D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
P O BOX 3227
WILMINGTON NC 28406-3227

SEP 05 2007

Re: Groundwater Sampling Directive
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA# 24388
Release reported December 30, 1991
Owner/Operator Lead Form received May 8, 2006
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing KLM Environmental, LLC as your contractor. The Program has reviewed the technical file and determined the next necessary scope of work to be a comprehensive groundwater sampling event to obtain current data and conduct receptor survey.

Cost Agreement # 24388 has been approved in the amount shown on the enclosed cost agreement form to sample all existing monitoring wells associated with the release and water supply wells within 1000 foot radius (if any). Samples should be collected and analyzed for BTEX + Naph. +MtBE by EPA method 8260B, EDB by EPA method 8011 (using 0.02ug/l as a required detection limit)-only for monitoring wells and for lead by EPA method 7421-only for monitoring wells. Please have your contractor submit groundwater sampling results to the Program in a monitoring report containing the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, dissolved oxygen, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Well measurements (groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth, screened interval) and groundwater laboratory analytical data for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- A data table summarizing the historical and current analytical results of CoC.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

UST PROGRAM
DOCKETING

KLM Environmental, LLC can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and invoice are due within 60 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

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. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations based on laboratory analysis are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference **UST Permit # 05678.** If there are any questions concerning this project, please contact me at (803) 896-6664.

Sincerely,

Maia Milenkova , Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement
cc: Technical File (w/enc.)
KLM Environmental, LLC P O Box 2704, Goose Creek, SC 29445 (w/enc)
SCDHEC/UST/05/08/06/MPM

Approved Cost Agreement 24388

Facility: 05678 SHORT STOP
MILENKMP
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
02 RECEPTOR SURVEY					
		RECEPTOR SURVEY	1.0000	500.00	500.00
04 MOB/DEMOB					
		B PERSONNEL	3.0000	275.00	825.00
10 SAMPLE COLLECTION					
		A GROUND WATER	4.0000	55.00	220.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	4.0000	100.00	400.00
		E LEAD	4.0000	20.00	80.00
		F EDB	4.0000	55.00	220.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	1.0000	90.00	90.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	2,335.00	350.25
			Total Amount		2,685.25

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PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAR 1 1 2009

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

UST DOCKET 101

Re: MW installation and sampling directive
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA # 35468; MWA #UMW-22580
Release reported December 30, 1991
Assessment Report received December 29, 2008
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Program recognizes your commitment to continue work at this site using KLM Environmental, LLC. as your contractor. The next appropriate scope of work at the site is to replace monitoring well MW-1 since it was almost dry and to install three new monitoring wells to define the source area. Please have your contractor install the wells in the location indicated on the enclosed site map. A comprehensive groundwater sampling event should be conducted after the monitoring well installation.

The newly installed wells and all existing monitoring wells should be sampled for BTEX+naph+MtBE+DCA and the 8 oxygenates (EPA Method 8260), EDB (EPA Method 8011) and lead (no-purge sample, EPA Method 6010). Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

Beginning in 2009, the UST Program will begin requiring that laboratories be certified through the SCDHEC Office of Environmental Laboratory Certification for the oxygenate compounds. The UST Program will require that laboratories submit the application for certification no later than December 31, 2008. Beginning April 1, 2009, the UST Program will no longer reimburse costs for oxygenate analysis for any laboratory that is not certified. Detailed information regarding the oxygenate certification can be found on the UST Guidance Documents webpage. (http://www.scdhec.gov/environment/envserv/docs/OxygenateCertification.pdf. The document can also be accessed from the UST documents page at http://www.scdhec.net/environment/ lwm/forms/). Any laboratory with questions regarding the certification requirements, should contact the Office of Environmental Laboratory Certification at (803) 896-0970.

Cost Agreement # 35468 has been approved in the amount shown on the enclosed cost agreement form for the sampling and monitoring well installation. The necessary monitoring well approval is enclosed. Your contractor should submit sampling results to the Program in an assessment report containing information stipulated in the monitoring well approval and the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report should also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.

- Groundwater elevations, depth to ground water, measurable free-phase product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, presented in tabular form. Groundwater laboratory analytical data for all monitoring wells presented in tabular format.
- A groundwater elevation contour map of the site based on current potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.
- Boring logs and 1903 forms from the monitoring well installation

KLM Environmental, LLC. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

The assessment report and invoice are due within 90 days from the date of this letter. An interim invoice may be submitted for this scope of work. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

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

The Program grants pre-approval for transportation of virgin petroleum-contaminated soil and ground- water from the referenced site to a permitted treatment facility. The contaminated soil or groundwater must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated soil and/or ground water 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 as an appendix to the final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or ground water.

On all correspondence concerning this site, please reference UST Permit # 05678. If there are any questions concerning this project, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved cost agreement
Site map

cc: KLM Environmental, LLC., PO Box 2704, Goose Creek, SC 29445 (w/enc)
Technical file (w/enc)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Approval

Approval is hereby granted to: KLM Environmental LLC.
(On behalf of): Worsley Companies, Inc.
Facility: Short Stop, 613 Musgrove St., Clinton, SC
UST Permit Number: 05678
County: Laurens

This approval is for the installation of four groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

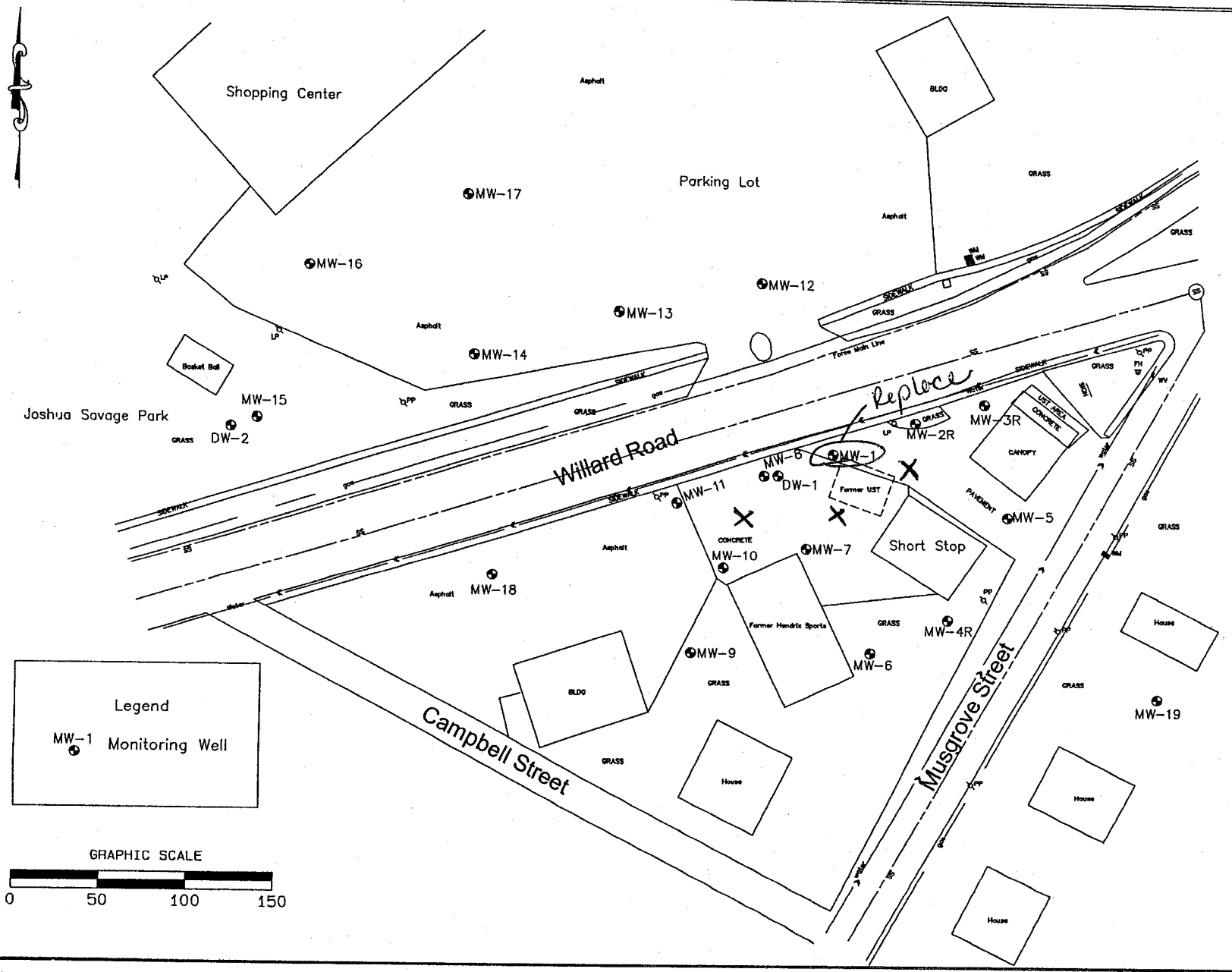
1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted 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 Stephanie Briney (tel: 803-896-6323 or e-mail: brineysm@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 Issuance: February 23, 2009 **Approval #:** UMW-22580

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management



KLM Environmental, LLC

Phase I: Phase II: Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

Replace MW-1

Approved Cost Agreement 35468

Facility: 05678 SHORT STOP
BRINEYSM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		A EQUIPMENT	1.0000	575.00	575.00
		B PERSONNEL	4.0000	290.00	1,160.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	160.0000	38.00	6,080.00
10 SAMPLE COLLECTION					
		A GROUND WATER	6.0000	55.00	330.00
		D GROUNDWATER NO-PURGE	18.0000	35.00	630.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	24.0000	100.00	2,400.00
		BB 1,2-DCA	24.0000	10.75	258.00
		E LEAD	24.0000	20.00	480.00
		F EDB	24.0000	55.00	1,320.00
		P 8 OXYGENATES	24.0000	85.00	2,040.00
16 SUBSEQUENT SURVEY					
		SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	2.0000	90.00	180.00
		C SOIL (TREATMENT/DISPOSAL)	10.0000	50.00	500.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	16,213.00	2,431.95
				Total Amount	18,644.95

UST
APR 2 4 2009
PROGRAM

ASSESSMENT REPORT

Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

April 21st, 2009

Prepared for:

Ms. Stephanie Briney
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*

Project # 05143.3

UST
DOCKET
11tech

SIGNATURE PAGE

This report entitled "**ASSESSMENT REPORT" for Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

A dufinger For:
J. Micah Bennett
Hydrogeologist

Reviewed By:

Mark L. Keller, PG
President

4/22/09
Date

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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina (Appendix A, Figure 1). Currently there is one 12,000 gasoline UST located at the site in the tank basin. There are three dispensers associated with the tank located at the front of the store beneath the canopy. A release was reported on December 30, 1991 and assessment activities have been going on since that date. This report serves to present results of the most recent well installation and sampling conducted at the Short Stop at the request of the SCDHEC Project Manager.

