Modified by MECI Personnel.

Explanation:

- ⊙ Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of 4-inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- ⊠ Estimated Location of Removed Underground Storage Tanks
- ⊙ Location of Surface Water Sample Collection

MTBE Concentration Isoleth (ug/l)

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)
MW-1	4,530	8,750	1,150	6,430	20,860	30,400	529	<250
MW-2	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-3	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-4	520	224	55.2	482	1,281.2	763	18.24	<25.0
MW-5	NL	NL	NL	NL	NL	NL	NL	NL
MW-6	1,300	6,340	360	7,910	15,910	2,500	<250	<250
MW-7	NL	NL	NL	NL	NL	NL	NL	NL
MW-8	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-10	50.0	8.9	5.2	51.7	114.9	22.8	<5.0	<5.0
MW-11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
MW-14	1,410	4,840	1,490	8,450	16,190	1,500	359	<250
MW-15	NL	NL	NL	NL	NL	NL	NL	NL
DMW-1	3.0J	3.6J	<5.0	3.1J	9.7J	104	<5.0	<5.0
DMW-2	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
DMW-4	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0
RW-1	3,550	13,500	1,190	6,220	24,460	24,500	874	<125
RW-2	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-3	4,880	20,800	3,240	17,500	46,400	10,200	1,290	<250
RW-4	2,390	6,720	467	4,020	13,597	7,780	189	<5.0
CK-1	4.4J	6.2	2.1J	9.3J	22.0J	5.4	<5.0	<5.0
CK-2	16.1	35.6	6.8	34.2	92.7	23.2	6.8	<5.0
CK-3	17.9	39.1	9.1	41.9	107.0	28.1	3.74	<5.0
WSW-31	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0



Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

MTBE Isoleth Map

Highway 11 Grocery
 Salem, South Carolina
 SCDHEC Site ID 03439

Midlands Environmental Consultants, Inc.

JOB NO. 10-3090
 DATE January 5, 2010
 FIGURE 5

	MR	MR	AR
MW-1	2/14/08	4/27/10	12/13/10
DTW	FP	FP	26.92
Benzene	(0.03')	(0.55')	4530
Toluene			8750
Ethylbenzene			1150
Xylenes			6430
MTBE			30400
Naphthalene			529
Lead			na
DCA			<250
EDB			na
DIPE			449
TAA			3430
TAME			735
TBA			1600

	2/14/08	4/27/10	12/13/10
MW-2			
DTW	27.53	25.39	28.00
Benzene	4	4	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	1	3	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

	2/14/08	4/27/10	12/13/10
MW-3			
DTW	26.21	24.09	26.71
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	1	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	9	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

	2/14/08	4/27/10	12/13/10
MW-4			
DTW	26.44	22.28	24.04
Benzene	<1	532	520
Toluene	<1	906	224
Ethylbenzene	<1	179	55
Xylenes	<3	895	482
MTBE	1	381	763
Naphthalene	<2	31	18
Lead	na	<5	na
DCA	na	<5	<25
EDB	na	<0.02	na
DIPE	na	22	25
TAA	na	355	342
TAME	na	14	<50
TBA	na	<100	<500

	2/14/08	4/27/10	12/13/10
MW-5			
DTW	30.60	well	well
Benzene	<1	not	not
Toluene	<1	located	located
Ethylbenzene	<1		
Xylenes	<3		
MTBE	<1		
Naphthalene	<2		
Lead	na		
DCA	na		
EDB	na		
DIPE	na		
TAA	na		
TBA	na		
TAME	na		

MW-6	2/14/08	4/27/10	12/13/10
DTW	22.77	21.02	23.60
Benzene	162	5570	1300
Toluene	750	19900	6340
Ethylbenzene	26	2260	360
Xylenes	575	12300	7910
MTBE	11	35300	2500
Naphthalene	12	463	<250
Lead	na	8	na
DCA	na	<5	<250
EDB	na	<0.02	na
DIPE	na	536	<250
TAA	na	3110	<5000
TAME	na	914	<500
TBA	na	<100	<5000

MW-7	2/14/08	4/27/10	12/13/10
DTW	26.64	well	well
Benzene	59	not	not
Toluene	60	accessible	located
Ethylbenzene	3		
Xylenes	41		
MTBE	2		
Naphthalene	<2		
Lead	na		
DCA	na		
EDB	na		
DIPE	na		
TAA	na		
TAME	na		
TBA	na		

MW-8	2/14/08	4/27/10	12/13/10
DTW	FP	FP	FP
Benzene	(1.93')	(0.45')	(1.00')
Toluene			
Ethylbenzene			
Xylenes			
MTBE			
Naphthalene			
Lead			
DCA			
EDB			
DIPE			
TAME			
TBA			

MW-9	2/14/08	4/27/10	12/13/10
DTW	2.22	nm	2.30
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-10	2/14/08	4/27/10	12/13/10
DTW	20.72	18.91	20.59
Benzene	401	<5	50
Toluene	129	<5	8
Ethylbenzene	167	<5	5
Xylenes	721	<10	52
MTBE	296	4	23
Naphthalene	46	<5	<5
Lead	na	4	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-11	2/14/08	4/27/10	12/13/10
DTW	16.90	16.04	15.80
Benzene	<1	<5	<5
Toluene	2	3	<5
Ethylbenzene	1	<5	<5
Xylenes	7	4	<10
MTBE	2	<5	<5
Naphthalene	1	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-12	2/14/08	4/27/10	12/13/10
DTW	3.15	2.71	3.33
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	4	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

MW-13	2/14/08	4/27/10	12/13/10
DTW	well	6.31	6.27
Benzene	not	<5	<5
Toluene	located	<5	<5
Ethylbenzene		<5	<5
Xylenes		<10	<10
MTBE		<5	<5
Naphthalene		<5	<5
Lead		6	na
DCA		<5	<5
EDB		0.05	na
DIPE		<5	<5
TAA		<100	<100
TAME		<10	<10
TBA		<100	<100

MW-14	2/14/08	4/27/10	12/13/10
DTW	2.09	2.21	2.53
Benzene	3640	1770	1410
Toluene	14500	6420	4840
Ethylbenzene	2700	1560	1490
Xylenes	14300	8850	8450
MTBE	5500	2020	1500
Naphthalene	439	432	359
Lead	na	<5	na
DCA	na	<5	<250
EDB	na	<0.02	na
DIPE	na	96	<250
TAA	na	717	<5000
TAME	na	134	<500
TBA	na	<100	<5000

MW-15	2/14/08	4/27/10	12/13/10
DTW	nm	10.30	well
Benzene	ns	<5	not
Toluene		<5	located
Ethylbenzene		<5	
Xylenes		<10	
MTBE		<5	
Naphthalene		<5	
Lead		<5	
DCA		<5	
EDB		<0.02	
DIPE		<5	
TAA		<100	
TAME		<10	
TBA		<100	

DMW-1	2/14/08	4/27/10	12/13/10
DTW	26.18	24.12	26.45
Benzene	<1	<5	3
Toluene	<1	3	4
Ethylbenzene	<1	<5	<5
Xylenes	<3	5	3
MTBE	12	<5	104
Naphthalene	<2	4	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

DMW-2	2/14/08	4/27/10	12/13/10
DTW	20.86	24.20	17.85
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	3	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

DMW-4	2/14/08	4/27/10	12/13/10
DTW	26.44	24.41	26.90
Benzene	<1	<5	<5
Toluene	<1	<5	<5
Ethylbenzene	<1	<5	<5
Xylenes	<3	<10	<10
MTBE	<1	<5	<5
Naphthalene	<2	<5	<5
Lead	na	<5	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

RW-1			12/13/10
DTW			26.65
Benzene			3550
Toluene			13500
Ethylbenzene			1190
Xylenes			6220
MTBE			24500
Naphthalene			874
Lead			na
DCA			<125
EDB			na
DIPE			373
TAA			3850
TAME			586
TBA			5200

RW-2			12/13/10
DTW			FP
Benzene			(0.02')
Toluene			
Ethylbenzene			
Xylenes			
MTBE			
Naphthalene			
Lead			
DCA			
EDB			
DIPE			
TAA			
TAME			
TBA			

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RW-3			12/13/10
DTW			23.68
Benzene			4860
Toluene			20800
Ethylbenzene			3240
Xylenes			17500
MTBE			10200
Naphthalene			1290
Lead			na
DCA			<250
EDB			na
DIPE			284
TAA			<5000
TAME			454
TBA			<5000

RW-4			12/13/10
DTW			24.34
Benzene			2390
Toluene			6720
Ethylbenzene			467
Xylenes			4020
MTBE			7780
Naphthalene			169
Lead			na
DCA			<5
EDB			na
DIPE			203
TAA			581
TAME			259
TBA			764

CK-1	2/14/08	4/27/10	12/13/10
DTW			
Benzene	9	3	4
Toluene	17	6	6
Ethylbenzene	5	2	2
Xylenes	24	8	9
MTBE	12	5	5
Naphthalene	1	<5	<5
Lead	na	na	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

CK-2	2/14/08	4/27/10	12/13/10
DTW			
Benzene	ns	13	16
Toluene		36	36
Ethylbenzene		6	7
Xylenes		32	34
MTBE		17	23
Naphthalene		<5	7
Lead		na	na
DCA		<5	<5
EDB		<0.02	na
DIPE		<5	<5
TAA		<100	<100
TAME		<10	<10
TBA		<100	<100

CK-3	2/14/08	4/27/10	12/13/10
DTW			
Benzene	21	13	18
Toluene	54	38	39
Ethylbenzene	10	7	8
Xylenes	62	37	42
MTBE	<40	19	28
Naphthalene	4	<5	4
Lead	na	na	na
DCA	na	<5	<5
EDB	na	<0.02	na
DIPE	na	<5	<5
TAA	na	<100	<100
TAME	na	<10	<10
TBA	na	<100	<100

WSW-1	2/14/08	4/27/10	12/13/10
DTW			
Benzene	<1	ns	<5
Toluene	<1		<5
Ethylbenzene	<1		<5
Xylenes	<3		<10
MTBE	<1		<5
Naphthalene	<2		<5
Lead	na		na
DCA	na		<5
EDB	na		na
DIPE	na		<5
TAA	na		<100
TAME	na		<10
TBA	na		<100

FP- free-phase product

na- not analyzed

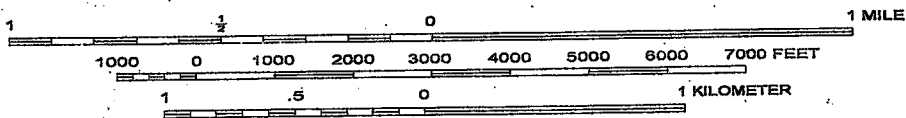
nd- not detected

nm- not measured

ns- not sampled



SCALE 1:24000



SALEM QUADRANGLE
 SOUTH CAROLINA-OCONEE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)
 BY U.S. GEOLOGICAL SURVEY

SEI Environmental, Inc.

FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCER
 13527 Highway 11, Salem, SC
 FACILITY I.D. #03439

WO # 302169
 DWG # Hw 11_topo_sitemap

DATE: 9/16/05
 DRAWN BY: HWH

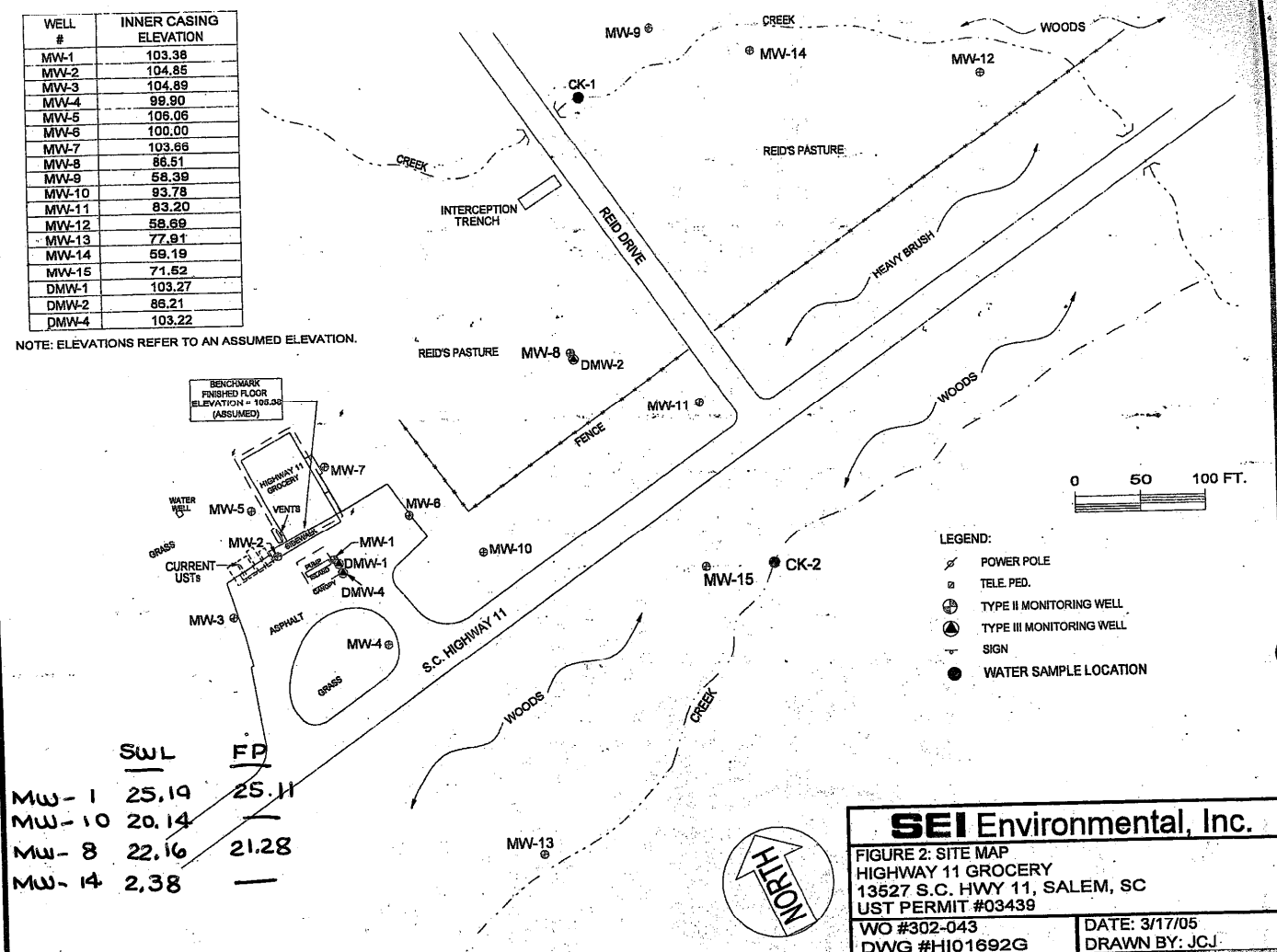
4/30/08 Gauging Event - J. Redgett, C. Doll

71-1096

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	99.90
MW-5	106.06
MW-6	100.00
MW-7	103.66
MW-8	86.51
MW-9	58.39
MW-10	93.78
MW-11	83.20
MW-12	58.69
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	86.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 105.00
(ASSUMED)



	SWL	FP
MW-1	25.19	25.11
MW-10	20.14	—
MW-8	22.16	21.28
MW-14	2.38	—

SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043 DATE: 3/17/05
 DWG #H101692G DRAWN BY: JCJ

RECEIVED

Joel
NOV 29 2007

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #03439

UNDERGROUND STORAGE
TANK PROGRAM

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, Steven Smith, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize SCDHEC, or a contractor selected by SCDHEC, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. The contractor(s) will be designated as my contractor for only the required site rehabilitation activities. Compensation to the contractor(s) will be from the SUPERB Account and I will have no obligation to pay the contractor(s). I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Bureau of Underground Storage Tank Management in writing.