2.0 ASSESSMENT INFORMATION

2.1 Piezometric Data

The Short Stop site has twenty-two shallow wells located at the site along with two telescopic deep wells. KLM personnel were on site on April 7th, 2009 to pick locations for the new monitoring wells MW-1R, MW-20, MW-21, and MW-22. Cypress Bay Water Systems installed the monitoring wells and the well construction logs provided are included in Appendix B. On April 8th, 2009 KLM personnel mobilized to the site and sampled all monitoring wells on site. Figure 2 serves as a site map showing well locations. The piezometric data is provided in the following table and in Appendix A, Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
MW-2R	4/8/09	105.11	20-40	--	30.45	74.66
MW-3R	4/8/09	105.67	20-40	--	30.51	75.16
MW-4R	4/8/09	104.44	20-40	--	29.60	74.84
MW-5	4/8/09	105.62	20-40	--	30.55	75.07
MW-6	4/8/09	103.87	20-40	--	28.92	74.95
MW-7	4/8/09	102.55	20-40	--	28.05	74.50
MW-8	4/8/09	101.82	20-40	--	27.44	74.38
MW-9	4/8/09	102.03	20-40	--	27.71	74.32
MW-10	4/8/09	102.30	20-40	--	27.94	74.36
MW-11	4/8/09	100.45	20-40	--	26.22	74.23
MW-12	4/8/09	102.40	20-40	--	27.98	74.42
MW-13	4/8/09	101.91	20-40	--	27.90	74.01
MW-14	4/8/09	101.77	20-40	--	28.43	73.34
MW-15	4/8/09	94.60	11-31	--	21.90	72.70
MW-16	4/8/09	101.26	19-39	--	28.34	72.92
MW-17	4/8/09	101.69	20-40	--	28.50	73.19
MW-18	4/8/09	98.19	20-40	--	25.21	72.98
MW-19	4/8/09	106.86	20-40	--	28.12	78.74
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
DW-1*	4/8/09	102.23	58-63	--	27.75	74.48
DW-2*	4/8/09	94.62	55-60	--	21.90	72.72

*** Telescoping wells not used to construct the shallow piezometric map.**

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

Historical groundwater elevations are provided in Appendix F.

2.2 Sampling Results

Permanent monitoring wells were sampled on April 8th, 2009 and these samples were submitted to Pace Analytical Services (SCDHEC Certification # 99006). Analytical results are provided in Tables 2 through 4, and in Appendix C. Field sampling sheets from this event are provided in Appendix D. A map is provided as Figure 4 in Appendix A showing the sample results along with the well locations.

A disposal manifest for contaminated groundwater generated during the sampling event is provided in Appendix E. Six drums of contaminated soil and one drum of groundwater were generated during drilling and sampling activities. Results for all wells sampled are as follows:

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS
MW-1R	4/8/09	**8500**	**6440**	**871**	4620	**3170**	**<500**	**80.7**	**35.2**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS
	4/8/09	**504**	97.8	41.9	361	16.2	<25.0	<5.0	<0.019
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS
	4/8/09	**4380**	**18000**	**1420**	7470	**28400**	**<1000**	<5.0	<0.019
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS
	4/8/09	**13.4**	<5.0	<5.0	3.6	6.4	<5.0	5.7	<0.019
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS
	4/8/09	**931**	709	183	798	**53.2**	**<50.0**	13.5	<0.020
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS
	4/8/09	**8.1**	<5.0	<5.0	9.9	11.6	<5.0	<5.0	<0.020
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS
	4/8/09	**1190**	<50.0	15.1	447	**638**	**<50.0**	12.5	**0.34**
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**59.1**	<0.020
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS
	4/8/09	**152**	<5.0	<5.0	18.6	**163**	<5.0	<5.0	0.38
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**21.4**	<0.020
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.7	<0.019
MW-20	4/8/09	**3940**	**16900**	690	5260	**5060**	**127**	5.5	**3.1**
MW-21	4/8/09	**3620**	<250	90.0	3390	**1360**	**<250**	11.8	**0.75**
MW-22	4/8/09	**414**	4.2	2.3	169	**45.2**	<5.0	**15.9**	<0.020
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS
	4/8/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019

TABLE 3
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	Ethanol	(ETBE)	(DIPE)	(ETBA)	(TBA)	(TAME)	(TAA)	(TBF)
RBSL	--	**10000**	**47**	**150**	--	**1400**	**128**	**240**	--
MW-1R	4/8/09	**<20000**	**<1000**	**<500**	<10000	**<10000**	**<1000**	**13900**	<5000
MW-2R	4/8/09	<1000	**<50.0**	<25.0	<500	<500	<50.0	**<500**	<250
MW-3R	4/8/09	**<40000**	**<2000**	**568**	<20000	**<20000**	**<2000**	**<20000**	<10000
MW-4R	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-5	4/8/09	<2000	**<100**	<50.0	<1000	<1000	<100	**<1000**	<500
MW-6	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-7	4/8/09	<200	<10.0	<5.0	<100	216	<10.0	**506**	<50.0
MW-8	4/8/09	<2000	<100	<50.0	<1000	<1000	<100	**2870**	<500
MW-9	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-10	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-11	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-12	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-13	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-14	4/8/09	<200	<10.0	4.0	<100	<100	<10.0	**481**	<50.0
MW-15	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-16	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-17	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-18	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-19	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-20	4/8/09	<200	<10.0	52.9	<100	<100	10.8	**9360**	<50.0
MW-21	4/8/09	<10000	**<500**	**<250**	<5000	**<5000**	**<500**	**9620**	<2500
MW-22	4/8/09	<200	<10.0	<5.0	<100	347	<10.0	**2470**	<50.0
DW-1	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
DW-2	4/8/09	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 4
Summary of Auxiliary Data
Short Stop
Clinton, SC

Well #	Date Sampled	Methane ug/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	1,2 DCA ug/l	PAH's
**	--	--	--	--	--	5	--
MW-1R	4/8/09	NS	NS	NS	NS	**202**	NS
MW-2R	4/8/09	NS	NS	NS	NS	**<25.0**	NS
MW-3R	4/8/09	NS	NS	NS	NS	**<1000**	NS
MW-4R	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-5	4/8/09	NS	NS	NS	NS	**<50.0**	NS
MW-6	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-7	4/8/09	NS	NS	NS	NS	2.0	NS
MW-8	4/8/09	NS	NS	NS	NS	**<50.0**	NS
MW-9	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-10	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-11	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-12	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-13	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-14	4/8/09	NS	NS	NS	NS	3.1	NS
MW-15	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-16	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-17	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-18	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-19	4/8/09	NS	NS	NS	NS	<5.0	NS
MW-20	4/8/09	NS	NS	NS	NS	**46.8**	NS
MW-21	4/8/09	NS	NS	NS	NS	**<250**	NS
MW-22	4/8/09	NS	NS	NS	NS	<5.0	NS
DW-1	4/8/09	NS	NS	NS	NS	<5.0	NS
DW-2	4/8/09	NS	NS	NS	NS	<5.0	NS

3.0 CONCLUSIONS

Results from the contamination delineation indicate contaminants exist at the Short Stop in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Delineation of the contaminant plume appears to be complete at this time. Benzene, Naphthalene, Lead, MTBE, and EDB are present in a number of monitoring wells at the site above RBSLs and are the prevalent chemicals of concern.

Based on the results of the latest sampling event, KLM recommends a series of aggressive fluid recovery events to attempt to lower contaminant levels across the site. Following the AFVR events, a comprehensive sampling event should be conducted in order to track the effectiveness of the AFVR events. Periodic sampling of the site should continue in order to ensure the contaminant plume remains defined.

4.0 REFERENCES

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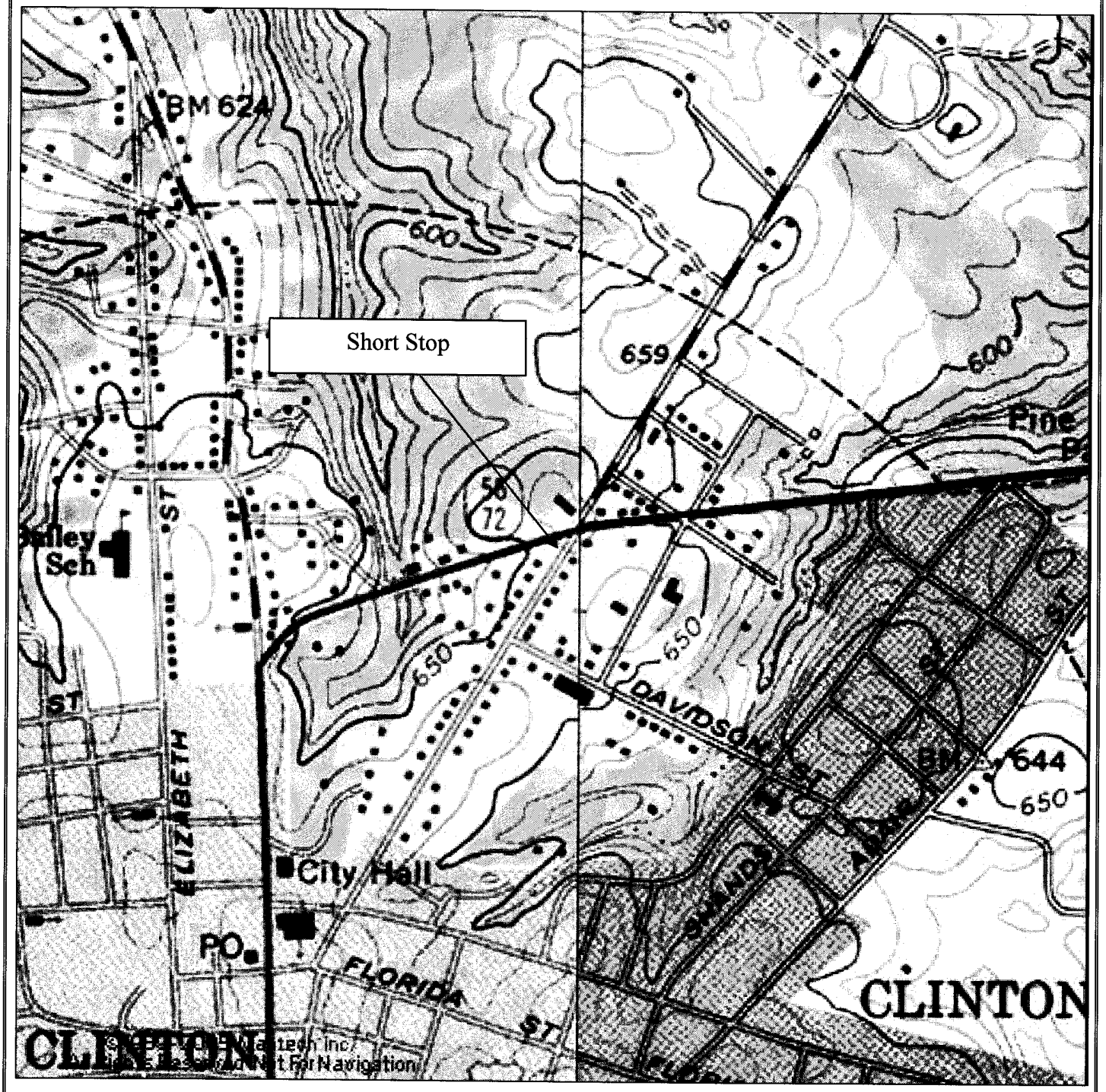


KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
MW-2R	4/8/09	105.11	20-40	--	30.45	74.66
MW-3R	4/8/09	105.67	20-40	--	30.51	75.16
MW-4R	4/8/09	104.44	20-40	--	29.60	74.84
MW-5	4/8/09	105.62	20-40	--	30.55	75.07
MW-6	4/8/09	103.87	20-40	28.82	29.82	74.05
MW-7	4/8/09	102.55	20-40	--	28.05	74.50
MW-8	4/8/09	101.82	20-40	--	27.44	74.38
MW-9	4/8/09	102.03	20-40	--	27.71	74.32
MW-10	4/8/09	102.30	20-40	--	27.94	74.36
MW-11	4/8/09	100.45	20-40	--	26.22	74.23
MW-12	4/8/09	102.40	20-40	--	27.98	74.42
MW-13	4/8/09	101.91	20-40	--	27.90	74.01
MW-14	4/8/09	101.77	20-40	--	28.43	73.34
MW-15	4/8/09	94.80	11-31	--	21.90	72.70
MW-16	4/8/09	101.28	19-39	--	28.34	72.92
MW-17	4/8/09	101.69	20-40	--	28.50	73.19
MW-18	4/8/09	98.19	20-40	--	25.21	72.98
MW-19	4/8/09	106.98	20-40	--	28.12	78.14
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
DW-1	4/8/09	102.23	56-83	--	27.75	74.48
DW-2	4/8/09	94.62	55-80	--	21.90	72.72

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

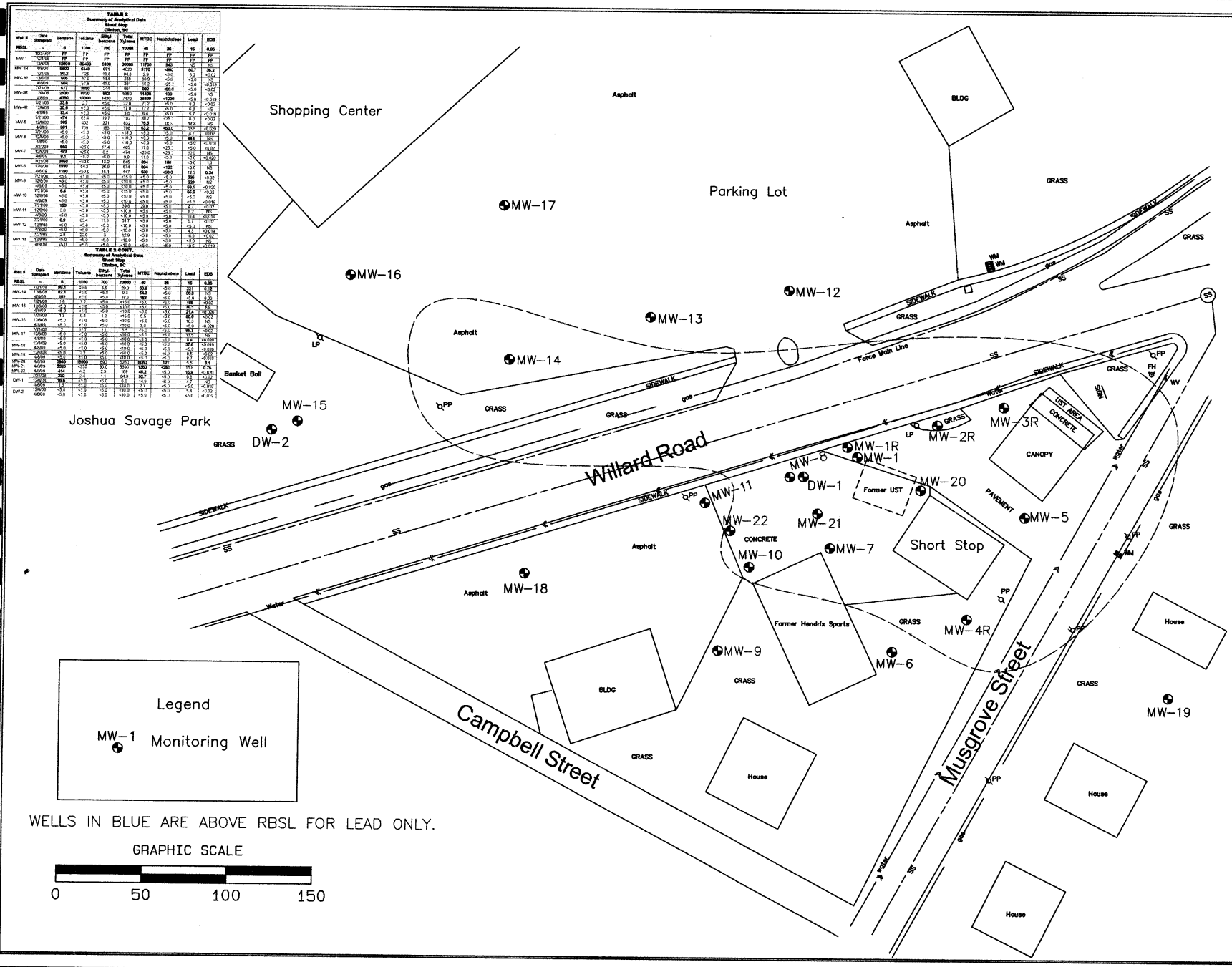
KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-1	10/31/07	FP	FP	FP	FP	FP	FP	FP	FP
	7/21/08	FP	FP	FP	FP	FP	FP	FP	FP
	12/9/08	12800	39400	6180	36000	11700	945	ND	NS
MW-1R	4/9/09	9600	6.48	971	<50.0	3170	<50.0	90.7	36.3
MW-2R	7/21/08	95.2	25	15.8	84.2	6.8	<5.0	6.3	<0.02
	12/9/08	106	<1.0	14.8	240	20.9	<5.0	<5.0	ND
	4/9/09	524	9.78	41.9	361	18.2	<25.1	<5.0	<0.019
MW-3R	7/21/08	677	8580	344	941	592	<50.0	<5.0	<0.02
	12/9/08	2830	6000	962	5350	11400	109	<5.0	NS
	6/9/09	4260	16000	1830	7470	20400	<1000	<5.0	<0.019
MW-4R	7/21/08	30.8	2.7	<5.0	12.0	21.3	<5.0	3.3	<0.02
	12/9/08	45.8	<1.0	<5.0	17.0	17.7	<5.0	6.6	NS
	4/9/09	17.4	<1.0	<5.0	5.8	6.6	<5.0	5.7	<0.019
MW-5	7/21/08	624	61.4	16.7	103	59.2	<25.1	8.6	<0.02
	12/9/08	569	602	221	832	76.3	15.1	17.8	NS
	4/9/09	1110	1.0	29.1	196	52.2	<50.0	13.0	<0.020
MW-6	7/21/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	4	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	44.6	NS
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
MW-7	7/21/08	558	<21.0	17.4	460	47.6	<25	<5.0	<0.02
	12/9/08	493	<25.0	11.7	472	<25.0	<25	<5.0	NS
	4/9/09	9.1	<1.0	<5.0	9.8	<5.0	<5.0	<5.0	<0.020
MW-8	7/21/08	3990	<100.0	15.2	595	564	169	<5.0	<0.02
	12/9/08	1930	54.2	26.9	674	564	<100	<5.0	NS
	6/9/09	1180	<500	10.1	447	536	<50.0	12.1	0.34
MW-9	7/21/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	356	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	238	ND
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	84	<0.020
MW-10	7/21/08	6.4	<1.0	<5.0	<15.0	<5.0	<5.0	52.6	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
	6/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
MW-11	7/21/08	169	<1.0	<5.0	19.0	39.0	<5.0	4.7	<0.02
	12/9/08	3.6	<1.0	<5.0	<10.0	<5.0	<5.0	6.3	NS
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	17.8	<0.019
MW-12	7/21/08	8.9	61.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019
MW-13	7/21/08	2.9	21.9	1	12.9	<5.0	<5.0	10.3	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-14	7/21/08	89.1	31.5	3.6	20.1	62.8	<5.0	327	0.37
	12/9/08	82.1	<1.0	<5.0	9.1	63.3	<5.0	284	ND
	6/9/09	182	<1.0	<5.0	18.6	169	<5.0	63.8	<0.02
MW-15	7/21/08	1.5	<1.0	<5.0	<10.0	<5.0	<5.0	186	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	116	ND
	6/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	214	<0.020
MW-16	7/21/08	1.5	5.6	1.2	<15.3	5.5	<5.0	60.6	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	10.5	NS
	4/9/09	<5.0	<1.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020
MW-17	7/21/08	2	10.2	1.1	5.8	<5.0	<5.0	36.7	<0.02
	12/9/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	13.5	NS
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020
MW-18	7/21/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	37.6	<0.019
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	6.5	<0.020
MW-19	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	8.5	<0.020
MW-20	4/9/09	3540	15800	692	4390	6080	737	5.1	0.11
MW-21	4/9/09	3630	<252	80.0	3160	1360	<252	11.5	0.75
MW-22	4/9/09	414	<1.0	2.3	169	49.2	<5.0	16.8	<0.020
DW-1	7/21/08	202	2.4	1.1	64.9	52.7	<5.0	9.9	<0.02
	12/9/08	16.5	<1.0	<5.0	6.9	18.2	<5.0	4.7	NS
	4/9/09	1.4	<1.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019
DW-2	7/21/08	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02
	4/9/09	<5.0	<1.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019



WELLS IN BLUE ARE ABOVE RBSL FOR LEAD ONLY.

GRAPHIC SCALE

0 50 100 150

KLM Environmental, LLC

Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 4
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Sto[
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:** MW-20

4. ABANDONIMENT: ☐ Yes ☒ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
Tanish orange sandy clay	0 ft	35 ft
Moist tarnish orange sandy clay	35 ft	40 ft
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UMW-22580

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: 4/7/2009
40 ft ft. Date Completed: 4/7/2009

10. CASING: ☒ Threaded ☐ Welded
Diam.:
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
263 Railroad Avenue in. to 20 ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20
Set Between: 20 ft. and 40 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app 30' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18 ft. to 40 ft.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 4/9/2009

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

DHEC 1903 (07/2003)

COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Sto[
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-21

4. ABANDONIMENT: ☐ Yes ☒ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
Tanish orange sandy clay	0 ft	35 ft
Moist tarnish orange sandy clay	35 ft	40 ft
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22580

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: 4/7/2009
40 ft ft. Date Completed: 4/7/2009

10. CASING: ☒ Threaded ☐ Welded
Diam.:
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
263 Railroad Avenue in. to 20 ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20
Set Between: 20 ft. and 40 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app 28' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18 ft. to 40 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 4/9/2009

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

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Sto[
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-22

4. ABANDONIMENT: ☐ Yes ☒ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
Tanish orange sandy clay	0 ft	35 ft
Moist tarnish orange sandy clay	35 ft	40 ft
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22580

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: 4/7/2009
40 ft ft. Date Completed: 4/7/2009

10. CASING: ☒ Threaded ☐ Welded
Diam.:
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
263 Railroad Avenue in. to 20 ft. depth
in. to ft, depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20
Set Between: 20 ft. and 40 ft NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app 27' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18 ft. to 40 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 4/9/2009

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

DHEC 1903 (07/2003)

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Huntersville, NC 28078
(704)875-9092

April 20, 2009

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9241906

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2009. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9241906

Charlotte Certification IDs
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs
West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs
North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424
North Carolina Drinking Water Certification #: 37738