Name of Facility Hwy 11 Grocery Phone # 864 944-0494

Street Address of Facility 13527 N Hwy 11

Town, City, District, Suburb Salem SC 29676

Name of nearest intersecting street, road, highway, alley
SC Hwy 11 / 130

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines Steven Smith,
phone number 944 - 0494

Were underground storage tanks previously removed from the ground at this facility? (yes or no) NO
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation _____
Phone number _____

Is the property currently leased or rented to someone? (yes or no) NO. If yes, please provide their name _____ and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of UST/property owner (Please Print): Steven Smith

Phone Number (home) _____ (work) 864 944 0494

Signature of UST/property Owner: Steven M Smith

Witness: Elaine C Spe

Date: 11 Month 28 Day 2007 Year

UST PRO DOCKETING # **SCANNED**



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received November 7, 2007
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The Program notes that the AFVR events conducted on monitoring wells MW-1 and MW-8 were effective in removing free-phase product based upon reported off-gas measurements. However, as product persists in MW-8 and has emerged in MW-14, continued AFVR events are warranted. Please have your contractor focus AFVR events on MW-8 and, in particular, MW-14 as this well is adjacent to the creek. Also, please include creek sample CK-3 in the sampling protocol since this location is downstream from MW-14.

Based upon the current data, the Program calculates a -1.42% reduction in total concentrations of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). Please note that the calculation uses the last known concentrations for MW-1, which was not sampled during the August 2007 monitoring event. The low reduction is a result of the emergence of free-phase product in MW-14.

The next CASE report documenting the December monitoring event and quarterly AFVR events is due on or before **February 1, 2008**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

UST PROGRAM
DOCKETING # 5

JPP/jpp
03439.15

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite #108,
Raleigh, NC 27603 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAR 27 2007

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action Plan (CAP) Addendum received March 22, 2007
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has received the referenced Corrective Action Plan (CAP) Addendum. Per the Addendum, your contractor will conduct Aggressive Fluid and Vapor Recovery (AFVR) events quarterly in conjunction with required groundwater sampling. The Program also notes that your contractor will evaluate the existing hydrogen peroxide system to determine what repairs are necessary to place it back into operation.

As the proposed remediation technologies have previously been placed on public notice, SEI Environmental, Inc. may proceed with implementation of the Addendum. Per correspondence to you dated March 5, 2007, the next corrective action system evaluation (CASE) report is due on or before **August 1, 2007**.

On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.13

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite #108, Raleigh, NC 27603
James W. Reid, 185 Reid Drive, Salem, SC 29676
Technical file

DHEC/UST/JPP/032707



130 Penmarc Drive, Suite 108
Raleigh, NC 27603
919.832.2535
Fax 919.832.5914

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NAR 22 2007

**UNDERGROUND STORAGE
TANK PROGRAM**

March 16, 2007

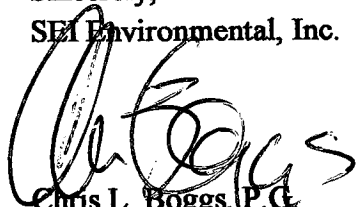
Mr. Joel P. Padgett, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Assessment & Corrective Action Section, Underground Storage Tank Program
2600 Bull Street
Columbia, South Carolina 29201

**RE: Corrective Action Plan Addendum
Highway 11 Grocery
13527 North SC Highway 11
Salem, Oconee County, South Carolina
UST Permit Number: 03439
SEI Project Number: 302169**

Dear Mr. Padgett:

In order to address the free product at the above referenced site SEI Environmental will conduct AFVR events in conjunction with quarterly groundwater sampling at the site. Quarterly sampling events are scheduled for February, May August, and November. In addition, SEI Environmental is evaluating the existing hydrogen peroxide system to determine what repairs are required to bring it back into operation. If you have any questions or comments, please contact me at (919) 832-2535.

Sincerely,
SEI Environmental, Inc.



Chris L. Boggs, P.G.
Project Manager

cc: Mr. John Smith, Highway 11 Grocery



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAR 05 2007

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received March 2, 2007
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. Based upon the current data, the Program calculates a **-0.08%** reduction in total concentrations of chemicals of concern (CoC) across the site. Please note use of the **correct** saturation values for free-phase product (those used in the original bid solicitation). Please have your contractor amend their CoC tables and concentration reduction calculations accordingly.

The report documents the presence of free-phase product in monitoring wells MW-1 and MW-8. As this likely contributes to elevated CoC levels in creek samples CK-1 and CK-3, your contractor's recommendation to continue quarterly monitoring only is unacceptable. Therefore, the Program requests that your contractor submit a Corrective Action Plan (CAP) Addendum that presents a technology and timetable for removal of free-phase product at the site. The CAP Addendum is due within **thirty (30) days** of the date of this letter. **Failure to submit the Addendum will result in a Notice of Violation and potential enforcement action.**

The next CASE report for the June 2007 quarterly sampling event is due on or before **August 1, 2007**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhc.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.12

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite #108,
Raleigh, NC 27603 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)

03439 Highway 11 Grocery

2/7/07 sampling

Enter Initial, SSTL and subsequent

CoC Reduction: %

Well		Benzene	Toluene	Ethylbenzene	Xylene	MtBE	Naphthalene	EDB	Totals
MW-1	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	22	4497	3148	44969	180	112	0	52928
	Initial > SSTL	225978	296503	276852	233031	5109820	1888	0	6144072
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSTL	225978	296503	276852	233031	5109820	1888	0	6144072
MW-2	Initial	13	8	1	5	5	5	0	37
	SSTL	13	8	1	5	5	5	0	37
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	7	2	1	3	1	2	0	16
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-3	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-4	Initial	1500	5320	620	3360	810	500	0	12110
	SSTL	1500	5320	620	3360	810	500	0	12110
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	25	59	13	67	47	2	0	213
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-5	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-6	Initial	1780	4950	490	2880	6350	500	0	16950
	SSTL	1780	4950	490	2880	6350	500	0	16950
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	4970	18100	2070	12000	30500	500	0	68140
	Subsequent > SSTL	3190	13150	1580	9120	24150	0	0	51190
MW-7	Initial	34	20	1	8	7	5	0	75
	SSTL	22	20	1	8	7	5	0	63
	Initial > SSTL	12	0	0	0	0	0	0	12
	Subsequent	182	261	13	202	19	2	0	679
	Subsequent > SSTL	160	241	12	194	12	0	0	619
MW-8	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	204	40888	28622	278000	1362	1021	0	350097
	Initial > SSTL	225796	260112	251378	0	5108638	979	0	5846903
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSTL	225796	260112	251378	0	5108638	979	0	5846903
MW-10	Initial	115	185	68	328	86	9	0	791
	SSTL	115	185	68	328	86	9	0	791
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	376	1080	454	2440	507	83	0	4940
	Subsequent > SSTL	261	895	386	2112	421	74	0	4149
MW-11	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	9	1	2	0	15
	Subsequent > SSTL	0	0	0	8	0	0	0	8
MW-14	Initial	3780	13800	27000	14700	7010	500	0	66790
	SSTL	5	1000	700	10000	40	25	0	11770
	Initial > SSTL	3775	12800	26300	4700	6970	475	0	55020
	Subsequent	2010	4080	1180	6320	3320	261	0	17171
	Subsequent > SSTL	2005	3080	480	0	3280	236	0	9081

03439 Highway 11 Grocery

<u>Total Concentration Reduction</u>	<u>Individual Constituent Reductions</u>					
Total Initial Conc. : 12493598 µg/L	CoC	Initial	Subseq.	Initial >SSTL	Subseq. > SSTL	CoC % Reduction
Total Subsequent Conc. : 12485400 µg/L	Benzene	459442	459584	455561	457390	-0.401483007
Total SSTL Conc. : 447591 µg/L	Toluene	626718	625589	569415	573981	-0.801875609
Initial > SSTL : 12046007 µg/L	Ethylbenzene	588235	563737	554530	530688	4.299496871
Subsequent > SSTL : 12056030 µg/L	Xylenes	577336	577063	237731	244473	-2.83597848
Total Reduction: -0.0832 %	MtBE	10236073	10254583	10225428	10246321	-0.204323966
	Naphthalene	5794	4864	3342	3177	4.937163375
	EDB	0	0	0	0	non-SSTL CoC



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

DEC 08 2006

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received December 4, 2006
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The report documents completion of an AFVR event on monitoring wells MW-1 and MW-8, and abandonment of the interceptor trench located on adjacent property owned by Mr. James Reid. The Program notes that free-phase product persists in MW-1 and MW-8, and therefore recommends that AFVR events be continued at the site.

Based upon the current data, the Program calculates a **0.38%** reduction in the total concentration of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). The 85.65% reduction cited by your contractor does not factor in the correct CoC saturation values for free-phase product (those used in the original bid solicitation) or the last reported values for monitoring well MW-14 (not located during the last sampling event).

The next CASE report for the February 2007 quarterly sampling event is due on or before **April 2, 2006**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhc.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.11

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite #108,
Raleigh, NC 27603 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)

03439 Highway 11 Grocery

8/28/06 sampling

Enter Initial, SSSL and subsequent

CoC Reduction: 0.3777 %

Well		Benzene	Toluene	Ethylbenzene	Xylene	MtBE	Naphthalene	EDB	Totals
MW-1	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSSL	22	4497	3148	44969	180	112	0	52928
	Initial > SSSL	225978	296503	276852	233031	5109820	1888	0	6144072
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSSL	225978	296503	276852	233031	5109820	1888	0	6144072
MW-2	Initial	13	8	1	5	5	5	0	37
	SSSL	13	8	1	5	5	5	0	37
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	8	1	1	3	1	2	0	16
	Subsequent > SSSL	0	0	0	0	0	0	0	0
MW-3	Initial	1	1	1	1	5	5	0	14
	SSSL	1	1	1	1	5	5	0	14
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSSL	0	0	0	2	0	0	0	2
MW-4	Initial	1500	5320	620	3360	810	500	0	12110
	SSSL	1500	5320	620	3360	810	500	0	12110
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	195	24	19	184	225	12	0	659
	Subsequent > SSSL	0	0	0	0	0	0	0	0
MW-5	Initial	1	1	1	1	5	5	0	14
	SSSL	1	1	1	1	5	5	0	14
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSSL	0	0	0	2	0	0	0	2
MW-6	Initial	1780	4950	490	2880	6350	500	0	16950
	SSSL	1780	4950	490	2880	6350	500	0	16950
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	34	61	2	194	355	20	0	666
	Subsequent > SSSL	0	0	0	0	0	0	0	0
MW-7	Initial	34	20	1	8	7	5	0	75
	SSSL	22	20	1	8	7	5	0	63
	Initial > SSSL	12	0	0	0	0	0	0	12
	Subsequent	50	44	1	23	2	2	0	122
	Subsequent > SSSL	28	24	0	15	0	0	0	67
MW-8	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSSL	204	40888	28622	278000	1362	1021	0	350097
	Initial > SSSL	225796	260112	251378	0	5108638	979	0	5846903
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSSL	225796	260112	251378	0	5108638	979	0	5846903
MW-10	Initial	115	185	68	328	86	9	0	791
	SSSL	115	185	68	328	86	9	0	791
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	203	412	67	226	137	5	0	1050
	Subsequent > SSSL	88	227	0	0	51	0	0	366
MW-11	Initial	1	1	1	1	5	5	0	14
	SSSL	1	1	1	1	5	5	0	14
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	3	1	1	9	5	2	0	21
	Subsequent > SSSL	2	0	0	8	0	0	0	10
MW-14	Initial	3780	13800	27000	14700	7010	500	0	66790
	SSSL	5	1000	700	10000	40	25	0	11770
	Initial > SSSL	3775	12800	26300	4700	6970	475	0	55020
	Subsequent	2010	4080	1180	6320	3320	261	0	17171
	Subsequent > SSSL	2005	3080	480	0	3280	236	0	9081

03439 Highway 11 Grocery

<u>Total Concentration Reduction</u>	<u>Individual Constituent Reductions</u>					
Total Initial Conc. : 12493598 µg/L	CoC	Initial	Subseq.	Initial >SSTL	Subseq. > SSTL	CoC % Reduction
Total Subsequent Conc. : 12413840 µg/L	Benzene	459442	454508	455561	453897	0.365263927
Total SSTL Conc. : 447591 µg/L	Toluene	626718	606628	569415	559946	1.662934766
Initial > SSTL : 12046007 µg/L	Ethylbenzene	588235	561276	554530	528710	4.656195337
Subsequent > SSTL : 12000507 µg/L	Xylenes	577336	562974	237731	233062	1.963984503
Total Reduction: 0.37772 %	MtBE	10236073	10224140	10225428	10221789	0.035587752
	Naphthalene	5794	4314	3342	3103	7.151406344
	EDB	0	0	0	0	non-SSTL CoC

03439

From: Joel P. Padgett
To: Boggs, Chris
Date: 11/20/2006 10:56:30 AM
Subject: Re: FW: Reid Property

Chris-

I have reviewed the analytical data for the water sample collected 10/19/06 from the trench located on Mr. Reid's property. All chemicals of concern are below the risk-based screening levels (Federal MCLs for drinking water). Accordingly, SEI Environmental may proceed with the trench abandonment and discharge the water into the nearby creek provided that: 1) SEI has permission to proceed from the landowner, Mr. James Reid, and, 2) no suspended particulates (i.e silt, clay) are entrained in the discharge water. Please feel free to contact me by phone or e-mail if you have any questions.

-Joel

>>> "Chris Boggs" <cboggs@sei-environmental.com> 11/16/2006 3:29 PM >>>

> -----Original Message-----

> From: Chris Boggs
> Sent: Thursday, November 16, 2006 3:28 PM
> To: 'padgettj@dhsc.sc.com'
> Subject: FW: Reid Property

>

>

>

> -----Original Message-----

> From: Chris Boggs
> Sent: Wednesday, November 15, 2006 11:05 AM
> To: 'jpadgett@dhsc.sc.gov'
> Subject: Reid Property

>

> Per our conversation here are analytical results for the water sample collected from the trench on the Reid property.

>

> Thanks

> Chris

> > <<f44643 trench water.pdf>>

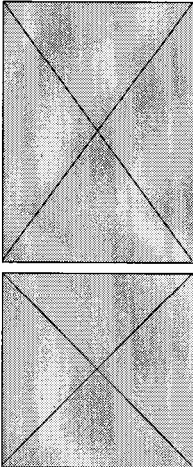
CC: Block, Susan E.

*e-Hardcopy 2.0
Automated Report*



IT'S ALL IN THE CHEMISTRY

11/15/06



Technical Report for

SEI-Charlotte , NC

James Reid Property/trench, 185 Reid Dr, Salem, SC

Accutest Job Number: F44643

Sampling Date: 10/19/06

Report to:

SEI Environmental-Ra leigh

cboggs@sei- environmental.co m

ATTN: Chris Boggs

Total number of pages in report: 8



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

Harry Behzadi
**Harry Behzadi, Ph.D.
Laboratory Director**

Certifications FL (DOH E83510), NC (573) NJ (FL002) MA (FL946) JA (386) LA (03051) KS (E-10327) SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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Section 3: Misc. Forms	6
3.1: Chain of Custody	7

Sections:



Accutest LabLink@56472 10:52 15-Nov-2006



Sample Summary

SEI-Cha rlotte, NC

Job No: F44643

James Reid Property/trench, 185 Reid Dr, Salem, SC

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F44643-1	10/19/06	11:00 SS	10/21/06	AQ	Ground Water	TRENCH



IT'S ALL IN THE CHEMISTRY

Section 2

2

Sample Results

Report of Analysis

Accutest LabLink@56472 10:52 15-Nov-2006

2.1
2

Report of Analysis

Page 1 of 1

Client Sample ID:	TRENCH	Date Sampled:	10/19/06
Lab Sample ID:	F44643-1	Date Received:	10/21/06
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	James Reid Property/trench, 185 Reid Dr, Salem, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B042081.D	1	10/23/06	KW	n/a	n/a	VB17 78
Run #2							

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

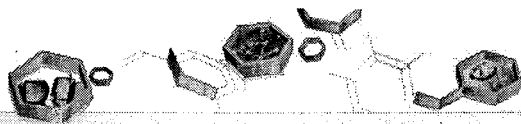
Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	5.8	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	3.9	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		86-115%
17060-07-0	1,2-Dichloroethane-D4	88%		73-126%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	93%		83-119%

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

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



Section 3

IT'S ALL IN THE CHEMISTRY



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

Chain of Custody

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44643 CLIENT: SEI PROJECT: Trench
DATE/TIME RECEIVED: 10/24/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 9.2
METHOD OF DELIVERY: SEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
AIRBILL NUMBERS: 8836 3068 2483

- COOLER INFORMATION**
- CUSTODY SEAL NOT PRESENT OR NOT INTACT
 - CHAIN OF CUSTODY NOT RECEIVED (COC)
 - ANALYSIS REQUESTED IS UNCLEAR OR MISSING
 - SAMPLE DATES OR TIMES UNCLEAR OR MISSING
 - TEMPERATURE CRITERIA NOT MET

- TRIP BLANK INFORMATION**
- TRIP BLANK PROVIDED
 - TRIP BLANK NOT PROVIDED
 - TRIP BLANK NOT ON COC
 - TRIP BLANK INTACT
 - TRIP BLANK NOT INTACT
 - RECEIVED WATER TRIP BLANK
 - RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5055 FIELD KITS ? 2

NUMBER OR LAB FILTERED METALS ? 26

- SAMPLE INFORMATION**
- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
 - CORRECT NUMBER OF CONTAINERS USED
 - SAMPLE RECEIVED IMPROPERLY PRESERVED
 - INSUFFICIENT VOLUME FOR ANALYSIS
 - TIMES ON COC DOES NOT MATCH LABEL(S)
 - ID'S ON COC DOES NOT MATCH LABEL(S)
 - VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
 - BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
 - NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
 - UNCLEAR FILTERING INSTRUCTIONS
 - UNCLEAR COMPOSITING INSTRUCTIONS
 - SAMPLE CONTAINER(S) RECEIVED BROKEN
 - % SOLIDS JAR NOT RECEIVED
 - 5055 FIELD KIT NOT FROZEN WITHIN 48 HOURS
 - RESIDUAL CHLORINE PRESENT
- (APPLICABLE TO EPA 800 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [Signature] 10/24/06 TECHNICIAN SIGNATURE/DATE _____ ASD 10/03/06

3.1
65

F44643: Chain of Custody
Page 2 of 2



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

OCT 09 2006

MR CHRIS BOGGS PG
SEI ENVIRONMENTAL INC
130 PENMARC DR STE 108
RALEIGH NC 27603-2434

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; Cost Agreement #28113
Solicitation for abandonment of recovery trench received April 20, 2006
Oconee County

Dear Mr. Boggs:

The Underground Storage Tank (UST) Program has reviewed the referenced solicitation submitted by SEI Environmental, Inc. The Program accepts your price quotation for abandonment of the recovery trench located on property adjacent to Highway 11 Grocery.

Cost Agreement #28113 has been approved in the amount of \$5,344.05 and will be kept on file for payment from the SUPERB Account. Trench abandonment activities may proceed upon receipt of this letter. Please contact the adjacent property owner, Mr. James W. Reid, at (864) 944-0360 to coordinate the necessary property access prior to initiating work. SCDHEC reserves the authority to pay only for work properly performed and/or technically justified. Further, SCDHEC 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 the work.

An invoice and brief report documenting the trench abandonment activities must be submitted within 120 days of the date of this letter. Please reference Cost Agreement #28113 on the invoice and any supporting documentation submitted for the work. A completed W-9 form will be necessary to process your invoice for payment. The W-9 form and invoice form have been enclosed for your convenience. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed unless prior approval from the Department is obtained. If for any reason there is a change in the proposed scope of work, the change must be pre-approved by the Department in order for SEI Environmental to seek additional payment from SUPERB.

On all correspondence concerning this site, please reference UST Permit #03439. If there are any questions concerning this correspondence, please feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhc.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.10

enc: W-9 form
Assessment Component Invoice form

cc: Steven Smith, 180 Shallow Ford Rd., Salem, SC 29676 (w/o enc)
James W. Reid, 185 Reid Dr., Salem, SC 29203 (w/o enc)
Technical file (w/enc)

Approved Cost Agreement 113

Facility: 03439 HWY 11 GROCERY

PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
18 MISCELLANEOUS		INTERCEPTOR TRENCH ABANDONMENT	1.0000	5,344.05	5,344.05
			Total Amount		5,344.05



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

OCT 03 2006

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received September 25, 2006
Notice of Alleged Violation
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The report indicates that free-phase product has increased in monitoring well MW-8 and reemerged in monitoring well MW-1. The Program notes that your contractor did not conduct AFVR events on either well during the last monitoring period as proposed in the CASE report received on May 1, 2006. As the continued presence of free-phase product in the wells is contributing to the on-going contamination noted in creek sample CK-1, the Program requests that your contractor implement the measures proposed in the referenced CASE report, and CASE reports received on December 28, 2005, and May 1, 2006 (AFVR events on MW-1, MW-8, MW-10, MW-14). A report documenting the AFVR events must be submitted to the Program on or before **December 2, 2006**. Failure to do so will result in referral to enforcement.

The Program has not received the two additional bids (or statements of no bid) requested in correspondence to you added contractor for abandonment of the recovery trench on Mr. Reid's property requested in correspondence to you dated May 17, 2006. The bids must be submitted to the Program by **December 2, 2006**. Failure to do so will result in referral to enforcement.

Based upon the current data, the Program calculates a 0.38% reduction in the total concentration of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). As noted in previous correspondence you dated December 29, 2005 and May 16, 2006, the CoC saturation values used in the reduction calculation must be the same as those reported in the bid solicitation (i.e. 226,000 ug/l for benzene, 301,000 ug/l for toluene, etc.).

The Program notes that the referenced CASE report was due on July 3, 2006. Please have your contractor adhere to a quarterly schedule as outlined in the bid specification. To maintain the required schedule, the next sampling event should be conducted in November 2006 with a CASE report due no later than January 2, 2006. On all correspondence regarding this site, please reference

UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgetjp@dhec.sc.gov.

Sincerely,



Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.8

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite 108, Raleigh, NC
27603-2434 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)

03439 Highway 11 Grocery

8/28/06 sampling

Enter Initial, SSSL and subsequent

CoC Reduction: 0.3776 %

Well		Benzene	Toluene	Ethylbenzene	Xylene	MtBE	Naphthalene	EDB	Totals
MW-1	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSSL	22	4497	3148	44969	180	112	0	52928
	Initial > SSSL	225978	296503	276852	233031	5109820	1888	0	6144072
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSSL	225978	296503	276852	233031	5109820	1888	0	6144072
MW-2	Initial	13	8	1	5	5	5	0	37
	SSSL	13	8	1	5	5	5	0	37
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	32	3	1	4	1	2	0	43
	Subsequent > SSSL	19	0	0	0	0	0	0	19
MW-3	Initial	1	1	1	1	5	5	0	14
	SSSL	1	1	1	1	5	5	0	14
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSSL	0	0	0	2	0	0	0	2
MW-4	Initial	1500	5320	620	3360	810	500	0	12110
	SSSL	1500	5320	620	3360	810	500	0	12110
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	43	7	4	88	153	4	0	299
	Subsequent > SSSL	0	0	0	0	0	0	0	0
MW-5	Initial	1	1	1	1	5	5	0	14
	SSSL	1	1	1	1	5	5	0	14
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSSL	0	0	0	2	0	0	0	2
MW-6	Initial	1780	4950	490	2880	6350	500	0	16950
	SSSL	1780	4950	490	2880	6350	500	0	16950
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	99	76	2	243	22	4	0	446
	Subsequent > SSSL	0	0	0	0	0	0	0	0
MW-7	Initial	34	20	1	8	7	5	0	75
	SSSL	22	20	1	8	7	5	0	63
	Initial > SSSL	12	0	0	0	0	0	0	12
	Subsequent	99	95	4	127	7	2	0	334
	Subsequent > SSSL	77	75	3	119	0	0	0	274
MW-8	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSSL	204	40888	28622	278000	1362	1021	0	350097
	Initial > SSSL	225796	260112	251378	0	5108638	979	0	5846903
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSSL	225796	260112	251378	0	5108638	979	0	5846903
MW-10	Initial	115	185	68	328	86	9	0	791
	SSSL	115	185	68	328	86	9	0	791
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	79	98	16	69	169	2	0	433
	Subsequent > SSSL	0	0	0	0	83	0	0	83
MW-11	Initial	1	1	1	1	5	5	0	14
	SSSL	1	1	1	1	5	5	0	14
	Initial > SSSL	0	0	0	0	0	0	0	0
	Subsequent	6	1	1	83	4	2	0	97
	Subsequent > SSSL	5	0	0	82	0	0	0	87
MW-14	Initial	3780	13800	27000	14700	7010	500	0	66790
	SSSL	5	1000	700	10000	40	25	0	11770
	Initial > SSSL	3775	12800	26300	4700	6970	475	0	55020
	Subsequent	2010	4080	1180	6320	3320	261	0	17171
	Subsequent > SSSL	2005	3080	480	0	3280	236	0	9081

03439 Highway 11 Grocery

<u>Total Concentration Reduction</u>	<u>Individual Constituent Reductions</u>					
Total Initial Conc. : 12493598 µg/L	CoC	Initial	Subseq.	Initial >SSTL	Subseq. > SSTL	CoC % Reduction
Total Subseqent Conc. : 12412887 µg/L	Benzene	459442	454373	455561	453880	0.36899559
Total SSTL Conc. : 447591 µg/L	Toluene	626718	606365	569415	559770	1.693843682
Initial > SSTL : 12046007 µg/L	Ethylbenzene	588235	561213	554530	528713	4.655654338
Subsequent > SSTL : 12000527 µg/L	Xylenes	577336	562949	237731	233240	1.88910996
Total Reduction: 0.37755 %	MtBE	10236073	10223700	10225428	10221821	0.035274807
	Naphthalene	5794	4287	3342	3103	7.151406344
	EDB	0	0	0	0	non-SSTL CoC



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAY 17 2006

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received May 1, 2006
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The Program notes that free-phase product (FPP) has decreased in monitoring well MW-8 and was not detected in monitoring well MW-1. However, the toluene concentration in MW-1 exceeds the effective solubility limit for gasoline indicating that FPP may still be present. The Program concurs with your contractor's proposal to conduct aggressive fluid and vapor recovery events on monitoring wells MW-1, MW-8, MW-10, and MW-14 to remove FPP and reduce CoC concentrations.

The Program has received one bid through your contractor for abandonment of the recovery trench on Mr. Reid's property. Please note that two more written bids from different solicitors will be necessary to meet SC procurement requirements.

Based upon the current data, the Program calculates a 49.91% reduction in the total concentration of chemicals of concern (CoC) across the site (see enclosed CoC reduction calculation sheets). Again, as mentioned in correspondence to you dated December 29, 2005, please note that the CoC saturation values used in the reduction calculation must be the same as those reported in the bid solicitation (i.e. 226,000 ug/l for benzene, 301,000 ug/l for toluene, etc.).

The next CASE report for the May 2006 quarterly sampling event is due on or before **July 3, 2006**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettjp@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.8

enc: CoC reduction calculation sheets

cc: Chris Boggs, P.G., SEI Environmental, Inc., 6190 Regency Parkway, Suite #308,
Norcross, GA 30071 (w/enc)
James W. Reid, 185 Reid Drive, Salem, SC 29676 (w/enc)
Technical file (w/o enc)

03439 Highway 11 Grocery

Enter Initial, SSTL and subsequent

CoC Reduction: 49.9126 %

Well		Benzene	Toluene	Ethylbenzene	Xylene	MtBE	Naphthalene	EDB	Totals
MW-1	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	22	4497	3148	44969	180	112	0	52928
	Initial > SSTL	225978	296503	276852	233031	5109820	1888	0	6144072
	Subsequent	20700	41100	3100	11700	103000	4000	0	183600
	Subsequent > SSTL	20678	36603	0	0	102820	3888	0	163989
MW-2	Initial	13	8	1	5	5	5	0	37
	SSTL	13	8	1	5	5	5	0	37
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	12	4	1	3	1	2	0	23
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-3	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-4	Initial	1500	5320	620	3360	810	500	0	12110
	SSTL	1500	5320	620	3360	810	500	0	12110
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-5	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-6	Initial	1780	4950	490	2880	6350	500	0	16950
	SSTL	1780	4950	490	2880	6350	500	0	16950
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1280	3480	399	2880	8600	200	0	16839
	Subsequent > SSTL	0	0	0	0	2250	0	0	2250
MW-7	Initial	34	20	1	8	7	5	0	75
	SSTL	22	20	1	8	7	5	0	63
	Initial > SSTL	12	0	0	0	0	0	0	12
	Subsequent	27	42	4	24	1	2	0	100
	Subsequent > SSTL	5	22	3	16	0	0	0	46
MW-8	Initial	226000	301000	280000	278000	5110000	2000	0	6197000
	SSTL	204	40888	28622	278000	1362	1021	0	350097
	Initial > SSTL	225796	260112	251378	0	5108638	979	0	5846903
	Subsequent	226000	301000	280000	278000	5110000	2000	0	6197000
	Subsequent > SSTL	225796	260112	251378	0	5108638	979	0	5846903
MW-10	Initial	115	185	68	328	86	9	0	791
	SSTL	115	185	68	328	86	9	0	791
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	1	2	0	9
	Subsequent > SSTL	0	0	0	0	0	0	0	0
MW-11	Initial	1	1	1	1	5	5	0	14
	SSTL	1	1	1	1	5	5	0	14
	Initial > SSTL	0	0	0	0	0	0	0	0
	Subsequent	1	1	1	3	2	2	0	10
	Subsequent > SSTL	0	0	0	2	0	0	0	2
MW-14	Initial	3780	13800	27000	14700	7010	500	0	66790
	SSTL	5	1000	700	10000	40	25	0	11770
	Initial > SSTL	3775	12800	26300	4700	6970	475	0	55020
	Subsequent	3290	10600	1820	11000	4950	400	0	32060
	Subsequent > SSTL	3285	9600	1120	1000	4910	375	0	20290

03439 Highway 11 Grocery

<u>Total Concentration Reduction</u>	<u>Individual Constituent Reductions</u>					
Total Initial Conc. : 12493598 µg/L	CoC	Initial	Subseq.	Initial >SSTL	Subseq. > SSTL	CoC % Reduction
Total Subsequent Conc. : 6429867 µg/L	Benzene	459442	251319	455561	249764	45.17441133
Total SSTL Conc. : 447591 µg/L	Toluene	626718	356268	569415	306337	46.20145237
Initial > SSTL : 12046007 µg/L	Ethylbenzene	588235	285347	554530	252501	54.4657638
Subsequent > SSTL : 6033530 µg/L	Xylenes	577336	303720	237731	1068	99.55075274
Total Reduction: 49.9126 %	MtBE	10236073	5226582	10225428	5218618	48.96430741
	Naphthalene	5794	6631	3342	5242	-56.85218432
	EDB	0	0	0	0	non-SSTL CoC

D H E C



PROMOTE PROTECT PROSPER

South Carolina Department of Health
and Environmental Control

FAX MESSAGE

2600 Bull Street
Columbia, SC 29201-1708

Date: 3/31/06

Number of Pages Including Cover Sheet: 2

Please Deliver This Fax Message

TO:

Cary

Name

Poliakoff & Assoc

Organization/Department

(864) 582-5472 582-7280

Fax Number

Phone Number

FROM:

Joel Padgett

**Bureau of Land & Waste Management
Underground Storage Tank Program**

Fax Number
(803) 896-6245

Regulatory Phone
(803) 896-7957

Technical Phone
(803) 896-6241

SUBJECT/COMMENT:



NOTICE

State of South Carolina
Department of Health and Environmental Control
Columbia, South Carolina

Public Notice #03439-01: Hwy 11 Grocery 03439

Date: 1/17/03

NOTICE OF PROPOSED CORRECTIVE ACTION

Section 280.67 of the S.C. Underground Storage Tank Control Regulations (R.61-92) requires that any Corrective Action Plan prepared to meet the requirements of 280.66 must be placed on notice for public comment. The following applicant has submitted a Corrective Action Plan for the rehabilitation of groundwater contaminated by petroleum constituents released from underground storage tanks (USTs).