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9241906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9241906001	MW-1	Water	04/07/09 11:10	04/10/09 09:10
9241906002	MW-2R	Water	04/08/09 11:20	04/10/09 09:10
9241906003	MW-3R	Water	04/08/09 11:30	04/10/09 09:10
9241906004	MW-4R	Water	04/08/09 11:40	04/10/09 09:10
9241906005	MW-5	Water	04/08/09 11:50	04/10/09 09:10
9241906006	MW-6	Water	04/08/09 12:00	04/10/09 09:10
9241906007	MW-7	Water	04/08/09 12:10	04/10/09 09:10
9241906008	MW-8	Water	04/08/09 12:20	04/10/09 09:10
9241906009	MW-9	Water	04/08/09 12:30	04/10/09 09:10
9241906010	MW-10	Water	04/08/09 12:40	04/10/09 09:10
9241906011	MW-11	Water	04/08/09 12:50	04/10/09 09:10
9241906012	MW-12	Water	04/07/09 11:00	04/10/09 09:10
9241906013	MW-13	Water	04/08/09 13:00	04/10/09 09:10
9241906014	MW-14	Water	04/08/09 13:10	04/10/09 09:10
9241906015	MW-15	Water	04/08/09 13:20	04/10/09 09:10
9241906016	MW-16	Water	04/08/09 13:30	04/10/09 09:10
9241906017	MW-17	Water	04/08/09 13:40	04/10/09 09:10
9241906018	MW-18	Water	04/08/09 13:50	04/10/09 09:10
9241906019	MW-19	Water	04/08/09 14:00	04/10/09 09:10
9241906020	MW-20	Water	04/08/09 14:10	04/10/09 09:10
9241906021	MW-21	Water	04/08/09 14:20	04/10/09 09:10
9241906022	MW-22	Water	04/08/09 14:30	04/10/09 09:10
9241906023	DW-1	Water	04/08/09 14:50	04/10/09 09:10
9241906024	DW-2	Water	04/08/09 15:10	04/10/09 09:10

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9241906

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9241906001	MW-1	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906002	MW-2R	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906003	MW-3R	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906004	MW-4R	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906005	MW-5	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906006	MW-6	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906007	MW-7	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906008	MW-8	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906009	MW-9	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906010	MW-10	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906011	MW-11	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906012	MW-12	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906013	MW-13	EPA 6010	SAJ	1

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9241906

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906014	MW-14	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906015	MW-15	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906016	MW-16	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906017	MW-17	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906018	MW-18	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906019	MW-19	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906020	MW-20	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906021	MW-21	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906022	MW-22	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906023	DW-1	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21
9241906024	DW-2	EPA 6010	SAJ	1
		EPA 8011	CAH	2
		EPA 8260	PPM	21

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-1 **Lab ID: 9241906001** Collected: 04/07/09 11:10 Received: 04/10/09 09:10 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)	**35.2**	ug/L	0.97	0.97	50	04/15/09 16:07	04/16/09 10:14	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		50	04/15/09 16:07	04/16/09 10:14	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**80.7**	ug/L	5.0	4.0	1	04/14/09 09:58	04/17/09 11:50	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**13900**	ug/L	10000	6200	100		04/14/09 21:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	450	100		04/14/09 21:20	994-05-8	
Benzene	**8500**	ug/L	500	120	100		04/14/09 21:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	4800	100		04/14/09 21:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	2700	100		04/14/09 21:20	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	900	100		04/14/09 21:20	762-75-4	
1,2-Dichloroethane	**202J**	ug/L	500	130	100		04/14/09 21:20	107-06-2	
Diisopropyl ether	ND	ug/L	500	270	100		04/14/09 21:20	108-20-3	
Ethanol	ND	ug/L	20000	17000	100		04/14/09 21:20	64-17-5	
Ethylbenzene	**871**	ug/L	500	110	100		04/14/09 21:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	460	100		04/14/09 21:20	637-92-3	
Methyl-tert-butyl ether	**3170**	ug/L	500	200	100		04/14/09 21:20	1634-04-4	
Naphthalene	ND	ug/L	500	290	100		04/14/09 21:20	91-20-3	
Toluene	**6440**	ug/L	500	180	100		04/14/09 21:20	108-88-3	
Xylene (Total)	**4620**	ug/L	1000	270	100		04/14/09 21:20	1330-20-7	
m&p-Xylene	**3550**	ug/L	1000	270	100		04/14/09 21:20	1330-20-7	
o-Xylene	**1070**	ug/L	500	170	100		04/14/09 21:20	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		100		04/14/09 21:20	1868-53-7	
Toluene-d8 (S)	97	%	70-120		100		04/14/09 21:20	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		100		04/14/09 21:20	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		100		04/14/09 21:20	17060-07-0	

Sample: MW-2R **Lab ID: 9241906002** Collected: 04/08/09 11:20 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/15/09 16:07	04/16/09 06:25	106-93-4	
1-Chloro-2-bromopropane (S)	84	%	60-140		1	04/15/09 16:07	04/16/09 06:25	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 09:58	04/17/09 11:56	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	500	310	5		04/14/09 21:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	22.5	5		04/14/09 21:38	994-05-8	
Benzene	**504**	ug/L	25.0	6.0	5		04/14/09 21:38	71-43-2	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-2R **Lab ID: 9241906002** Collected: 04/08/09 11:20 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		04/14/09 21:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	135	5		04/14/09 21:38	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		04/14/09 21:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		04/14/09 21:38	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	13.5	5		04/14/09 21:38	108-20-3	
Ethanol	ND	ug/L	1000	850	5		04/14/09 21:38	64-17-5	
Ethylbenzene	**41.9**	ug/L	25.0	5.5	5		04/14/09 21:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		04/14/09 21:38	637-92-3	
Methyl-tert-butyl ether	**16.2J**	ug/L	25.0	10.0	5		04/14/09 21:38	1634-04-4	
Naphthalene	ND	ug/L	25.0	14.5	5		04/14/09 21:38	91-20-3	
Toluene	**97.8**	ug/L	25.0	9.0	5		04/14/09 21:38	108-88-3	
Xylene (Total)	**361**	ug/L	50.0	13.5	5		04/14/09 21:38	1330-20-7	
m&p-Xylene	**326**	ug/L	50.0	13.5	5		04/14/09 21:38	1330-20-7	
o-Xylene	**35.0**	ug/L	25.0	8.5	5		04/14/09 21:38	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		5		04/14/09 21:38	1868-53-7	
Toluene-d8 (S)	97	%	70-120		5		04/14/09 21:38	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		5		04/14/09 21:38	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		5		04/14/09 21:38	17060-07-0	

Sample: MW-3R **Lab ID: 9241906003** Collected: 04/08/09 11:30 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:25	04/16/09 18:29	106-93-4	
1-Chloro-2-bromopropane (S)	112	%	60-140		1	04/16/09 11:25	04/16/09 18:29	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:34	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	20000	12400	200		04/14/09 21:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	900	200		04/14/09 21:56	994-05-8	
Benzene	**4380**	ug/L	1000	240	200		04/14/09 21:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	9600	200		04/14/09 21:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	5400	200		04/14/09 21:56	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	1800	200		04/14/09 21:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	260	200		04/14/09 21:56	107-06-2	
Diisopropyl ether	**568J**	ug/L	1000	540	200		04/14/09 21:56	108-20-3	
Ethanol	ND	ug/L	40000	34000	200		04/14/09 21:56	64-17-5	
Ethylbenzene	**1420**	ug/L	1000	220	200		04/14/09 21:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	920	200		04/14/09 21:56	637-92-3	
Methyl-tert-butyl ether	**28400**	ug/L	1000	400	200		04/14/09 21:56	1634-04-4	
Naphthalene	ND	ug/L	1000	580	200		04/14/09 21:56	91-20-3	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-3R **Lab ID: 9241906003** Collected: 04/08/09 11:30 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**18000**	ug/L	1000	360	200		04/14/09 21:56	108-88-3	
Xylene (Total)	**7470**	ug/L	2000	540	200		04/14/09 21:56	1330-20-7	
m&p-Xylene	**5230**	ug/L	2000	540	200		04/14/09 21:56	1330-20-7	
o-Xylene	**2240**	ug/L	1000	340	200		04/14/09 21:56	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		200		04/14/09 21:56	1868-53-7	
Toluene-d8 (S)	98	%	70-120		200		04/14/09 21:56	2037-26-5	
4-Bromofluorobenzene (S)	107	%	87-109		200		04/14/09 21:56	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	79-120		200		04/14/09 21:56	17060-07-0	

Sample: MW-4R **Lab ID: 9241906004** Collected: 04/08/09 11:40 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:25	04/16/09 18:43	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	04/16/09 11:25	04/16/09 18:43	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.7**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:38	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 22:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 22:14	994-05-8	
Benzene	**13.4**	ug/L	5.0	1.2	1		04/14/09 22:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 22:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 22:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 22:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 22:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 22:14	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 22:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 22:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 22:14	637-92-3	
Methyl-tert-butyl ether	**6.4**	ug/L	5.0	2.0	1		04/14/09 22:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 22:14	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 22:14	108-88-3	
Xylene (Total)	**3.6J**	ug/L	10.0	2.7	1		04/14/09 22:14	1330-20-7	
m&p-Xylene	**2.7J**	ug/L	10.0	2.7	1		04/14/09 22:14	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 22:14	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		1		04/14/09 22:14	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		04/14/09 22:14	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/14/09 22:14	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		1		04/14/09 22:14	17060-07-0	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-5 **Lab ID: 9241906005** Collected: 04/08/09 11:50 Received: 04/10/09 09:10 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	04/16/09 11:25	04/16/09 18:57	106-93-4	
1-Chloro-2-bromopropane (S)	66	%	60-140		1	04/16/09 11:25	04/16/09 18:57	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**13.5**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:42	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	1000	620	10		04/14/09 22:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	45.0	10		04/14/09 22:32	994-05-8	
Benzene	**931**	ug/L	50.0	12.0	10		04/14/09 22:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	480	10		04/14/09 22:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	270	10		04/14/09 22:32	75-65-0	
tert-Butyl Formate	ND	ug/L	500	90.0	10		04/14/09 22:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		04/14/09 22:32	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	27.0	10		04/14/09 22:32	108-20-3	
Ethanol	ND	ug/L	2000	1700	10		04/14/09 22:32	64-17-5	
Ethylbenzene	**183**	ug/L	50.0	11.0	10		04/14/09 22:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	46.0	10		04/14/09 22:32	637-92-3	
Methyl-tert-butyl ether	**53.2**	ug/L	50.0	20.0	10		04/14/09 22:32	1634-04-4	
Naphthalene	ND	ug/L	50.0	29.0	10		04/14/09 22:32	91-20-3	
Toluene	**709**	ug/L	50.0	18.0	10		04/14/09 22:32	108-88-3	
Xylene (Total)	**798**	ug/L	100	27.0	10		04/14/09 22:32	1330-20-7	
m&p-Xylene	**697**	ug/L	100	27.0	10		04/14/09 22:32	1330-20-7	
o-Xylene	**102**	ug/L	50.0	17.0	10		04/14/09 22:32	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		10		04/14/09 22:32	1868-53-7	
Toluene-d8 (S)	98	%	70-120		10		04/14/09 22:32	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		10		04/14/09 22:32	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		10		04/14/09 22:32	17060-07-0	