Applicant: Hwy 11 Grocery, 13527 N Hwy. 11, Salem, SC 29506. The Hwy 11 Grocery has four USTs used for storage of petroleum products. The facility is located at 13527 N Hwy. 11, in Oconee County, South Carolina.

Corrective Action will consist of vacuum extraction and bioremediation. These corrective action activities will be followed by Intrinsic Remediation/Natural Attenuation for the rehabilitation of ground water contaminated by petroleum constituents released from underground storage tanks. Vacuum extraction is a technology in which air is suctioned from the subsurface utilizing a mechanical pump for the purpose of removing contaminants by volatilization and controlling the potential migration of vapors. Bioremediation is a technology where the addition of nutrients enhances the biological degradation of the petroleum product.

A copy of the Corrective Action Plan is available for review at the Department's Freedom of Information Office, 2600 Bull Street in Columbia, SC. Please call (803) 898-3882 to schedule an appointment.

Persons wishing to comment upon or object to Corrective Action approval are invited to submit same in writing within fifteen (15) days of the date of this notice to South Carolina Department of Health and Environmental Control, Underground Storage Tank Program, 2600 Bull Street, Columbia, S.C. 29201 or call Konstantine Akhvlediani at (803) 896-6647. The public notice #03439-01 should be placed at the top of the first page of comments. Where there is a significant degree of public interest, the Department will hold a public hearing.

Please bring the foregoing to the attention of persons who you know will be interested in this matter.



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JAN 05 2006

MR HARTFORD HIGHT PG
SEI ENVIRONMENTAL INC
6190 REGENCY PKWY STE 308
NORCROSS, GA 30071

Re: Pay For Performance Corrective Action Projects
Proposed Reporting Schedule received December 12, 20051

Dear Mr. Hight:

Thank you for providing the proposed reporting schedule. The schedule has been reviewed by our project managers and is approvable as submitted with one exception.

For the Perry's Grocery project (UST Permit ID# 03426, SEI Project No. 303196) semi-annual sampling and reporting was proposed. Because this corrective action is being augmented with the use of the Potassium Triple Salt, the Department would like to reports submitted on a quarterly basis to better characterize the effect of the new technology.

The UST Program appreciates SEI's efforts to get these projects back on track. We look forward to working with you in the near future to bring these sites to closure. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

Cc: Technical Files (11585, 03713, 14457, 09322, 03467, 11732, 14839, 06601, 02476, 08327, 09160, 14433, 14561, 03439, 05981, 02427, 03426, 14541, 04031, 09319, 03462, 03463, 09370, 08376, 02542, 08551, 02724, 04744, 11756)

Lee Monts, Manager, Southwestern SC Corrective Action Section
Kent Coleman, P. G., Director, Assessment and Corrective Action Division

DHEC/UST/010506



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

DEC 30 2005

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received December 28, 2005
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report. The Program notes that free-phase product (FPP) has dramatically increased in monitoring well MW-8. As the FPP in MW-8 likely contributes to increasing concentrations of chemicals of concern (CoC) in creek sample CK-1, it is imperative for your contractor to take aggressive steps to remove it. Further, the Program requests that SEI submit a cost estimate for abandonment of the interceptor trench located north of MW-8 on property owned by Mr. J.W. Reid. As the trench was installed prior corrective action as an emergency abatement measure, abandonment costs are not associated with the corrective action bid solicitation.

Based upon the current data, the Program calculates a -.33% reduction in the total concentration of chemicals of concern (CoC) across the site. Please note that the CoC saturation values used in the reduction calculation must be the same as those reported in the bid solicitation (i.e. 226,000 ug/l for benzene, 301,000 ug/l for toluene, etc.).

The next CASE report for the February 2006 quarterly sampling event is due on or before **April 3, 2006**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettjp@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.7

cc: Hartford W. Hight, P.G., SEI Environmental, Inc., 6190 Regency Parkway, Suite #308,
Norcross,
GA 30071
James W. Reid, 185 Reid Drive, Salem, SC 29676
Technical file



PROMOTE PROTECT PROSPER
 South Carolina Department of
 Health and Environmental Control

Report On Records Destroyed

Records and Forms Management Unit (UST Program ONLY)

1. Return this form to:
 DHEC Forms Manager-Heritage Building
 1777 St. Julian Place
 Columbia, SC 29204

The records listed below have been disposed of in accordance with provisions of the Public Records Act, Code of Laws of South Carolina, 1976, Sections 30-1-10 through 30-1-140, as amended, and approved Records Retention Schedules.

2. Signature: Joe P. O. O.

3. Date: 12/2/05

Records Officer signature:

4. Record Series Titles	5. Record Series #	6. Inclusive Dates	7. Volume (cubic footage)	8. Date of Destruction
Monitoring report	13300	2005	.01	12/2/05
*Documents put in recycle box on date of destruction.			9)	Total cubic Feet destroyed .01

SITE ID # 03439
 REVIEWED BY J. Padgett

FACILITY NAME: Highway 11 Grocery



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

SEP 29 2005

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received September 26, 2005
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program has reviewed the referenced report and concurs with your contractor's recommendation to continue AFVR events on MW-8. Reduction of free-phase product in this well will help reduce concentrations of chemicals of concern (CoC) in monitoring well MW-14 and in the creek at sample locations CK-1 and CK-3. The Program also recommends that your contractor consider an AFVR event on monitoring well MW-1 to reduce dissolved CoC concentrations. The current toluene concentration in this well exceeds the effective solubility level for gasoline and therefore, free-phase product may be present.

The next CASE report for the November 2005 quarterly sampling event is due on or before **January 1, 2006**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgettj@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.6

cc: Hartford W. Hight, P.G., SEI Environmental, Inc., 130 Penmarc Drive, Suite 108, Raleigh, NC
27603-2434
Technical file

DHEC/UST/JPP/092605



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JUN 10 2005

MR STEVEN SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received June 3, 2005
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. The report documents that multiple Aggressive Fluid and Vapor Recovery (AFVR) events have been successful in removing free-phase product from monitoring well MW-8. The Program concurs with your contractor's recommendation to continue AFVR events on MW-8 if necessary, and to evaluate alternative corrective action technologies to reduce the concentrations of chemicals of concern (CoC) at the site.

Your contractor requested removal from sampling or reduction in sampling frequency for monitoring wells MW-3, MW-11, MW-12, MW-13, MW-15, DMW-2, and DMW-4 citing historic lack of detectable CoC concentrations. The Program approves omission of MW-3, MW-11, MW-13, MW-15, and DMW-4 from quarterly monitoring. However, quarterly sampling of MW-12 and DMW-2 must be continued. The Program also approves your contractor's request to relocate of creek sample CK-2 to a point just southeast of MW-2. Please note that your contractor will be required to sample all monitoring wells during the post-corrective action monitoring period.

The next CASE report for the June 2005 quarterly sampling event is due on or before **August 1, 2005**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to call me at (803) 896-6398 or (800) 826-5435 (within South Carolina only), by fax at (803) 896-6245, or by e-mail at padgettj@dhc.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.5

cc: William D. Wood, Jr., P.G., SEI Environmental, Inc., 3021 McNaughton Drive, Suite 9,
Columbia, SC 29223
Technical file

DHEC/UST/JPP/060905



G 34139

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

APR 28 2005

MR BILL WOOD
SEI ENVIRONMENTAL INC
3021 MCNAUGHTON DR STE 9
COLUMBIA SC 29223

Re: SEI Environmental Pay For Performance Projects
Meeting on March 23, 2005

Dear Mr. Wood:

On behalf of Lee Monts and the staff of the Assessment and Corrective Action Division, I would like to express our thanks for you and your colleagues taking the time to meet and discuss SEI Environmental's current situation regarding pay for performance (PfP) cleanups.

As we discussed, it is the Department's desire to see SEI accomplish the following three objectives in relation to these projects:

1. Return projects to a regular sampling and reporting schedule;
2. Re-establish reductions at sites where levels of chemicals of concern (CoC) have rebounded; and,
3. Begin closing out those projects that have achieved 95+ percent reduction of CoC but progress is no longer occurring.

In response to the first objective, you indicated that all projects would be back on schedule by the end of April, at the latest. You also stated that SEI has hired staff in the Columbia office and has reallocated personnel resources in other offices to assist with this effort.

In order to accomplish the other two objectives, SEI provided several proposals:

1. In order to limit some short-term costs, SEI proposes to drop historically clean monitoring wells from the sampling schedules of appropriate sites;
2. On some projects, especially the older ones, SEI would like to confirm/update the receptor surveys and possibly re-model the SSTLs;
3. On selected sites SEI will implement changes in technology, to include chemical oxidation. Mr. Mark Martin will meet with DHEC staff in the next few weeks to provide a detailed overview of his technology.

All site-specific proposals should be submitted to the individual project managers for review. Changes in technology will require a new public notice period.

Mr. Wood
Page 2

You also raised the subject of monitoring wells that formerly contained free phase product. As we understand your hypothesis, the free phase product has been smeared in the well and is producing significant levels of CoC in subsequent sampling events that are not representative of the aquifer. In order to correct this condition, you would like to propose some method to "sterilize" these monitoring wells. You are asked to provide whatever data you may have to support your hypothesis along with your proposal. While treatment of monitoring wells is not allowed under the terms and conditions of the PFP agreements, the UST Program will consider your proposal.

We were encouraged by the statements of Mr. McAllen Finley that SEI has every intention of completing the work at all of these sites. We appreciate that Mr. Finley traveled from Nashville to attend this meeting.

Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,



Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

Cc: McAllen Finley, SEI Environmental, 2506 Grandview Ave., Nashville, TN 37211
Kent Coleman, Director, Assessment and Corrective Action Division
Lee Monts, Manager, Southwestern SC Corrective Action Section
Technical Files

DHEC/UST/032805



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

DEC 29 2004

MR STEVEN SMITH
180 SCHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received December 16, 2004
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. The report documents that free-phase product persists in MW-8 and high concentrations of chemicals of concern (CoC) are present in monitoring well MW-14 adjacent to Fall Creek. As the continued presence of free-phase product and elevated CoC pose a threat to the creek, the Program requests that your contractor submit a corrective action plan (CAP) addendum that addresses the problem.

The CAP addendum and next CASE report for the December 2004 quarterly sampling event are due on or before **February 1, 2005**. On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to call me at (803) 896-6398 or (800) 826-5435 (within South Carolina only), by fax at (803) 896-6245, or by e-mail at padgettjp@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.3

cc: David Pittman, SEI Environmental, Inc., 3021 McNaughton Drive, Suite 9, SC 29223
Technical file

DHEC/UST/JPP/122904

FIELD ACTIVITY WORKSHEET ORDER

Date of Request: September 9, 2004

Type of Request:

(Please indicate your request with a check mark)

- Emergency (<2 Working Days)
- Specific (1-5 Working Days)
- Routine (10 Working Days)

Please specify the type of work to be completed:

Sample Reed WSWs. Check creek near MW-12 and CK-1 for possible FP.

Facility Name: Highway 11 Grocery

Permit Number: 03439

Project Manager: J. Padgett

County: Oconee

d/o

*James W. Reid
185 Reid Dr
Schem, SC 29676*

(Field Staff Only)

Date Field Activity Completed:	_____
Completed by Field Staff:	_____
Date Field Notes Entered into EFIS:	_____

Field Staff Comments:

REMEMBER TO ESTABLISH COST PROPOSALS

PACE CA#: 23057 DICK CA#: _____
PALMETTO ENV GROUP CA#: _____

Fill out back of this form. Photocopy, attach a completed CP cover for each CP. Thank you very much!



[Send To Printer](#) [Back to Map](#)

13527 N Highway 11
Salem SC
29676-2926 US

Notes:

.....
.....
.....
.....

Hotels

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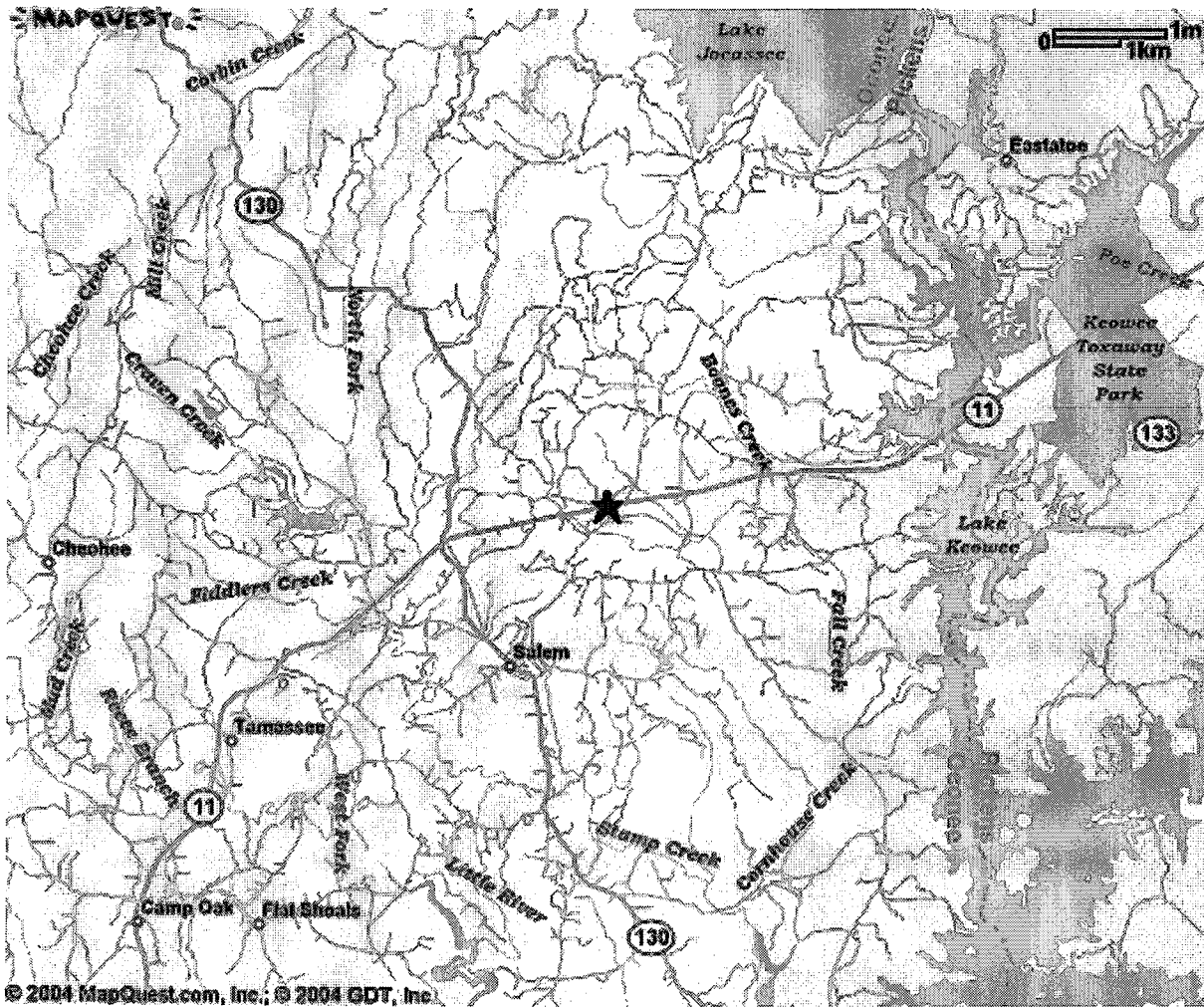
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Great Rooms for Less. Book Online!
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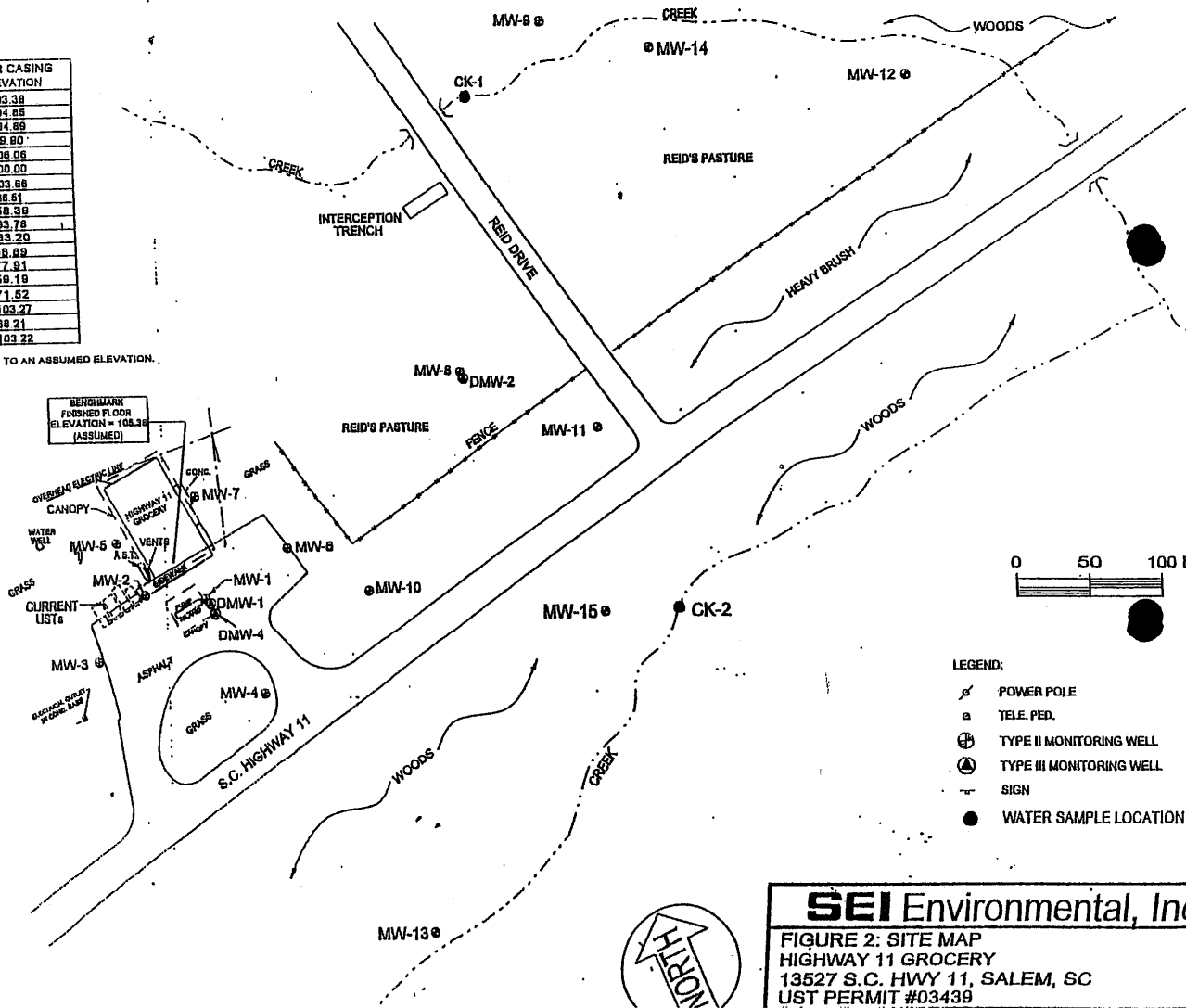
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This map is informational only. No representation is made or warranty given as to its content. User assumes all risk of use.
MapQuest and its suppliers assume no responsibility for any loss or delay resulting from such use.

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.85
MW-3	104.89
MW-4	89.80
MW-5	108.86
MW-6	100.00
MW-7	103.88
MW-8	88.51
MW-9	59.38
MW-10	93.78
MW-11	83.20
MW-12	68.89
MW-13	77.91
MW-14	59.19
MW-15	71.52
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.



SEI Environmental, Inc
FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

OCT 05 2004

SHERRI STABEL
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078

Re: Laboratory Analyses
Bid # SB-19780-6/11/02-EMW, PO # 416276

Dear Ms. Stabel:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #416276 on the appropriate invoice submitted for payment. SCDHEC personnel will perform the sampling on or before October 5, 2004. Please use the lowest detection limit possible for the method.

Table with 6 columns: UST Permit #, County, Analyses-Groundwater, CA #, Bottles (Y/N), Date Needed. Row 1: 03439, Oconee, 3-BTEX, naph, MtBE (8260), 23057, N, 10/20/04

If you have any questions or need further assistance, please contact me at (803) 896-6398 or (800) 826-5435 (within SC only).

Sincerely, [Handwritten Signature]

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: Debra Thoma, Northeastern SC Corrective Action Section
Technical file

DHEC/UST/JPP/100404

Approved Cost Agreement 00057

Facility: 03439 HWY 11 GROCERY

PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	3.0000	30.00	90.00
Total Amount					90.00



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

OCT 05 2004

**SHERRI STABEL
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078**

Re: Laboratory Analyses
Bid # SB-19780-6/11/02-EMW, PO # 416276

Dear Ms. Stabel:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #416276 on the appropriate invoice submitted for payment. SCDHEC personnel will perform the sampling on or before October 5, 2004. Please use the lowest detection limit possible for the method.

UST Permit #	County	Analyses-Groundwater	CA #	Bottles (Y/N)	Date Needed
03439	Oconee	3-BTEX, naph, MtBE (8260)	23057	N	10/20/04

If you have any questions or need further assistance, please contact me at (803) 896-6398 or (800) 826-5435 (within SC only).

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: Debra Thoma, Northeastern SC Corrective Action Section
Technical file

DHEC/UST/JPP/100404

Approved Cost Agreement 23057

Facility: 03439 HWY 11 GROCERY

PADGETJP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	3.0000	30.00	90.00
Total Amount					90.00



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

APR 29 2004

MR STEVEN SMITH
180 SCHALLOW FORD RD
SALEM SC 29676

Re: Highway 11 Grocery, 13527 North SC-11, Salem, SC
UST Permit #03439; CA #17616
Release reported November 28, 2000
Corrective Action System Evaluation (CASE) received April 23, 2004
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. Sampling data in the report and data from verification samples taken March 31, 2004 by Program personnel indicate that free-phase product persists in monitoring well MW-8. Therefore, the seventy-five percent (75%) interim corrective action milestone has not been achieved. The data also document a substantial increase in concentrations of chemicals of concern (CoC) in monitoring well MW-12. This increase poses an immediate threat to the nearby creek and may be the cause of elevated CoC concentrations observed in creek sample CK-1. Please have your contractor take the necessary steps to reduce the CoC concentrations in MW-8 and MW-12.

The next CASE for the June 2004 quarterly gauging event is due on or before August 1, 2004. On all correspondence regarding this facility, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to call me at (803) 896-6398 or (800) 826-5435 (within South Carolina only), or by fax at (803) 896-6245.

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

JPP/jpp
03439.1

cc: SEI Environmental, Inc., 3021 McNaughton Drive, Suite 9, SC 29223
Technical file

DHEC/UST/JPP/042804

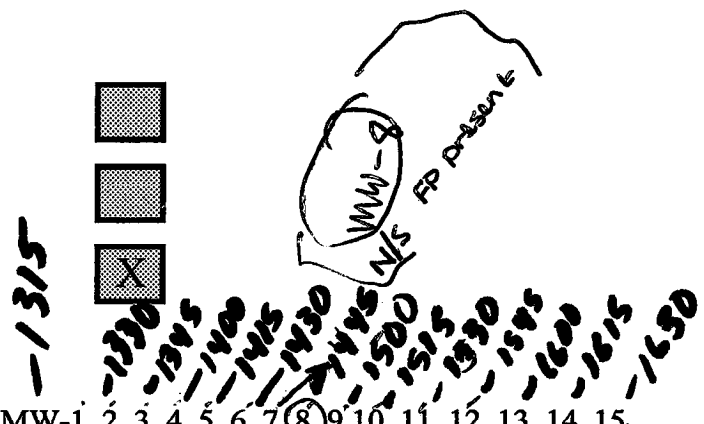
FIELD ACTIVITY WORKSHEET ORDER

Date of Request: March 30, 2004

Type of Request:

(Please indicate your request with a check mark)

- Emergency (<2 Working Days)
- Specific (1-5 Working Days)
- Routine (10 Working Days)



Please specify the type of work to be completed:

ACA verification sampling. Collect split samples from MW-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, DMW-1, 2, 3, and Creek (CK-1 and CK-2).

1645 1700 1715 1730 1745

MW-8
MW-6
SWL 21.35 FPL 21.25
Sheen
Chat sample

Facility Name: Highway 11 Grocery

Permit Number: 03439

Project Manager: J. Padgett

County: Newberry

(Field Staff Only)

Date Field Activity Completed: 3/31/04

Completed by Field Staff: _____

Date Field Notes Entered into EFIS: _____

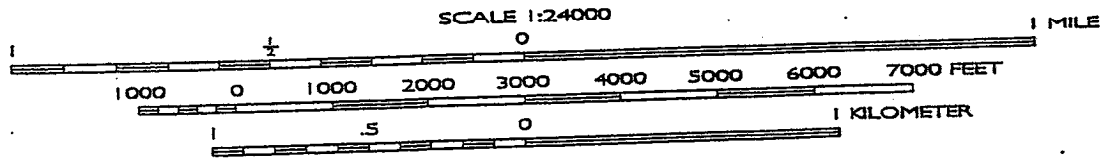
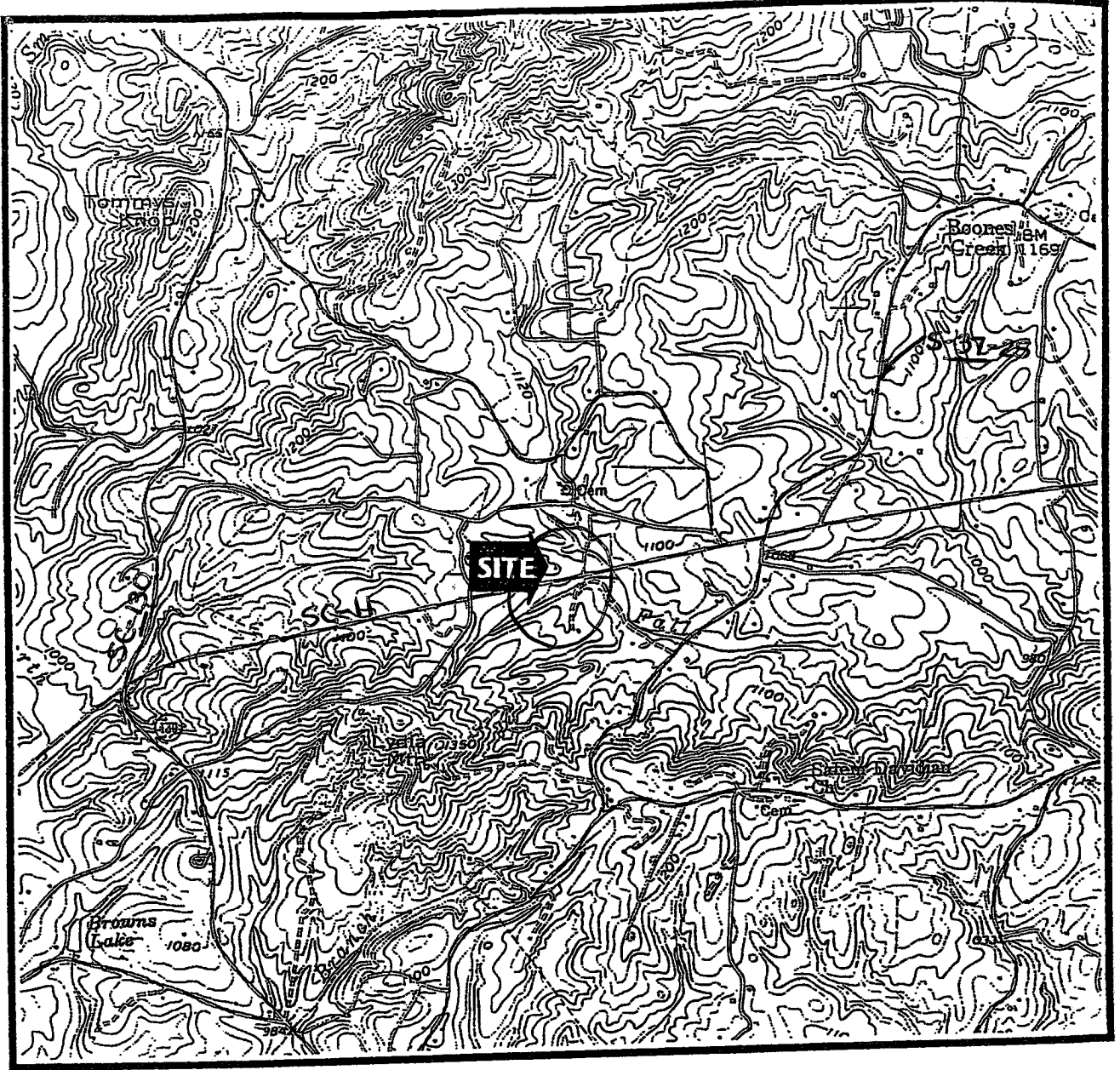
Field Staff Comments:

REMEMBER TO ESTABLISH COST PROPOSALS

PACE CA#: 21733 JA Jones CA#: _____

PALMETTO ENV GROUP CA#: _____

Fill out back of this form. Photocopy, attach a completed CP cover for each CP. Thank you very much!