Sample: MW-6 **Lab ID: 9241906006** Collected: 04/08/09 12:00 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:25	04/16/09 19:10	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	04/16/09 11:25	04/16/09 19:10	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:46	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 22:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 22:51	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 22:51	71-43-2	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-6 **Lab ID: 9241906006** Collected: 04/08/09 12:00 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 22:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 22:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 22:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 22:51	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 22:51	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 22:51	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 22:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 22:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 22:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 22:51	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 22:51	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 22:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 22:51	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 22:51	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 22:51	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		04/14/09 22:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/14/09 22:51	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		1		04/14/09 22:51	17060-07-0	

Sample: MW-7 **Lab ID: 9241906007** Collected: 04/08/09 12:10 Received: 04/10/09 09:10 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	04/16/09 11:42	04/16/09 22:19	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/16/09 11:42	04/16/09 22:19	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:49	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**506**	ug/L	100	62.0	1		04/14/09 23:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 23:09	994-05-8	
Benzene	**8.1**	ug/L	5.0	1.2	1		04/14/09 23:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 23:09	624-95-3	
tert-Butyl Alcohol	**216**	ug/L	100	27.0	1		04/14/09 23:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 23:09	762-75-4	
1,2-Dichloroethane	**2.0J**	ug/L	5.0	1.3	1		04/14/09 23:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 23:09	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 23:09	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 23:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 23:09	637-92-3	
Methyl-tert-butyl ether	**11.6**	ug/L	5.0	2.0	1		04/14/09 23:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 23:09	91-20-3	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-7 **Lab ID: 9241906007** Collected: 04/08/09 12:10 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 23:09	108-88-3	
Xylene (Total)	**9.9J**	ug/L	10.0	2.7	1		04/14/09 23:09	1330-20-7	
m&p-Xylene	**8.6J**	ug/L	10.0	2.7	1		04/14/09 23:09	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 23:09	95-47-6	
Dibromofluoromethane (S)	94	%	85-115		1		04/14/09 23:09	1868-53-7	
Toluene-d8 (S)	99	%	70-120		1		04/14/09 23:09	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		1		04/14/09 23:09	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	79-120		1		04/14/09 23:09	17060-07-0	

Sample: MW-8 **Lab ID: 9241906008** Collected: 04/08/09 12:20 Received: 04/10/09 09:10 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)	**0.34**	ug/L	0.019	0.019	1	04/16/09 11:42	04/16/09 23:00	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140		1	04/16/09 11:42	04/16/09 23:00	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**12.5**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:52	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2870**	ug/L	1000	620	10		04/14/09 23:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	45.0	10		04/14/09 23:27	994-05-8	
Benzene	**1190**	ug/L	50.0	12.0	10		04/14/09 23:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	480	10		04/14/09 23:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	270	10		04/14/09 23:27	75-65-0	
tert-Butyl Formate	ND	ug/L	500	90.0	10		04/14/09 23:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		04/14/09 23:27	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	27.0	10		04/14/09 23:27	108-20-3	
Ethanol	ND	ug/L	2000	1700	10		04/14/09 23:27	64-17-5	
Ethylbenzene	**15.1J**	ug/L	50.0	11.0	10		04/14/09 23:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	46.0	10		04/14/09 23:27	637-92-3	
Methyl-tert-butyl ether	**638**	ug/L	50.0	20.0	10		04/14/09 23:27	1634-04-4	
Naphthalene	ND	ug/L	50.0	29.0	10		04/14/09 23:27	91-20-3	
Toluene	ND	ug/L	50.0	18.0	10		04/14/09 23:27	108-88-3	
Xylene (Total)	**447**	ug/L	100	27.0	10		04/14/09 23:27	1330-20-7	
m&p-Xylene	**359**	ug/L	100	27.0	10		04/14/09 23:27	1330-20-7	
o-Xylene	**88.2**	ug/L	50.0	17.0	10		04/14/09 23:27	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		10		04/14/09 23:27	1868-53-7	
Toluene-d8 (S)	99	%	70-120		10		04/14/09 23:27	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		10		04/14/09 23:27	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	79-120		10		04/14/09 23:27	17060-07-0	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-9 **Lab ID: 9241906009** Collected: 04/08/09 12:30 Received: 04/10/09 09:10 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	04/16/09 11:42	04/16/09 23:27	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/16/09 11:42	04/16/09 23:27	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**59.1**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 12:56	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 23:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 23:46	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 23:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 23:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 23:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 23:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 23:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 23:46	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 23:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 23:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 23:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 23:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 23:46	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 23:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 23:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 23:46	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 23:46	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 23:46	1868-53-7	
Toluene-d8 (S)	85	%	70-120		1		04/14/09 23:46	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-109		1		04/14/09 23:46	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	79-120		1		04/14/09 23:46	17060-07-0	

Sample: MW-10 **Lab ID: 9241906010** Collected: 04/08/09 12:40 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/16/09 23:40	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/16/09 11:43	04/16/09 23:40	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:02	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 05:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 05:10	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 05:10	71-43-2	M0,R1

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-10 **Lab ID: 9241906010** Collected: 04/08/09 12:40 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 05:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 05:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 05:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 05:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 05:10	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 05:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 05:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 05:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 05:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 05:10	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 05:10	108-88-3	M0,R1
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 05:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 05:10	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 05:10	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 05:10	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		04/14/09 05:10	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		1		04/14/09 05:10	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		04/14/09 05:10	17060-07-0	

Sample: MW-11 **Lab ID: 9241906011** Collected: 04/08/09 12:50 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/16/09 23:53	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	04/16/09 11:43	04/16/09 23:53	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**10.4**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:15	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 05:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 05:28	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 05:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 05:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 05:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 05:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 05:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 05:28	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 05:28	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 05:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 05:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 05:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 05:28	91-20-3	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-11 **Lab ID: 9241906011** Collected: 04/08/09 12:50 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 05:28	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 05:28	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 05:28	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 05:28	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		1		04/14/09 05:28	1868-53-7	
Toluene-d8 (S)	93	%	70-120		1		04/14/09 05:28	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		04/14/09 05:28	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	79-120		1		04/14/09 05:28	17060-07-0	

Sample: MW-12 **Lab ID: 9241906012** Collected: 04/07/09 11:00 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/17/09 00:07	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/16/09 11:43	04/17/09 00:07	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.3J**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:19	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 05:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 05:46	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 05:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 05:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 05:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 05:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 05:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 05:46	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 05:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 05:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 05:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 05:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 05:46	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 05:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 05:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 05:46	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 05:46	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 05:46	1868-53-7	
Toluene-d8 (S)	98	%	70-120		1		04/14/09 05:46	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		04/14/09 05:46	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	79-120		1		04/14/09 05:46	17060-07-0	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-13 **Lab ID: 9241906013** Collected: 04/08/09 13:00 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/17/09 00:20	106-93-4	
1-Chloro-2-bromopropane (S)	82	%	60-140		1	04/16/09 11:43	04/17/09 00:20	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**10.5**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:23	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 06:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 06:04	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 06:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 06:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 06:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 06:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 06:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 06:04	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 06:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 06:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 06:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 06:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 06:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 06:04	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 06:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 06:04	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 06:04	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		1		04/14/09 06:04	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		04/14/09 06:04	2037-26-5	
4-Bromofluorobenzene (S)	107	%	87-109		1		04/14/09 06:04	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		04/14/09 06:04	17060-07-0	

Sample: MW-14 **Lab ID: 9241906014** Collected: 04/08/09 13:10 Received: 04/10/09 09:10 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)	**0.38**	ug/L	0.019	0.019	1	04/16/09 11:43	04/17/09 00:34	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	04/16/09 11:43	04/17/09 00:34	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:27	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**481**	ug/L	100	62.0	1		04/14/09 06:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 06:22	994-05-8	
Benzene	**152**	ug/L	5.0	1.2	1		04/14/09 06:22	71-43-2	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-14 **Lab ID: 9241906014** Collected: 04/08/09 13:10 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 06:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 06:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 06:22	762-75-4	
1,2-Dichloroethane	**3.1J**	ug/L	5.0	1.3	1		04/14/09 06:22	107-06-2	
Diisopropyl ether	**4.0J**	ug/L	5.0	2.7	1		04/14/09 06:22	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 06:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 06:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 06:22	637-92-3	
Methyl-tert-butyl ether	**163**	ug/L	5.0	2.0	1		04/14/09 06:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 06:22	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 06:22	108-88-3	
Xylene (Total)	**18.6**	ug/L	10.0	2.7	1		04/14/09 06:22	1330-20-7	
m&p-Xylene	**14.3**	ug/L	10.0	2.7	1		04/14/09 06:22	1330-20-7	
o-Xylene	**4.3J**	ug/L	5.0	1.7	1		04/14/09 06:22	95-47-6	
Dibromofluoromethane (S)	92	%	85-115		1		04/14/09 06:22	1868-53-7	
Toluene-d8 (S)	98	%	70-120		1		04/14/09 06:22	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		1		04/14/09 06:22	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	79-120		1		04/14/09 06:22	17060-07-0	

Sample: MW-15 **Lab ID: 9241906015** Collected: 04/08/09 13:20 Received: 04/10/09 09:10 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	04/16/09 11:43	04/17/09 00:47	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/16/09 11:43	04/17/09 00:47	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**21.4**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:30	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 06:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 06:40	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 06:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 06:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 06:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 06:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 06:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 06:40	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 06:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 06:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 06:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 06:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 06:40	91-20-3	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-15 **Lab ID: 9241906015** Collected: 04/08/09 13:20 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 06:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 06:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 06:40	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 06:40	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 06:40	1868-53-7	
Toluene-d8 (S)	87	%	70-120		1		04/14/09 06:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/14/09 06:40	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		04/14/09 06:40	17060-07-0	

Sample: MW-16 **Lab ID: 9241906016** Collected: 04/08/09 13:30 Received: 04/10/09 09:10 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	04/16/09 11:43	04/17/09 01:01	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/16/09 11:43	04/17/09 01:01	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:35	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 06:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 06:59	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 06:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 06:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 06:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 06:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 06:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 06:59	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 06:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 06:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 06:59	637-92-3	
Methyl-tert-butyl ether	**3.0J**	ug/L	5.0	2.0	1		04/14/09 06:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 06:59	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 06:59	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 06:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 06:59	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 06:59	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		1		04/14/09 06:59	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		04/14/09 06:59	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/14/09 06:59	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	79-120		1		04/14/09 06:59	17060-07-0	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-17 **Lab ID: 9241906017** Collected: 04/08/09 13:40 Received: 04/10/09 09:10 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	04/16/09 11:43	04/17/09 01:14	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	04/16/09 11:43	04/17/09 01:14	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.4**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:38	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 07:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 07:17	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 07:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 07:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 07:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 07:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 07:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 07:17	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 07:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 07:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 07:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 07:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 07:17	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 07:17	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 07:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 07:17	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 07:17	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		1		04/14/09 07:17	1868-53-7	
Toluene-d8 (S)	95	%	70-120		1		04/14/09 07:17	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		04/14/09 07:17	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	79-120		1		04/14/09 07:17	17060-07-0	