SEI Environmental, Inc.

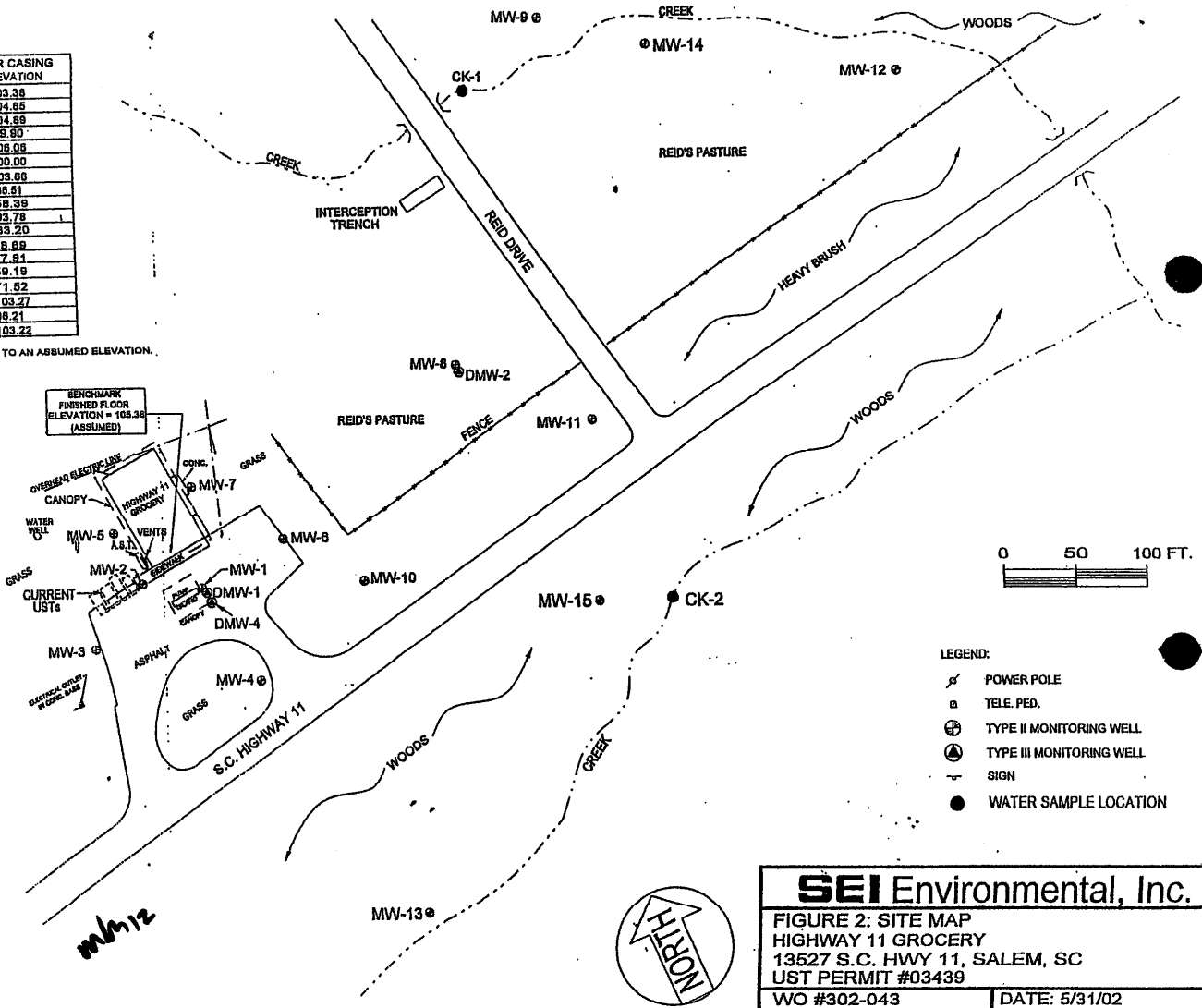
FIGURE 1: SITE LOCATION MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439

W.O. #: 300-388 DWG #	DATE: 9/5/01 DRAWN BY: ICJ
--------------------------	-------------------------------

WELL #	INNER CASING ELEVATION
MW-1	103.38
MW-2	104.65
MW-3	104.89
MW-4	88.80
MW-5	106.08
MW-6	100.00
MW-7	103.68
MW-8	88.51
MW-8	68.39
MW-10	83.78
MW-11	83.20
MW-12	88.89
MW-13	77.81
MW-14	69.19
MW-15	71.52
DMW-1	103.27
DMW-2	88.21
DMW-4	103.22

NOTE: ELEVATIONS REFER TO AN ASSUMED ELEVATION.

BENCHMARK
FINISHED FLOOR
ELEVATION = 108.38
(ASSUMED)



- LEGEND:
- ⚡ POWER POLE
 - ⊠ TELE. PED.
 - ⊕ TYPE II MONITORING WELL
 - ⊗ TYPE III MONITORING WELL
 - ⊙ SIGN
 - WATER SAMPLE LOCATION

SEI Environmental, Inc.
 FIGURE 2: SITE MAP
 HIGHWAY 11 GROCERY
 13527 S.C. HWY 11, SALEM, SC
 UST PERMIT #03439
 WO #302-043 | DATE: 5/31/02
 DWG #H10388F1 | DRAWN BY: IC1



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAR 30 2004

**SHERRI STABEL
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078**

Re: Laboratory Analyses
Bid # SB-19780-6/11/02-EMW, PO # 416276

Dear Ms. Stabel:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #416276 on the appropriate invoice submitted for payment against the facility. SCDHEC personnel will perform the sampling on March 31, 2004.

UST Permit #	County	Analyses-Groundwater	CA #	Bottles (Y/N)	Date Needed
03439	Oconee	20-BTEX, Naph, MTBE (8260)	21733:P	N	04/15/04

If you have any questions or need further assistance, please contact me at (803) 896-6398 or (800) 826-5435 (within SC only).

Sincerely,

Joel P. Padgett, P.G., Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Debra Thoma, Northeastern SC Corrective Action Section
Technical file

BOARD:
Elizabeth M. Hagood
Chairman
Mark B. Kent
Vice Chairman
Howard L. Brilliant, MD
Secretary



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JAN 15 2004

BOARD:
Carl L. Brazell
Louisiana W. Wright
L. Michael Blackmon
Coleman F. Buckhouse, MD

MR STEVEN SMITH
180 SCHALLOW FORD RD
SALEM SC 29676

Hwy. 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439, CA #17616
Corrective Action System Evaluation (CASE) Report received January 13, 2004
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. The Program is pleased with the current results. Please have your contractor submit the next CASE within forty-five days after the March 2004 quarterly sampling event.

The Program will be glad to conduct a split sampling with your environmental contractor in March 2004 as requested.

On all correspondence regarding this facility, please reference UST Permit #03439. If you have any questions regarding this correspondence, feel free to call me at (803) 896-6647

Sincerely,

Konstantine Akhvlediani, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

cc: Mr. John Paul Bekish, SEI Environmental, Inc., 3021 McNaughton Dr., Suite 9, Columbia, SC 29223
Technical File

DHEC/UST/OO/KTA/01/14/04

SEI

Environmental, Inc.

3021 McNaughton Drive
Suite 9
Columbia, SC 29223
800-377-2826
803-788-2535
Fax 803-788-2399

RECEIVED

JUL 25 2003

Underground Storage
Tank Program

July 24, 2003

Konstantine Akhvlediani
Hydrogeologist / Project Manager
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

Re: Underground Injection Control Permit #681
Highway 11 Grocery
13527 South Carolina Highway 11
Salem, South Carolina
UST Permit # 03439

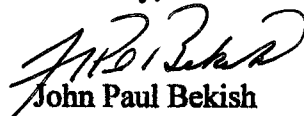
Dear Mr. Akhvlediani;

SEI Environmental, Inc. submits the attached Underground Injection Control Permit # 681 for the above referenced facility submitted by the South Carolina Groundwater Management Section.

In addition, SEI submits that the injection system was started on July 22, 2003. SEI had scheduled a sampling event for the week of July 28, 2003. Upon receipt of the laboratory analytical data, SEI will submit a report summarizing site activities.

If you have any questions and / or comments concerning the information contained in this document, please contact John Paul Bekish at (803) 788-2535.

Sincerely,


John Paul Bekish
Branch Manager
SEI - Columbia, SC

Attachment

CC: Steve Smith - Property Owner
SEI Project Files



July 8, 2003

RECEIVED
JUL 23 2003

2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER:
C. Earl Hunter

(BOW-GWGMT)
Steve Smith
13527 SC Highway 11
Salem, SC 29676-9801

BOARD:
Bradford W. Wyche
Chairman

Mark B. Kent
Vice Chairman

Howard L. Brilliant, MD
Secretary

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

Re: Underground Injection Control Permit #681
Highway 11 Grocery Site
Oconee County

Dear Mr. Smith:

Enclosed is a Permit to Operate for forty-five (45) Class VA-I (Aquifer Remediation) injection wells at Highway 11 Grocery Site, Oconee County, SC.

Affected parties may appeal this permit decision in accordance with State Regulation R.61-72. To contest a case, a request for a hearing must be made to the Clerk of the DHEC Board within 15 days of the date of this letter. All requests must include the following information:


- 1) name of the party requesting the hearing,
- 2) issue(s) for which the hearing is requested,
- 3) caption or other information sufficient to identify the decision, order, action or inaction which is the subject of the hearing,
- 4) relief requested.

Note further that Administrative Law Judge (ALJ) Division rules require that persons requesting a contested case hearing must file a copy of the request and pay a filing fee in the amount of \$100 dollars (US) with the ALJ Division at the following address:

Clerk, ALJ Division
1205 Pendleton Street, Suite 224
P.O. Box 11667
Columbia, SC 29211

If you have any question, please call Todd Adams at (803) 898-3549.

Sincerely,



Rob Devlin, Manager
Ground Water Management Section
Bureau of Water

cc: Kimberly Wilson, BLWM-USTP
Bob Bolton, SEI



2600 Bull Street
Columbia, SC 29201-1708

WATER MONITORING ASSESSMENT & PROTECTION DIVISION

COMMISSIONER:
C. Earl Hunter

Injection Well Operating Approval
for

BOARD:
Bradford W. Wyche
Chairman

Class II, III, and V.A. Injection Well(s)

Mark B. Kent
Vice Chairman

Permit #681

Date of Issue: July 8, 2003

Howard L. Brilliant, MD
Secretary

In accordance with the provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, and pursuant to receiving a Permit to Operate forty-five (45) Class V.A.-I (Aquifer Remediation) injection wells, authorization is granted to SEI Environmental to operate forty-five (45) Class V.A.-I injection wells located at the Highway 11 Grocery Site, Oconee County, SC, and are subject to the attached provisos noted for the operator.

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

The Class V.A.-I injection wells are 1 inches in diameter and approximately 20-60 feet deep. The inspection was completed on **July 7, 2003**.

Pursuant to Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, this authorization may be rescinded if these injection wells should, at any time, contaminate, pollute, or otherwise adversely affect other water in the vicinity or for any other conditions contained in R61-87, Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended.

Expires: July 8, 2013

Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

July 8, 2003
Date

DHEC 2104 (6/88)

Provisos to the Injection Well Operating Approval
for
Underground Injection Well Permit #681
Highway 11 Grocery Site
Oconee County, S.C.
July 8, 2003

- 1) Construction of new or abandonment of existing wells must be reported to the Department within thirty (30) days of completion.
- 2) Only oxygen as described in the Corrective Action Plan may be injected into the subsurface. Any changes in the system operation other than as presented in the UIC Permit Application must be reported to the Department prior to implementation.

D H E C



PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER:
C. Earl Hunter

(BOW-GWMGMT)
Steve Smith
13527 SC Highway 11
Salem, SC 29676-9801

BOARD:
Bradford W. Wyche
Chairman

Mark B. Kent
Vice Chairman

Howard L. Brilliant, MD
Secretary

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

July 8, 2003

RECEIVED

JUL 22 2003

Underground Storage
Tank Program

Re: Underground Injection Control Permit #681
Highway 11 Grocery Site
Oconee County

Dear Mr. Smith:

Enclosed is a Permit to Operate for forty-five (45) Class VA-I (Aquifer Remediation) injection wells at Highway 11 Grocery Site, Oconee County, SC.

Affected parties may appeal this permit decision in accordance with State Regulation R.61-72. To contest a case, a request for a hearing must be made to the Clerk of the DHEC Board within 15 days of the date of this letter. All requests must include the following information:

- 1) name of the party requesting the hearing,
- 2) issue(s) for which the hearing is requested,
- 3) caption or other information sufficient to identify the decision, order, action or inaction which is the subject of the hearing,
- 4) relief requested.

Note further that Administrative Law Judge (ALJ) Division rules require that persons requesting a contested case hearing must file a copy of the request and pay a filing fee in the amount of \$100 dollars (US) with the ALJ Division at the following address:

Clerk, ALJ Division
1205 Pendleton Street, Suite 224
P.O. Box 11667
Columbia, SC 29211

If you have any question, please call Todd Adams at (803) 898-3549.

Sincerely,

Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

cc: Kimberly Wilson, BLWM-USTP
Bob Bolton, SEI

D H E C



PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

WATER MONITORING ASSESSMENT & PROTECTION DIVISION

Injection Well Operating Approval
for

COMMISSIONER:
C. Earl Hunter

Class II, III, and V.A. Injection Well(s)

BOARD:
Bradford W. Wyche
Chairman

Mark B. Kent
Vice Chairman

Permit #681

Date of Issue: July 8, 2003

Howard L. Brilliant, MD
Secretary

In accordance with the provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, and pursuant to receiving a Permit to Operate forty-five (45) Class V.A.-I (Aquifer Remediation) injection wells, authorization is granted to SEI Environmental to operate forty-five (45) Class V.A.-I injection wells located at the Highway 11 Grocery Site, Oconee County, SC, and are subject to the attached provisos noted for the operator.

Carl L. Brazell

Louisiana W. Wright


L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

The Class V.A.-I injection wells are 1 inches in diameter and approximately 20-60 feet deep. The inspection was completed on July 7, 2003.

Pursuant to Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, this authorization may be rescinded if these injection wells should, at any time, contaminate, pollute, or otherwise adversely affect other water in the vicinity or for any other conditions contained in R61-87, Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended.

Expires: July 8, 2013


Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

July 8, 2003
Date

DHEC 2104 (6/88)

Provisos to the Injection Well Operating Approval
for
Underground Injection Well Permit #681
Highway 11 Grocery Site
Oconee County, S.C.
July 8, 2003

- 1) Construction of new or abandonment of existing wells must be reported to the Department within thirty (30) days of completion.
- 2) Only oxygen as described in the Corrective Action Plan may be injected into the subsurface. Any changes in the system operation other than as presented in the UIC Permit Application must be reported to the Department prior to implementation.

D H E C



PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER:
C. Earl Hunter

BOARD:
Bradford W. Wyche
Chairman

Mark B. Kent
Vice Chairman

Howard L. Brilliant, MD
Secretary

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

(BOW-GWGMT)
Steve Smith
13527 SC Highway 11
Salem, SC 29676-9801

Re: Underground Injection Control Permit #681
Highway 11 Grocery Site
Oconee County

Dear Mr. Smith:

Enclosed is a Permit to Operate for forty-five (45) Class VA-I (Aquifer Remediation) injection wells at Highway 11 Grocery Site, Oconee County, SC.