Sample: MW-18 **Lab ID: 9241906018** Collected: 04/08/09 13:50 Received: 04/10/09 09:10 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	04/16/09 11:43	04/17/09 01:28	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	04/16/09 11:43	04/17/09 01:28	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:42	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 07:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 07:35	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 07:35	71-43-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-18 **Lab ID: 9241906018** Collected: 04/08/09 13:50 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 07:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 07:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 07:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 07:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 07:35	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 07:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 07:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 07:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 07:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 07:35	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 07:35	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 07:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 07:35	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 07:35	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		1		04/14/09 07:35	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		04/14/09 07:35	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/14/09 07:35	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		04/14/09 07:35	17060-07-0	

Sample: MW-19 **Lab ID: 9241906019** Collected: 04/08/09 14:00 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/17/09 01:41	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	04/16/09 11:43	04/17/09 01:41	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.7**	ug/L	5.0	4.0	1	04/14/09 12:51	04/17/09 13:46	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 10:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 10:15	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 10:15	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 10:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 10:15	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 10:15	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 10:15	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 10:15	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 10:15	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 10:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 10:15	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 10:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 10:15	91-20-3	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-19 **Lab ID: 9241906019** Collected: 04/08/09 14:00 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 10:15	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 10:15	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 10:15	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 10:15	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 10:15	1868-53-7	
Toluene-d8 (S)	96	%	70-120		1		04/14/09 10:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/14/09 10:15	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		1		04/14/09 10:15	17060-07-0	

Sample: MW-20 **Lab ID: 9241906020** Collected: 04/08/09 14:10 Received: 04/10/09 09:10 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)	**3.1**	ug/L	0.097	0.097	5	04/16/09 11:43	04/17/09 10:31	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		5	04/16/09 11:43	04/17/09 10:31	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.5**	ug/L	5.0	4.0	1	04/14/09 12:52	04/17/09 18:33	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**9360**	ug/L	100	62.0	1		04/14/09 10:33	75-85-4	E
tert-Amylmethyl ether	**10.8**	ug/L	10.0	4.5	1		04/14/09 10:33	994-05-8	
Benzene	**3940**	ug/L	1000	240	200		04/15/09 00:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 10:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 10:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 10:33	762-75-4	
1,2-Dichloroethane	**46.8**	ug/L	5.0	1.3	1		04/14/09 10:33	107-06-2	
Diisopropyl ether	**52.9**	ug/L	5.0	2.7	1		04/14/09 10:33	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 10:33	64-17-5	
Ethylbenzene	**690J**	ug/L	1000	220	200		04/15/09 00:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 10:33	637-92-3	
Methyl-tert-butyl ether	**5060**	ug/L	1000	400	200		04/15/09 00:04	1634-04-4	
Naphthalene	**127**	ug/L	5.0	2.9	1		04/14/09 10:33	91-20-3	
Toluene	**16900**	ug/L	1000	360	200		04/15/09 00:04	108-88-3	
Xylene (Total)	**5260**	ug/L	2000	540	200		04/15/09 00:04	1330-20-7	
m&p-Xylene	**3910**	ug/L	2000	540	200		04/15/09 00:04	1330-20-7	
o-Xylene	**1350**	ug/L	1000	340	200		04/15/09 00:04	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 10:33	1868-53-7	
Toluene-d8 (S)	72	%	70-120		1		04/14/09 10:33	2037-26-5	
4-Bromofluorobenzene (S)	109	%	87-109		1		04/14/09 10:33	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		04/14/09 10:33	17060-07-0	

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-21 **Lab ID: 9241906021** Collected: 04/08/09 14:20 Received: 04/10/09 09:10 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)	**0.75**	ug/L	0.020	0.020	1	04/16/09 11:43	04/17/09 02:08	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140		1	04/16/09 11:43	04/17/09 02:08	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**11.8**	ug/L	5.0	4.0	1	04/14/09 12:52	04/17/09 18:41	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**9620**	ug/L	5000	3100	50		04/15/09 00:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	225	50		04/15/09 00:22	994-05-8	
Benzene	**3620**	ug/L	250	60.0	50		04/15/09 00:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		04/15/09 00:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1350	50		04/15/09 00:22	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		04/15/09 00:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		04/15/09 00:22	107-06-2	
Diisopropyl ether	ND	ug/L	250	135	50		04/15/09 00:22	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		04/15/09 00:22	64-17-5	
Ethylbenzene	**90.0J**	ug/L	250	55.0	50		04/15/09 00:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		04/15/09 00:22	637-92-3	
Methyl-tert-butyl ether	**1360**	ug/L	250	100	50		04/15/09 00:22	1634-04-4	
Naphthalene	ND	ug/L	250	145	50		04/15/09 00:22	91-20-3	
Toluene	ND	ug/L	250	90.0	50		04/15/09 00:22	108-88-3	
Xylene (Total)	**3390**	ug/L	500	135	50		04/15/09 00:22	1330-20-7	
m&p-Xylene	**2900**	ug/L	500	135	50		04/15/09 00:22	1330-20-7	
o-Xylene	**493**	ug/L	250	85.0	50		04/15/09 00:22	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		50		04/15/09 00:22	1868-53-7	
Toluene-d8 (S)	98	%	70-120		50		04/15/09 00:22	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		50		04/15/09 00:22	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	79-120		50		04/15/09 00:22	17060-07-0	

Sample: MW-22 **Lab ID: 9241906022** Collected: 04/08/09 14:30 Received: 04/10/09 09:10 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	04/16/09 11:43	04/17/09 02:21	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	04/16/09 11:43	04/17/09 02:21	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**15.9**	ug/L	5.0	4.0	1	04/14/09 12:52	04/17/09 18:49	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2470**	ug/L	100	62.0	1		04/14/09 11:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 11:09	994-05-8	
Benzene	**414**	ug/L	25.0	6.0	5		04/15/09 00:40	71-43-2	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: MW-22 **Lab ID: 9241906022** Collected: 04/08/09 14:30 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 11:09	624-95-3	
tert-Butyl Alcohol	**347**	ug/L	100	27.0	1		04/14/09 11:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 11:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 11:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 11:09	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 11:09	64-17-5	
Ethylbenzene	**2.3J**	ug/L	5.0	1.1	1		04/14/09 11:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 11:09	637-92-3	
Methyl-tert-butyl ether	**45.2**	ug/L	5.0	2.0	1		04/14/09 11:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 11:09	91-20-3	
Toluene	**4.2J**	ug/L	5.0	1.8	1		04/14/09 11:09	108-88-3	
Xylene (Total)	**169**	ug/L	10.0	2.7	1		04/14/09 11:09	1330-20-7	
m&p-Xylene	**140**	ug/L	10.0	2.7	1		04/14/09 11:09	1330-20-7	
o-Xylene	**29.4**	ug/L	5.0	1.7	1		04/14/09 11:09	95-47-6	
Dibromofluoromethane (S)	98	%	85-115		1		04/14/09 11:09	1868-53-7	
Toluene-d8 (S)	98	%	70-120		1		04/14/09 11:09	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		04/14/09 11:09	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		1		04/14/09 11:09	17060-07-0	

Sample: DW-1 **Lab ID: 9241906023** Collected: 04/08/09 14:50 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/17/09 02:35	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	04/16/09 11:43	04/17/09 02:35	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:52	04/17/09 19:03	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/15/09 00:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/15/09 00:58	994-05-8	
Benzene	**1.3J**	ug/L	5.0	1.2	1		04/15/09 00:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/15/09 00:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/15/09 00:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/15/09 00:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/15/09 00:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/15/09 00:58	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/15/09 00:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/15/09 00:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/15/09 00:58	637-92-3	
Methyl-tert-butyl ether	**2.7J**	ug/L	5.0	2.0	1		04/15/09 00:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/15/09 00:58	91-20-3	

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9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9241906

Sample: DW-1 **Lab ID: 9241906023** Collected: 04/08/09 14:50 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		04/15/09 00:58	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/15/09 00:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/15/09 00:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/15/09 00:58	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/15/09 00:58	1868-53-7	
Toluene-d8 (S)	95	%	70-120		1		04/15/09 00:58	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		04/15/09 00:58	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	79-120		1		04/15/09 00:58	17060-07-0	

Sample: DW-2 **Lab ID: 9241906024** Collected: 04/08/09 15:10 Received: 04/10/09 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/16/09 11:43	04/17/09 02:48	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/16/09 11:43	04/17/09 02:48	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	04/14/09 12:52	04/17/09 19:06	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		04/14/09 11:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		04/14/09 11:46	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		04/14/09 11:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		04/14/09 11:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		04/14/09 11:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		04/14/09 11:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/14/09 11:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		04/14/09 11:46	108-20-3	
Ethanol	ND	ug/L	200	170	1		04/14/09 11:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/14/09 11:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		04/14/09 11:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/14/09 11:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/14/09 11:46	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/14/09 11:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/14/09 11:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/14/09 11:46	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/14/09 11:46	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		04/14/09 11:46	1868-53-7	
Toluene-d8 (S)	96	%	70-120		1		04/14/09 11:46	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/14/09 11:46	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		04/14/09 11:46	17060-07-0	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: MPRP/4144 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9241906003, 9241906004, 9241906005, 9241906006, 9241906007, 9241906008, 9241906009, 9241906010, 9241906011, 9241906012, 9241906013, 9241906014, 9241906015, 9241906016, 9241906017, 9241906018, 9241906019

METHOD BLANK: 262796 Matrix: Water
Associated Lab Samples: 9241906003, 9241906004, 9241906005, 9241906006, 9241906007, 9241906008, 9241906009, 9241906010, 9241906011, 9241906012, 9241906013, 9241906014, 9241906015, 9241906016, 9241906017, 9241906018, 9241906019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	04/17/09 12:00	

LABORATORY CONTROL SAMPLE: 262797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE SAMPLE: 262798

Parameter	Units	9241974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	508	101	75-125	

SAMPLE DUPLICATE: 262799

Parameter	Units	9241974002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: OEXT/6445 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9241906007, 9241906008, 9241906009, 9241906010, 9241906011, 9241906012, 9241906013, 9241906014, 9241906015, 9241906016, 9241906017, 9241906018, 9241906019, 9241906020, 9241906021, 9241906022, 9241906023, 9241906024

METHOD BLANK: 263388 Matrix: Water
Associated Lab Samples: 9241906007, 9241906008, 9241906009, 9241906010, 9241906011, 9241906012, 9241906013, 9241906014, 9241906015, 9241906016, 9241906017, 9241906018, 9241906019, 9241906020, 9241906021, 9241906022, 9241906023, 9241906024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/16/09 21:39	
1-Chloro-2-bromopropane (S)	%	105	60-140	04/16/09 21:39	

LABORATORY CONTROL SAMPLE & LCSD: 263389 263390

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	0.34	0.32	118	114	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				104	104	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 263391 263392

Parameter	Units	9241906007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.32	0.32	114	116	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						112	115	60-140			

SAMPLE DUPLICATE: 263393

Parameter	Units	9241906008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.34	0.35	5	20	
1-Chloro-2-bromopropane (S)	%		87	2		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: OEXT/6444 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9241906003, 9241906004, 9241906005, 9241906006

METHOD BLANK: 263378 Matrix: Water
Associated Lab Samples: 9241906003, 9241906004, 9241906005, 9241906006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/16/09 15:33	
1-Chloro-2-bromopropane (S)	%	95	60-140	04/16/09 15:33	