Affected parties may appeal this permit decision in accordance with State Regulation R.61-72. To contest a case, a request for a hearing must be made to the Clerk of the DHEC Board within 15 days of the date of this letter. All requests must include the following information:

- 1) name of the party requesting the hearing,
- 2) issue(s) for which the hearing is requested,
- 3) caption or other information sufficient to identify the decision, order, action or inaction which is the subject of the hearing,
- 4) relief requested.

Note further that Administrative Law Judge (ALJ) Division rules require that persons requesting a contested case hearing must file a copy of the request and pay a filing fee in the amount of \$100 dollars (US) with the ALJ Division at the following address:

Clerk, ALJ Division
1205 Pendleton Street, Suite 224
P.O. Box 11667
Columbia, SC 29211

If you have any question, please call Todd Adams at (803) 898-3549.

Sincerely,

Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

cc: Kimberly Wilson, BLWM-USTP
Bob Bolton, SEI

RECEIVED

JUL 22 2003

Underground Storage
Tank Program

D H E C



PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

WATER MONITORING ASSESSMENT & PROTECTION DIVISION

COMMISSIONER:
C. Earl Hunter

Injection Well Operating Approval
for

BOARD:
Bradford W. Wyche
Chairman

Class II, III, and V.A. Injection Well(s)

Mark B. Kent
Vice Chairman

Permit #681

Date of Issue: July 8, 2003

Howard L. Brilliant, MD
Secretary

In accordance with the provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, and pursuant to receiving a Permit to Operate forty-five (45) Class V.A.-I (Aquifer Remediation) injection wells, authorization is granted to SEI Environmental to operate forty-five (45) Class V.A.-I injection wells located at the Highway 11 Grocery Site, Oconee County, SC, and are subject to the attached provisos noted for the operator.

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

The Class V.A.-I injection wells are 1 inches in diameter and approximately 20-60 feet deep. The inspection was completed on **July 7, 2003**.

Pursuant to Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, this authorization may be rescinded if these injection wells should, at any time, contaminate, pollute, or otherwise adversely affect other water in the vicinity or for any other conditions contained in R61-87, Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended.

Expires: July 8, 2013

Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

July 8, 2003
Date

DHEC 2104 (6/88)

Provisos to the Injection Well Operating Approval
for
Underground Injection Well Permit #681
Highway 11 Grocery Site
Oconee County, S.C.
July 8, 2003

- 1) Construction of new or abandonment of existing wells must be reported to the Department within thirty (30) days of completion.
- 2) Only oxygen as described in the Corrective Action Plan may be injected into the subsurface. Any changes in the system operation other than as presented in the UIC Permit Application must be reported to the Department prior to implementation.



2600 Bull Street
Columbia, SC 29201-1708

**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**

Phone (800) 826-5435 Fax (803) 896-6245

MAR 10 2003

MR BOB BOLTON
SEI ENVIRONMENTAL SERVICES INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA SOUTH CAROLINA 29223-1854

Hwy. 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439, CA #17616
UIC Permit Application received January 7, 2003
BAQC Modeling Information received January 2, 2003
Oconee County

Dear Mr. Bolton:

The Underground Storage Tank (UST) Program has reviewed the referenced documents. Further, as required by Section 280.67 of the South Carolina UST Regulations R.61-92, the Program has provided a public notice period including notice of the pending corrective actions to the surrounding land owners via certified correspondence. No objections to the proposed actions were expressed; therefore, corrective action activities may proceed at this time. Copies of the Bureau of Air Quality permit exemption and Underground Injection Control Permit to Construct are enclosed.

As stated in Specifications for Corrective Action, Item 2 of the Request for Bids, an initial monitoring report documenting CoC concentrations in all wells and potentiometric conditions prior to start up must be submitted to the Program within 45 days of award of bid contract. **Sampling for this initial monitoring event must occur prior to system startup.**

The Bureau grants pre-approval for transportation of virgin petroleum contaminated soil and groundwater which may be generated during site construction, drilling, and well development / purging from the referenced site to a permitted treatment facility. If the contaminated soil or groundwater is not immediately transported to the permitted treatment facility, it must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included in the report.

As outlined in the Department's November 6, 2002 correspondence, cost agreement #17616 has been approved in the amount of \$116,000.00. The first pay-for-performance invoice in the amount of \$46,400.00 (40%) may be submitted (on the enclosed invoice form) once the Underground Injection Control Permit to Operate has been issued and the treatment system has been placed into operation.

On all correspondence regarding this site, please reference the UST Permit #03439. If you have any questions, please contact me at (803) 896-6647 or (800) 826-5435 (within South Carolina only).

Sincerely,



Konstantine Akhvlediani, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division

Enc: Corrective Action Invoice (SCDHEC Form 3687)
Bureau of Air Quality Permit Exemption
Underground Injection Control Permit to Construct

cc: Technical File (w/out enc)



NOTICE

State of South Carolina
Department of Health and Environmental Control
Columbia, South Carolina

Public Notice #03439-01: Hwy 11 Grocery 03439

Date: 1/17/03

NOTICE OF PROPOSED CORRECTIVE ACTION

Section 280.67 of the S.C. Underground Storage Tank Control Regulations (R.61-92) requires that any Corrective Action Plan prepared to meet the requirements of 280.66 must be placed on notice for public comment. The following applicant has submitted a Corrective Action Plan for the rehabilitation of groundwater contaminated by petroleum constituents released from underground storage tanks (USTs).

Applicant: *Hwy 11 Grocery, 13527 N Hwy. 11, Salem, SC 29506.* The *Hwy 11 Grocery* has four USTs used for storage of petroleum products. The facility is located at 13527 N Hwy. 11, in Oconee County, South Carolina.

Corrective Action will consist of vacuum extraction and bioremediation. These corrective action activities will be followed by Intrinsic Remediation/Natural Attenuation for the rehabilitation of ground water contaminated by petroleum constituents released from underground storage tanks. Vacuum extraction is a technology in which air is suctioned from the subsurface utilizing a mechanical pump for the purpose of removing contaminants by volatilization and controlling the potential migration of vapors. Bioremediation is a technology where the addition of nutrients enhances the biological degradation of the petroleum product.

A copy of the Corrective Action Plan is available for review at the Department's Freedom of Information Office, 2600 Bull Street in Columbia, SC. Please call (803) 898-3882 to schedule an appointment.

Persons wishing to comment upon or object to Corrective Action approval are invited to submit same in writing within fifteen (15) days of the date of this notice to South Carolina Department of Health and Environmental Control, Underground Storage Tank Program, 2600 Bull Street, Columbia, S.C. 29201 or call Konstantine Akhvlediani at (803) 896-6647. The public notice #03439-01 should be placed at the top of the first page of comments. Where there is a significant degree of public interest, the Department will hold a public hearing.

Please bring the foregoing to the attention of persons who you know will be interested in this matter.



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**

Phone (803) 896-6240 Fax (803) 896-6245

2600 Bull Street
Columbia, SC 29201-1708

JAN 15 2003

**MR JAMES W REID
185 REID DRIVE
SALEM SC 29676-2938**

**Re: Hwy 11 Grocery, 13527 N Hwy. 11, Salem, SC
UST Permit # 03439
Release 1 Reported November 28, 2000
Oconee County**

Dear Mr. Reid:

As you may be aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, SEI Environmental, Inc. has been retained to initiate corrective action of the impacted soil and groundwater using Vacuum Enhanced Recovery and Bio-Remediation followed by natural attenuation. A copy of the proposed corrective action plan is available for your review at the SCDHEC Freedom of Information Office, 2600 Bull Street, Columbia, South Carolina. Please call the Freedom of Information Office at (803) 896-4288 for an appointment if you would like to review this corrective action plan.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the SCDHEC to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. You may observe limited drilling, trenching, and construction activities by SEI Environmental, Inc. at the referenced property.

If you have any questions or comments regarding the proposed corrective action, please call at (803) 896-6647. All comments should be submitted with fourteen (14) days of the date of this correspondence.

Sincerely,

Konstantine Akhvlediani, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division

Enc.: Public Notice (copy)

cc: Technical file (without enclosure)



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**

Phone (800) 826-5435 Fax (803) 896-6245

2600 Bull Street
Columbia, SC 29201-1708

JAN 15 2003

**MS MARGIE A SATTERFIELD
P O BOX 405
WEST UNION SC 29696-0405**

**Re: Hwy 11 Grocery, 13527 N Hwy. 11, Salem, SC
UST Permit # 03439
Release 1 Reported November 28, 2000
Oconee County**

Dear Ms. Satterfield:

As you may be aware, petroleum products have been identified in the soil and groundwater at the referenced facility. To prevent the release from becoming an unacceptable risk, SEI Environmental, Inc. has been retained to initiate corrective action of the impacted soil and groundwater using Vacuum Enhanced Recovery and Bio-Remediation followed by natural attenuation. A copy of the proposed corrective action plan is available for your review at the SCDHEC Freedom of Information Office, 2600 Bull Street, Columbia, South Carolina. Please call the Freedom of Information Office at (803) 896-4288 for an appointment if you would like to review this corrective action plan.

Section 280.67 of the South Carolina Underground Storage Tank Regulations requires the SCDHEC to provide notice to those members of the public that may be affected by a planned corrective action. A copy of the public notice is enclosed for your information. You may observe limited drilling, trenching, and construction activities by SEI Environmental, Inc. at the referenced property.

If you have any questions or comments regarding the proposed corrective action, please call at (803) 896-6647. All comments should be submitted with fourteen (14) days of the date of this correspondence.

Sincerely,

Konstantine Akhvlediani, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division

Enc.: Public Notice (copy)

cc: Technical file (without enclosure)



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

MEMORANDUM

DATE: January 10, 2003

TO: *Dale Stoudemire or Robin Mack*
Compliance Section
Regulatory Compliance Division

FROM: Konstantine Akhvlediani
Owner/Operator Support Section
Assessment and Corrective Action Division

SUBJECT: Public Notice #03439-01
Hwy 11 Grocery, UST Permit #03439
Oconee County

Per section 280.67 of the South Carolina Underground Storage Tank Control Regulations R. 61-91, the South Carolina Department of Health and Environmental Control (SCDHEC) is required to provide public notice of proposed corrective actions at underground storage tank facilities.

The Assessment & Corrective Action Division requests your assistance in posting the enclosed notice at public offices (e.g. post offices, court houses, etc.) located in close proximity to the referenced facility.

If possible, the notice should be posted for 15 days. The attached notice has been postdated to January 17, 2003 to allow your office time to have it posted prior to its beginning date. Your assistance is greatly appreciated.

Questions may be referred to my attention at (803) 896-6647.

enc: Public Notice (4 copies)

cc: Technical File

SCDHEC/UST/OO/KTA



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**

**2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240**

MEMORANDUM

DATE: January 10, 2003

TO: Jody Hamm
Freedom of Information Office

FROM: Konstantine Akhvlediani
Owner/Operator Support Section
Assessment and Corrective Action Division

SUBJECT: Public Notice #03439-01
Hwy 11 Grocery, UST Permit #03439
Oconee County

Per section 280.67 of the South Carolina Underground Storage Tank Control Regulations R. 61-91, the South Carolina Department of Health and Environmental Control (SCDHEC) is required to provide public notice of proposed corrective actions at underground storage tank facilities.

The Assessment and Corrective Action Division requests your assistance in making the technical file for the referenced facility available for review by any concerned citizens and/or environmental consultants.

The notice has been postdated to January 17, 2003 and will be posted for 15 days. A copy is enclosed for your information. Your assistance is greatly appreciated.

Questions may be referred to my attention at (803) 896-6647.

enc: Public Notice

cc: Technical File



2600 Bull Street
Columbia, SC 29201-1708

RECEIVED

DEC 30 2002

**UNDERGROUND STORAGE
TANK PROGRAM**

MEMORANDUM

COMMISSIONER:
C. Earl Hunter

BOARD:
Bradford W. Wyche
Chairman

Mark B. Kent
Vice Chairman

Howard L. Brilliant, MD
Secretary

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Larry R. Chewning, Jr., DMD

DATE: December 27, 2002

TO: Konstantine T. Akhvlediani
Underground Storage Tank Program
Bureau of Land and Waste Management

FROM: Mary Peyton Davis *MD*
Air Modeling Section
Bureau of Air Quality

SUBJECT: Hwy 11 Grocery, GWPD #03439
13527 North Hwy 11
Salem, South Carolina

The Bureau of Air Quality has reviewed the air emission information for the dual phase recovery event to be located at Hwy 11 Grocery in Salem, SC. Air dispersion modeling results indicate that the air toxics emitted (Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, and MTBE) will result in off-site concentrations of these toxics that will meet the air toxic standards (Standard No. 8). Since the total volatile organic compound (VOC) emissions are less than 1000 lbs./month, an air permit will not be required for the dual phase recovery event. If the 1000 lb. VOC limit is reached during the dual phase recovery event, the system will be shut down, and an air permit will be obtained from the Bureau of Air Quality before operation may continue. This is in accordance with Section II, Part F, Paragraph G of the SC Dept. of Health and Environmental Control Air Pollution Control Regulation No. 62.1.

cc: Rick Caldwell, Appalachia I EQC District
Tracey Stewart, BAQ Permitting
Engineering File

AIR DISPERSION MODELING SUMMARY SHEET

SITE NAME: Hwy 11 Grocery

DATE: 12/27/02

LOCATION: Salem

REVIEWED BY: MPD

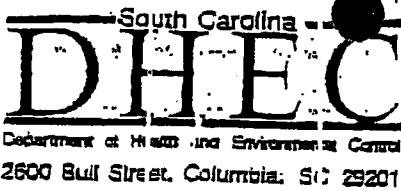
GWPD NO.: 03439

MODEL: SCREEN3

SOURCE DESCRIPTION: Dual phase recovery event

RESULTS:

POLLUTANT	CAS NO.	AVERAGING PERIOD	MAX. MODELED CONCENTRATION ($\mu\text{g}/\text{m}^3$)	STANDARD ($\mu\text{g}/\text{m}^3$)
Benzene	71-43-2	24 Hour	32.21	150
Toluene	108-88-3	24 Hour	2.82	2000
Ethyl benzene	100-41-4	24 Hour	9.66	4350
Xylene	1330-20-7	24 Hour	3.22	4350
MTBE	1634-04-4	24 Hour	0.24	N/A
Naphthalene	91-20-3	24 Hour	0.012	1250.00



Commissioner: Michael D. Jarrett

Board: John B. Pate, MD, Chairman
William E. Applegate, III, Vice Chairman
John H. Burriss, Secretary

Toney Graham, Jr., MD
Richard E. Jabbour, DDS
Henry S. Jordan, MD
Curie B. Solvey, Jr.

Promoting Health. Protecting the Environment

BAQC UST MODELING INFORMATION

PLEASE FILL OUT COMPLETELY

COMPANY NAME: Hwy 11 Grocery

CLEANUP LOCATION: 13527 SE Hwy 11, Salem, SC PCAS: _____

TYPE OF OPERATION (i.e. AIR STRIPPER): Dual Phase Recovery

CONTACT: Fred Lyke - SEI Environmental Inc.

PHONE NUMBER: 803 728 2535

SITE MAPS

Please include a scaled plot plan of the site location that clearly shows distances from the stack to the property boundaries. All buildings and/or structures within a radius of 5 stack heights (measured from the stack/vent) shall be incorporated on this plot plan and information on each building and/or structure's height, width, and length shall also be included.