LABORATORY CONTROL SAMPLE & LCSD: 263379 263380

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	0.33	0.31	116	108	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				98	98	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 263381 263382

Parameter	Units	9241491001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.35	0.35	122	124	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						106	107	60-140			

SAMPLE DUPLICATE: 263383

Parameter	Units	9241491002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		93	5		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: MSV/6668 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9241906001, 9241906002, 9241906003, 9241906004, 9241906005, 9241906006, 9241906007, 9241906008, 9241906009

METHOD BLANK: 262572 Matrix: Water
Associated Lab Samples: 9241906001, 9241906002, 9241906003, 9241906004, 9241906005, 9241906006, 9241906007, 9241906008, 9241906009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/14/09 16:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/14/09 16:08	
Benzene	ug/L	ND	5.0	04/14/09 16:08	
Diisopropyl ether	ug/L	ND	5.0	04/14/09 16:08	
Ethanol	ug/L	ND	200	04/14/09 16:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/14/09 16:08	
Ethylbenzene	ug/L	ND	5.0	04/14/09 16:08	
m&p-Xylene	ug/L	ND	10.0	04/14/09 16:08	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/14/09 16:08	
Naphthalene	ug/L	ND	5.0	04/14/09 16:08	
o-Xylene	ug/L	ND	5.0	04/14/09 16:08	
tert-Amyl Alcohol	ug/L	ND	100	04/14/09 16:08	
tert-Amylmethyl ether	ug/L	ND	10.0	04/14/09 16:08	
tert-Butyl Alcohol	ug/L	ND	100	04/14/09 16:08	
tert-Butyl Formate	ug/L	ND	50.0	04/14/09 16:08	
Toluene	ug/L	ND	5.0	04/14/09 16:08	
Xylene (Total)	ug/L	ND	10.0	04/14/09 16:08	
1,2-Dichloroethane-d4 (S)	%	87	79-120	04/14/09 16:08	
4-Bromofluorobenzene (S)	%	104	87-109	04/14/09 16:08	
Dibromofluoromethane (S)	%	93	85-115	04/14/09 16:08	
Toluene-d8 (S)	%	97	70-120	04/14/09 16:08	

LABORATORY CONTROL SAMPLE: 262573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.2	92	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	609	61	55-148	
Benzene	ug/L	50	50.1	100	78-128	
Diisopropyl ether	ug/L	50	43.9	88	74-131	
Ethanol	ug/L	2000	1570	79	53-150	
Ethyl-tert-butyl ether	ug/L	100	89.5	89	77-136	
Ethylbenzene	ug/L	50	49.2	98	80-127	
m&p-Xylene	ug/L	100	98.5	98	82-127	
Methyl-tert-butyl ether	ug/L	50	45.6	91	71-130	
Naphthalene	ug/L	50	47.8	96	52-136	
o-Xylene	ug/L	50	48.5	97	83-124	
tert-Amyl Alcohol	ug/L	1000	632	63	50-150	
tert-Amylmethyl ether	ug/L	100	92.4	92	50-150	
tert-Butyl Alcohol	ug/L	500	331	66	50-150	
tert-Butyl Formate	ug/L	400	357	89	50-150	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

LABORATORY CONTROL SAMPLE: 262573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.5	101	76-126	
Xylene (Total)	ug/L	150	147	98	83-125	
1,2-Dichloroethane-d4 (S)	%			88	79-120	
4-Bromofluorobenzene (S)	%			107	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 262590 262591

Parameter	Units	9241946001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	46.0	50.4	92	101	74-136	9	30	
Toluene	ug/L	ND	50	50	44.4	48.5	89	97	73-131	9	30	
1,2-Dichloroethane-d4 (S)	%						89	89	79-120			
4-Bromofluorobenzene (S)	%						101	101	87-109			
Dibromofluoromethane (S)	%						96	94	85-115			
Toluene-d8 (S)	%						98	97	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: OEXT/6443 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9241906001, 9241906002

METHOD BLANK: 263372 Matrix: Water
Associated Lab Samples: 9241906001, 9241906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/16/09 00:34	
1-Chloro-2-bromopropane (S)	%	102	60-140	04/16/09 00:34	

LABORATORY CONTROL SAMPLE & LCSD: 263373 263374

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	0.30	0.31	106	108	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				101	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 263375 263376

Parameter	Units	9241906001 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	35.2	.27	.27	34.0	33.9	-419	-461	60-140	.3	20	P6
1-Chloro-2-bromopropane (S)	%						115	115	60-140			

SAMPLE DUPLICATE: 263377

Parameter	Units	9241906002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		87	3		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: MPRP/4140
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9241906001, 9241906002

METHOD BLANK: 262639 Matrix: Water
Associated Lab Samples: 9241906001, 9241906002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	04/16/09 18:27	

LABORATORY CONTROL SAMPLE: 262640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	428	86	80-120	

MATRIX SPIKE SAMPLE: 262641

Parameter	Units	9241950006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	419	84	75-125	

SAMPLE DUPLICATE: 262642

Parameter	Units	9241950007 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: MSV/6672 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9241906010, 9241906011, 9241906012, 9241906013, 9241906014, 9241906015, 9241906016, 9241906017, 9241906018, 9241906019, 9241906020, 9241906021, 9241906022, 9241906023, 9241906024

METHOD BLANK: 262655 Matrix: Water
Associated Lab Samples: 9241906010, 9241906011, 9241906012, 9241906013, 9241906014, 9241906015, 9241906016, 9241906017, 9241906018, 9241906019, 9241906020, 9241906021, 9241906022, 9241906023, 9241906024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/14/09 04:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/14/09 04:15	
Benzene	ug/L	ND	5.0	04/14/09 04:15	
Diisopropyl ether	ug/L	ND	5.0	04/14/09 04:15	
Ethanol	ug/L	ND	200	04/14/09 04:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/14/09 04:15	
Ethylbenzene	ug/L	ND	5.0	04/14/09 04:15	
m&p-Xylene	ug/L	ND	10.0	04/14/09 04:15	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/14/09 04:15	
Naphthalene	ug/L	ND	5.0	04/14/09 04:15	
o-Xylene	ug/L	ND	5.0	04/14/09 04:15	
tert-Amyl Alcohol	ug/L	ND	100	04/14/09 04:15	
tert-Amylmethyl ether	ug/L	ND	10.0	04/14/09 04:15	
tert-Butyl Alcohol	ug/L	ND	100	04/14/09 04:15	
tert-Butyl Formate	ug/L	ND	50.0	04/14/09 04:15	
Toluene	ug/L	ND	5.0	04/14/09 04:15	
Xylene (Total)	ug/L	ND	10.0	04/14/09 04:15	
1,2-Dichloroethane-d4 (S)	%	93	79-120	04/14/09 04:15	
4-Bromofluorobenzene (S)	%	107	87-109	04/14/09 04:15	
Dibromofluoromethane (S)	%	96	85-115	04/14/09 04:15	
Toluene-d8 (S)	%	98	70-120	04/14/09 04:15	

LABORATORY CONTROL SAMPLE: 262656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	626	63	55-148	
Benzene	ug/L	50	50.7	101	78-128	
Diisopropyl ether	ug/L	50	45.7	91	74-131	
Ethanol	ug/L	2000	1750	88	53-150	
Ethyl-tert-butyl ether	ug/L	100	94.3	94	77-136	
Ethylbenzene	ug/L	50	49.0	98	80-127	
m&p-Xylene	ug/L	100	97.6	98	82-127	
Methyl-tert-butyl ether	ug/L	50	49.3	99	71-130	
Naphthalene	ug/L	50	48.3	97	52-136	
o-Xylene	ug/L	50	48.7	97	83-124	
tert-Amyl Alcohol	ug/L	1000	693	69	50-150	
tert-Amylmethyl ether	ug/L	100	98.9	99	50-150	
tert-Butyl Alcohol	ug/L	500	363	73	50-150	
tert-Butyl Formate	ug/L	400	363	91	50-150	

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(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

LABORATORY CONTROL SAMPLE: 262656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.6	101	76-126	
Xylene (Total)	ug/L	150	146	98	83-125	
1,2-Dichloroethane-d4 (S)	%			91	79-120	
4-Bromofluorobenzene (S)	%			110	87-109	S0
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 262694 262695

Parameter	Units	9241906010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	26.9	43.5	54	87	74-136	47	30	M0,R1
Toluene	ug/L	ND	50	50	25.5	41.9	51	84	73-131	49	30	M0,R1
1,2-Dichloroethane-d4 (S)	%						91	90	79-120			
4-Bromofluorobenzene (S)	%						103	105	87-109			
Dibromofluoromethane (S)	%						96	93	85-115			
Toluene-d8 (S)	%						98	98	70-120			

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9241906

QC Batch: MPRP/4145 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9241906020, 9241906021, 9241906022, 9241906023, 9241906024

METHOD BLANK: 262800 Matrix: Water
Associated Lab Samples: 9241906020, 9241906021, 9241906022, 9241906023, 9241906024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	04/17/09 18:27	

LABORATORY CONTROL SAMPLE: 262801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	537	107	80-120	

MATRIX SPIKE SAMPLE: 262802

Parameter	Units	9241906020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	5.5	500	500	99	75-125	

SAMPLE DUPLICATE: 262803

Parameter	Units	9241906021 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	11.8	11.0	7	20	

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9241906

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

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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Chain-of-Custody / Analytical Request Document

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

Page: 1 of 2

1305652

Section A Required Client Information:
Company: KLM Env.
Address: PO Box 2704
Goose Creek SC 29445
Email To: mkeller131@comcast.net
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Mark Keller
Copy To:
Purchase Order No.:
Project Name: Short Stop
Project Number:

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

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER
Site Location: STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEXNM	12-DCA	Lead	EDB	8 oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G	4/8/09			1110												X	X	X	X	X		9241906001
2	MW-2						1120																		002
3	MW-3						1130																		003
4	MW-4						1140																		004
5	MW-5						1150																		005
6	MW-6						1200																		006
7	MW-7						1210																		007
8	MW-8						1220																		008
9	MW-9						1230																		009
10	MW-10						1240																		010
11	MW-11						1250																		011
12	MW-12						1100																		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	4/8/09	1700	[signature]	4/10/09	910	3.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

*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

8437971893

APR-10-2009 03:05 PM KLM Environmental INC

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1305650

Section A Required Client Information:

Company: KLM Env
Address: PO Box 2704
Goose Creek SC 29445
Email To: mkeller131@comcast.net
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Keller
Copy To:
Purchase Order No.:
Project Name: Short Stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Y/N	BTEX w/MTBE	1,2 DCA	Lead	EDB	8 Oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13	WT	G	4/8/09			1300												X	X	X	X	X		9241906013
2	MW-14						1310																		014
3	MW-15						1320																		015
4	MW-16						1330																		016
5	MW-17						1340																		017
6	MW-18						1350																		018
7	MW-19						1400																		019
8	MW-20						1410																		020
9	MW-21						1420																		021
10	MW-22						1430																		022
11	DW-1						1450																		023
12	DW-2	WT	G				1510																		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		4/9/09	1700		4/10/09	910	3.0	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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

Pace Analytical

Sample Condition Upon Receipt

Client Name: KLM Project # 9241906

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other ____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.0 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Date and Initials of person examining contents: JET 04/10/09

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N / N/A

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: [signature] Date: 4/13/09

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

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-1R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ~~29~~ 40 ft.