STACK INFORMATION

HEIGHT ABOVE GROUND 10 FEET; DIAMETER 333 FEET

TEMPERATURE 110 F; VELOCITY 10 FEET/SECOND

AIR TOXIC INFORMATION

AIR TOXIC EMITTED (i.e. BENZENE)	CHEMICAL ABSTRACT SERVICE (CAS) NUMBER	EMISSION RATE LB/HR
A) <u>Benzene</u>	<u>71432</u>	<u>.08</u>
B) <u>Toluene</u>	<u>108883</u>	<u>.007</u>
C) <u>Ethylbenzene</u>	<u>100414</u>	<u>.024</u>
D) <u>Xylene</u>	<u>1330207</u>	<u>.008</u>
E) <u>Naphthalene</u>	<u>91-20-3</u>	<u>0.00003</u>
<u>MTBE</u>	<u>1634-04-4</u>	<u>0.0006</u>

Please submit the completed form with maps to the appropriate SCDHEC project manager at the Ground-Water Protection Division. (BAQC-MIF)

Hwy 11 Grocery // 3527 S. Hwy 11, Salem, SC calculations air emissions

Groundwater MW-1 concentrations, Maximum Dissolved concentration in water from E.K. Nyer, Ground

Benzene 1.750 mg/l

Ethylbenzene 1.52 mg/l

Toluene 5.55 mg/l

Xylene 1.75 mg/l

MTBE 14.0 mg/l

Naphthalene 0.578 mg/l

Treatment Technology 2nd ed, 1992.
Van Nostrand Reinhold, NY, p. 49, 14

Flow Rate:

$$Q_{std} = \left(\frac{60 \text{ sec}}{1 \text{ min}} \right) (1 - B_{us}) (V) (A) \left[\frac{528}{460 + T(°F)} \right]$$

$$= 60 (1 - 0.03) (10) (1.0871) \left[\frac{528}{580} \right]$$

$$= 46.45 \text{ ft}^3/\text{min}$$

COC emissions:

$$\text{Benzene: } \left(0.00175 \frac{\text{kg}}{\text{l}} \right) \left(\frac{46.45 \text{ ft}^3}{\text{min}} \right) \left(\frac{60 \text{ min}}{1 \text{ hr}} \right) \left(\frac{3.53 \times 10^{-2} \text{ l}}{\text{ft}^3} \right) \left(\frac{1 \text{ lb}}{2.205 \text{ kg}} \right) = 1.08 \text{ lb/hr}$$

$$\text{Toluene: } \left(0.0055 \frac{\text{kg}}{\text{l}} \right) 44.34 = 0.24 \text{ lb/hr}$$

$$\text{Ethylbenzene: } \left(0.00535 \frac{\text{kg}}{\text{l}} \right) 44.34 = 0.24 \text{ lb/hr}$$

$$\text{Xylene: } \left(0.00175 \frac{\text{kg}}{\text{l}} \right) 44.34 = 0.08 \text{ lb/hr}$$

$$\text{Naphthalene} = (0.00000578) 44.34 = 0.00003 \text{ lb/hr}$$

$$\text{MTBE} = (0.000014) 44.34 = 0.0006 \text{ lb/hr}$$

$$\text{Total estimated COC in lbs per 12 hr event} = 1.43 \text{ lbs/event}$$



December 12, 2002

2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER: Steve Smith
C. Earl Hunter 13527 SC Highway 11
BOARD: Salem, SC 29676-9801
Bradford W. Wyche
Chairman

Mark B. Kent
Vice Chairman

Howard L. Brilliant, MD
Secretary

Carl L. Brazell

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DMD

Re: Underground Injection Control Permit #681
Highway 11 Grocery
Oconee County

Dear Mr. Smith:

Enclosed is a Permit to Construct for forty-five (45) Class VA-I injection wells at the Highway 11 Grocery, Oconee County as requested in the permit application received December 3,, 2002.

Affected parties may appeal this permit decision in accordance with State Regulation R.61-72. To contest a case, a request for a hearing must be made to the Clerk of the DHEC Board within 15 days of the date of this letter. All requests must include the following information:

- 1) name of the party requesting the hearing,
- 2) issue(s) for which the hearing is requested,
- 3) caption or other information sufficient to identify the decision, order, action or inaction which is the subject of the hearing,
- 4) relief requested.

Note further that Administrative Law Judge (ALJ) Division rules require that persons requesting a contested case hearing must file a copy of the request and pay a filing fee in the amount of \$100 dollars (US) with the ALJ Division at the following address:

Clerk, ALJ Division
1205 Pendleton Street, Suite 224
P.O. Box 11667
Columbia, SC 29211

An inspection of the UIC System must be conducted prior to issuance of Approval to Operate. If you have any question, please call Todd Adams at (803) 898-3549.

Sincerely,

Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

cc: Kimberly Wilson, BLWM-USTP
Bob Bolton, SEI



2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER:
C. Earl Hunter

WATER MONITORING ASSESSMENT & PROTECTION DIVISION

BOARD:
Bradford W. Wyche
Chairman

Injection Well Construction Permit
for

Mark B. Kent
Vice Chairman

Class II, III, and V.A. Injection Well(s)

Howard L. Brilliant, MD
Secretary

Permit #681

Date Issued: December 12, 2002
Date Expired: December 12, 2003

Carl L. Brazell

For (Operator): SEI

Louisiana W. Wright

L. Michael Blackmon

Lawrence R. Chewning, Jr., DHEC

In accordance with provisions of Title 48, Chapter 1, South Carolina Code of Laws, 1976, as amended, permission is granted for construction of forty-five (45) Class V.A.-I injection wells with a true diameter of 1 1/4 inches, and a total depth of approximately 20-50 feet located at the Highway 11 Grocery, Oconee County, SC with the following provisions:

- 1) The operator shall submit completed SCDHEC well record forms to the Departments Water Monitoring, Assessment & Protection Division after completion of the injection wells.
- 2) Upon completion of construction, injection activities shall not commence prior to receiving approval from the Department to operate the injection wells.
- 3) When the injection wells are no longer in use, or upon request by the Department, within sixty (60) days all injection wells must be permanently abandoned in accordance with the South Carolina Well Standards and Regulations (R.61-71).

Rob Devlin, Manager
GroundWater Management Section
Bureau of Water

December 12, 2002
Date

DHEC 2104 (6/88)

STATEMENT OF BASIS - UIC DRAFT PERMIT #681

In accordance with the South Carolina Underground Injection Control Regulations, Section R61-87.12,J., this Statement of Basis has been prepared for the Highway 11 Grocery Underground Injection Control permit application received December 3, 2002.

Ownership of the proposed injection wells is Steve Smith, 13527 SC Highway 11, Salem, SC 29676-9801. The permit (UIC #681) is for the construction of forty-five (45) injection wells for a corrective action system at the Highway 11 Grocery. The intent of the injection wells is to remediate volatile organic compounds from the ground water by injection into the subsurface of hydrogen peroxide as described in the Corrective Action Plan. The draft permit for the underground injection proposal has been prepared based on staff review and the application of the Pollution Control Act of South Carolina and the Underground Injection Control Regulations of South Carolina.

Conditions of the permit issuance include the submittal of well records for all injection wells installed and the inspection of well construction by the Department prior to injection.



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**

Phone (803) 896-6240 Fax (803) 896-6245

2600 Bull Street
Columbia, SC 29201-1708

NOV 06 2002

MR STEVEN SMITH
180 SCHALLOW FORD ROAD
SALEM SC 29676

Re: Hwy 11 Grocery, 13527 N Hwy. 11, Salem, SC
UST Permit # 03439, CA # 17616
Release Reported November 28, 2000
Corrective Action Solicitation Response Summary Form received November 4, 2002
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control has received your Corrective Action Solicitation Response Summary Form and understands that you have selected SEI Environmental, Inc. as the environmental contractor to perform corrective action activities at the referenced site.

A Corrective Action Plan (CAP) (3 copies), Engineering Report (4 copies), Underground Injection Control Permit Application (4 copies), Wastewater discharge permit application (3 copies), and Bureau of Air Quality Modeling Forms (3 copies), should be submitted to the Department within 30 days of receipt of this letter. All Corrective Actions are subject to the conditions and specifications as outlined in the Request for Corrective Action Price Quotation. This includes a performance bond or irrevocable standby letter of credit, equal to the financial approval amount of \$116,000.00, which must be submitted with the CAP and must specify that the State Underground Petroleum Environmental Response Bank (SUPERB) Account will be the recipient in case of any forfeiture. Since SCDHEC is responsible for the disbursement of funds from the SUPERB Account, the financial responsibility mechanism will be held by the Bureau until all work is successfully completed.

A cost agreement has been established in the amount of \$116,000.00. Compensation will be in accordance with the pay for performance schedule outlined below. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2) and the referenced bid special conditions. The accepted price quotation is considered final and will not be increased for any reason (e.g., unanticipated iron fouling of a system, wells clogging because of biological activity or sediments, increased subcontractor costs, loss of utilities, modification to the system to meet the remediation goals, etc.) with the exception of unforeseen geologic circumstances or identification of additional CoC from another release. Per the referenced price quotation specification, invoices will be submitted at each payment milestone using the corrective action invoice form as follows:

- \$46,400.00 within 90 days of operation or issuance of a permit to operate for the remediation system or corrective action as described in the approved CAP and;
- \$11,600.00 once one-quarter of the initial BTEX and MTBE concentration is removed as compared to the initial sampling data and SSTL presented in the Corrective Action Solicitation;
- \$11,600.00 once one-half of the initial BTEX and MTBE concentration is removed as compared to the initial sampling data and SSTL presented in the Corrective Action Solicitation;
- \$17,400.00 once three-quarters of the initial BTEX and MTBE concentration is removed as compared to the initial sampling data and SSTL presented in the Corrective Action Solicitation; and
- \$29,000.00 once the concentration in and around all monitoring wells is at or below the SSTL goals for each CoC (see specifications item 11 in the Request for Corrective Action Price Quotation for the method of verification), and all remediation equipment, wells, and trenches installed by SEI Environmental, Inc. are removed from the site or properly abandoned.

On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions, please contact me at (800) 826-5435 (within South Carolina only) or (803) 896-6647.

Sincerely,



Konstantine Akhvlediani, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division

cc: SEI Environmental, Inc., 3021 McNaughton Drive, Suite 9, Columbia, SC 29223
Technical Read Files
Financial File



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**

2600 Bull Street
Columbia, SC 29201-1708

Phone (803) 896-6240 Fax (803) 896-6245

NOV 06 2002

MR FRED LYKE
SEI ENVIRONMENTAL SERVICES INC
3021 MCNAUGHTON DR SUITE 9
COLUMBIA SOUTH CAROLINA 29223

Hwy. 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439, CA #17616
Release Reported November 28, 2000
Corrective Action Solicitation Response Summary Form received November 4, 2002
Oconee County

Dear Mr. Lyke:

The Underground Storage Tank (UST) Program recently served as a coordinator to obtain solicitation responses for a reasonable, cost-effective response for soil and/or groundwater contamination at the above referenced facility. The Program's role of coordinator does not imply a contractual obligation from the Department. Mr. Steven Smith selected your company to implement the corrective action. Additionally, Mr. Smith requested that reimbursement from the State Underground Petroleum Response Bank (SUPERB) Account for the corrective action activities be paid directly to your company. Although payment will be issued from the SUPERB Account, the relationship between you and Mr. Smith is crucial for the success of the corrective action. **The UST Program highly recommends that a written contractual agreement be developed between your company and Mr. Steven Smith. The Department, as the coordinator, will not be a party to any contractual obligations between you, Mr. Smith, subcontractors, or any third party.**

By responding to the solicitation and/or agreeing to conduct the cleanup for the tank owner or operator, you are deemed to understand the specifications, terms, and conditions of the solicitation. Payment from the SUPERB Account will only be made for achieving the corrective action goals as specified in the solicitation package and that the required performance bond or irrevocable standby letter of credit shall specifically list the SUPERB Account as the payee.

Cost Agreement #17616 has been established in the amount of \$116,000.00 for all costs associated with cleanup activities at the referenced facility in accordance with the specification package. Future invoices against this amount must comply with the State Underground Petroleum Environmental Response Bank (SUPERB) Site Rehabilitation and Fund Access Regulations, R.61-98 and the special conditions of the corrective action specifications. The established price is final and will not be increased for any reason (e.g., unanticipated iron fouling of a system, wells clogging because of biological activity or sediments, increased subcontractor costs, loss of utilities, modification to the system to meet the remediation goals, etc.) with the exception of unforeseen geologic circumstances or identification of additional chemicals of concern from another release.

Mr. Lyke
Page 2

The UST Program will conduct split-sampling events to verify that reduction milestones have been met. If you think you are approaching a milestone, please contact me approximately two weeks prior to your quarterly sampling event. I will inform you if UST Program personnel plan to join you to obtain split or duplicate groundwater samples.

Any problems that occur during the implementation of the corrective action at the referenced facility should be immediately brought to the attention of the tank owner or operator, in writing, with a copy submitted to my attention. As stated above, the UST Program and the SUPERB Account will not be liable for any costs associated with work outside the scope of the Corrective Action Solicitation or costs in excess of \$116,000.00.

On all correspondence regarding this site, please reference UST Permit #03439. If you have any questions, please contact me at (800) 826-5435 (within South Carolina only) or (803) 896-6647.

Sincerely,



Konstantine Akhvlediani, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division

cc: Mr. Steven Smith, 180 Schallow Ford Road, Salem, SC 29676
Technical Read Files
Pat Holland, Financial Section

CORRECTIVE ACTION SOLICITATION RESPONSE SUMMARY

**SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Program**

UST Permit #03439

Facility Name Hwy 11 Grocery

1. Completed Corrective Action Solicitation Response Forms are attached from 7 contractors.

Consultech Environmental, Inc.	\$116,000.00
Palmetto Environmental Group	\$160,000.00
Brooks & Medlock Engineering	\$164,000.00
Terry Environmental Services	\$192,000.00
phA Environmental Restoration, Inc.	\$213,000.00
Gage Group, Inc.	\$250,000.00
Applied Earth Sciences	\$309,000.00

2. Based on a review of the corrective action responses, I select (please name):

SEI ENVIRONMENTAL

I understand that the SUPERB Account will compensate for reasonable costs up to \$116,000.00 regardless of the proposed cost of the contractor selected by me.

3. Compensation from the SUPERB Account should be paid to: (please check one)

UST Owner/ Operator

SC Certified Site Rehabilitation Contractor named above in Item 2

4. List any anticipated changes to the site in the near future: (e.g. sale, UST removal, etc.)

5. Additional Comments: (Attach additional page(s) if required)

UST Owner/ Operator Name Steven M Smith
 Address 13527 N Hwy 11
Salem SC 29676
 Telephone Number (813) 944-0494 FAX Number ()
 Signature St M Smith Printed or Typed Name Steven M Smith Title owner
 Date Signed 10.30.02

CORRECTIVE ACTION SOLICITATION RESPONSE SUMMARY

CAP SUM (modified 07/26/2001)

RECEIVED

NOV 04 2002

UNDERGROUND STORAGE
TANK PROGRAM

SUPERB :: Money Calculator version WIN

Site ID: 03439

11/04/2002

CP No. : 17616

Total Price Quoted for ACA : \$116000.00
Base Concentration : 12493598 ug/l
SSTL Concnetration : 447591 ug/l

Initial Money: \$ 46400.00 for system startup
25% Reduction Money: \$ 11600.00 for reaching 9482096 ug/L
50% Reduction Money: \$ 11600.00 for reaching 6470595 ug/L
75% Reduction Money: \$ 17400.00 for reaching 3459093 ug/L
For finishing the CA: \$ 29000.00 for reaching 447591 ug/L

Total Money: \$ 116000.00

Contents of this program and its use are the sole
property of the South Carolina Department of Health
and Environmental Control(SCDHEC).

Program Developed by Sriram Madabhushi.
Unauthorized use is strictly prohibited.