Depth to GW (DWG) 29.04 ft.

Length of Water Column (LWC=TWD-DGW) 10.96 ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 1.7 gals.
3 Csg. Volumes = 3 x _____ = 5.3 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling [illegible] gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2							
Time (military)								
pH (s.u.)	5.91							
Specific Cond. (mS/cm)	.133							
Turbidity (*)	174							
Dissolved Oxygen	2.53							
Water Temp (°C)	19.4							
Salinity	0.06							
OVA Readings								

Sample Time: DUP @ 3.5

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09.
Field Personnel J. Boots / T. Crozier / D. Noungso.
General Weather Condition _____.
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- ~~[illegible]~~ 2R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) ~~34~~ 30.45 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	4.95							
Specific Cond. (mS/cm)	.159							
Turbidity (*)	999							
Dissolved Oxygen	3.02							
Water Temp (°C)	14.3							
Salinity	0.00							
OVA Readings								

Sample Time:

serverC/admin/DHECfielddatasht/doc.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-~~BB~~ 3R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 30.51 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.22							
Specific Cond. (mS/cm)	.152							
Turbidity (*)	999							
Dissolved Oxygen	3.15							
Water Temp (°C)	16.9							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 29.66 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.32							
Specific Cond. (mS/cm)	.201							
Turbidity (*)	999							
Dissolved Oxygen	3.80							
Water Temp (°C)	15.6							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-~~3~~ 5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 30.55 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.14							
Specific Cond. (mS/cm)	.078							
Turbidity (*)	999							
Dissolved Oxygen	2.70							
Water Temp (°C)	17.5							
Salinity	0.06							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09.
Field Personnel J. Boots / T. Crozier / D. Noungso.
General Weather Condition _____.
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 28.92 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.45							
Specific Cond. (mS/cm)	.092							
Turbidity (*)	551							
Dissolved Oxygen	6.96							
Water Temp (°C)	16.8							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 28.05 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	7.94							
Specific Cond. (mS/cm)	.694							
Turbidity (*)	335							
Dissolved Oxygen	3.96							
Water Temp (°C)	18.9							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 27.44 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.23							
Specific Cond. (mS/cm)	.074							
Turbidity (*)	999							
Dissolved Oxygen	3.35							
Water Temp (°C)	16.3							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09.
Field Personnel J. Boots / T. Crozier / D. Noungso.
General Weather Condition _____.
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 27.71 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.23							
Specific Cond. (mS/cm)	.121							
Turbidity (*)	999							
Dissolved Oxygen	6.94							
Water Temp (°C)	16.9							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09.
Field Personnel J. Boots / T. Crozier / D. Noungso.
General Weather Condition _____.
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 27.94 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.61							
Specific Cond. (mS/cm)	.234							
Turbidity (*)	727							
Dissolved Oxygen	4.16							
Water Temp (°C)	17.9							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 26.22 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.23							
Specific Cond. (mS/cm)	.099							
Turbidity (*)	999							
Dissolved Oxygen	5.64							
Water Temp (°C)	19.3							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.98 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.
1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)
Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)								
pH (s.u.)	7.03							
Specific Cond. (mS/cm)	.055							
Turbidity (*)	999							
Dissolved Oxygen	5.13							
Water Temp (°C)	18.8							
Salinity	0.00							
OVA Readings	—							

Sample Time: 1100

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 27.90 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	[redacted]							
pH (s.u.)	4.95							
Specific Cond. (mS/cm)	.099							
Turbidity (*)	999							
Dissolved Oxygen	5.34							
Water Temp (°C)	20.3							
Salinity	0.0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 46 ft.

Depth to GW (DWG) 29.43 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.34							
Specific Cond. (mS/cm)	.145							
Turbidity (*)	999							
Dissolved Oxygen	3.10							
Water Temp (°C)	19.4							
Salinity	0.0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 31 ft.

Depth to GW (DWG) 21.90 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.97							
Specific Cond. (mS/cm)	.151							
Turbidity (*)	999							
Dissolved Oxygen	3.82							
Water Temp (°C)	19.2							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 39 ft.

Depth to GW (DWG) 28.34 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.76							
Specific Cond. (mS/cm)	.147							
Turbidity (*)	200							
Dissolved Oxygen	5.21							
Water Temp (°C)	19.9							
Salinity	0.0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 28.56 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.46							
Specific Cond. (mS/cm)	.119							
Turbidity (*)	999							
Dissolved Oxygen	4.34							
Water Temp (°C)	21.3							
Salinity	0.00							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. _____ — serial no. _____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 25.21 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.17							
Specific Cond. (mS/cm)	.160							
Turbidity (*)	61.7							
Dissolved Oxygen	5.96							
Water Temp (°C)	17.8							
Salinity	0.06							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-~~11~~ 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.

Depth to GW (DWG) 28.12 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	.							
pH (s.u.)	5.64							
Specific Cond. (mS/cm)	.291							
Turbidity (*)	141							
Dissolved Oxygen	5.71							
Water Temp (°C)	18.1							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 20

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 46 ft.

Depth to GW (DWG) 30.12 ft.

Length of Water Column (LWC=TWD-DGW) 9.88 ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 1.6 gals.
3 Csg. Volumes = 3 x _____ = 4.8 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2							
Time (military)								
pH (s.u.)	5.79							
Specific Cond. (mS/cm)	.322							
Turbidity (*)	150							
Dissolved Oxygen	10.50 [redacted]							
Water Temp (°C)	19.7							
Salinity	0.00							
OVA Readings								

Sample Time:

Dry at 2.5 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 21

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.

Depth to GW (DWG) 28.10 ft.

Length of Water Column (LWC=TWD-DGW) [illegible] ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 1.93 gals.
3 Csg. Volumes = 3 x _____ = 5.8 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4						
Time (military)								
pH (s.u.)	[illegible] 4.45	4.41						
Specific Cond. (mS/cm)	[illegible] .602	.603						
Turbidity (*)	[illegible]	1.54						
Dissolved Oxygen	[illegible] 11.89	11.61						
Water Temp (°C)	[illegible]	19.1						
Salinity	0.00	0.06						
OVA Readings	—							

Sample Time: Dry at 4.5 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 46 ft.

Depth to GW (DWG) 26.95 ft.

Length of Water Column (LWC=TWD-DGW) 13.05 ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 2.12 gals.
3 Csg. Volumes = 3 x _____ = 6.38 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2							
Time (military)								
pH (s.u.)	6.00	5.91						
Specific Cond. (mS/cm)	.144	.146						
Turbidity (*)	999	[redacted]277						
Dissolved Oxygen	2.57	2.81						
Water Temp (°C)	18.5	16.3						
Salinity	0.00	0.00						
OVA Readings	—							

Sample Time: Dry at 4.25 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # ~~MW-~~ DW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ~~60~~ 63 ft.

Depth to GW (DWG) 27.75 ft.

Length of Water Column (LWC=TWD-DGW) 35.25 ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 5.7 gals.
3 Csg. Volumes = 3 x _____ = 17.5 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	6							
Time (military)								
pH (s.u.)	5.75							
Specific Cond. (mS/cm)	.190							
Turbidity (*)	157							
Dissolved Oxygen	4.82							
Water Temp (°C)	18.2							
Salinity	0.00							
OVA Readings	—							

Sample Time: Dry at 6 gallon

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/08/09
Field Personnel J. Boots / T. Crozier / D. Noungso
General Weather Condition _____
Ambient Air Temperature _____ °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # ~~MW~~ DW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 21.90 ft.
Length of Water Column (LWC=TWD-DGW) 38.10 ft.
1 Csg. Volume (LWC*C)= _____ x .163 = 6.2 gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)
Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	6.0	12.4	18					
Time (military)								
pH (s.u.)	6.49	* 6.39	6.35					
Specific Cond. (mS/cm)	.161	1.59	1.73 ,173					
Turbidity (*)	178	599	273					
Dissolved Oxygen	9.98	2.48	3.33					
Water Temp (°C)	17.9	19.2	15.6					
Salinity	0.00	0.00	0.00					
OVA Readings	—							

Sample Time:

US Water Recovery

Non-Hazardous Wastewater Manifest Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: I-26 One Stop
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: KLM Enviromental
PO Box 2704 Goose Creek S.C. 29445
Phone (843) 870-4285
P O #:

4. Transporter Company Name: Vaccum Recovery Tech
118 Springhall Dr. Suite E Goose Creek S.C. 29445
Phone (843) 906-8759
Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:
U S Water Recovery
435 Old Mt. Holly Rd.
Mt. Holly, SC 29445
Phone: (843) 797-8674
Fax: (843) 797-2126

Mailing Address:
U S Water Recovery
511 Old Mt. Holly Rd.
Goose Creek, SC 29445
Phone: (843) 797-3111
Fax: (843) 797-0710

7. Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number

8. U.S. DOT Desciption	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				1364
Seaboard				47
Short Stop				39

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Jason Boots Signature: Jason Boots Date: 4-21-09

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Wayne Infinger Signature: Wayne Infinger Date: 4-21-09

11. Discrepancy indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: David Ward Signature: David Ward Date: 4-21-09

White - Facility Yellow - Transporter Pink - Generator

3925

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address — Generator's Site Address (if different than mailing address)

KDM Environmental
c/o 262 Factory Rd
Walterboro SC 29488

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

KDM Environmental

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

KDM
36 Chanwater Dr
Walterboro, SC 29488

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Short Stop, Clinton SC Drill Cuttings	6	55			
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: KDM Environmental — Signature — Month: 7 Day: 7 Year: 08

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: KDM Environmental — Signature — Month: 7 Day: 7 Year: 08

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

TABLE 1
Historical Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
	4/8/09			--	30.45	74.66
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
	4/8/09			--	30.51	75.16
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
	4/8/09			--	29.60	74.84
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
	4/8/09			--	30.55	75.07
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
	4/8/09			--	28.92	74.95
MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
	4/8/09			--	28.05	74.50
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
	4/8/09			--	27.44	74.38
MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
	4/8/09			--	27.71	74.32
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
	4/8/09			--	27.94	74.36
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
	4/8/09			--	26.22	74.23
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
	4/8/09			--	27.98	74.42

TABLE 1 CONT.
Historical Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
	4/8/09			--	27.90	74.01
MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
	4/8/09			--	28.43	73.34
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
	4/8/09			--	21.90	72.70
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82
	4/8/09			--	28.34	72.92
MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
	4/8/09			--	28.50	73.19
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
	4/8/09			--	25.21	72.98
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
	4/8/09			--	28.12	78.74
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
	4/8/09			--	27.75	74.48
DW-2	12/8/08	94.62	40-60	--	23.31	71.31
	4/8/09			--	21.90	72.72

RECEIVED

MAY 12 2009

UNDERGROUND STORAGE TANK PROGRAM

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-1000

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Sto[
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-1R

4. ABANDONIMENT: ☐ Yes ☒ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
Tanish orange sandy clay	0 ft	35 ft
Moist tarnish orange sandy clay	35 ft	40 ft
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22580

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: 4/7/2009
40 ft ft. Date Completed: 4/7/2009

10. CASING: ☒ Threaded ☐ Welded
Diam.:
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
263 Railroad Avenue in. to 20 ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20
Set Between: 20 ft. and 40 ft NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app 30' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18 ft. to 40 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 4/9/2009

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

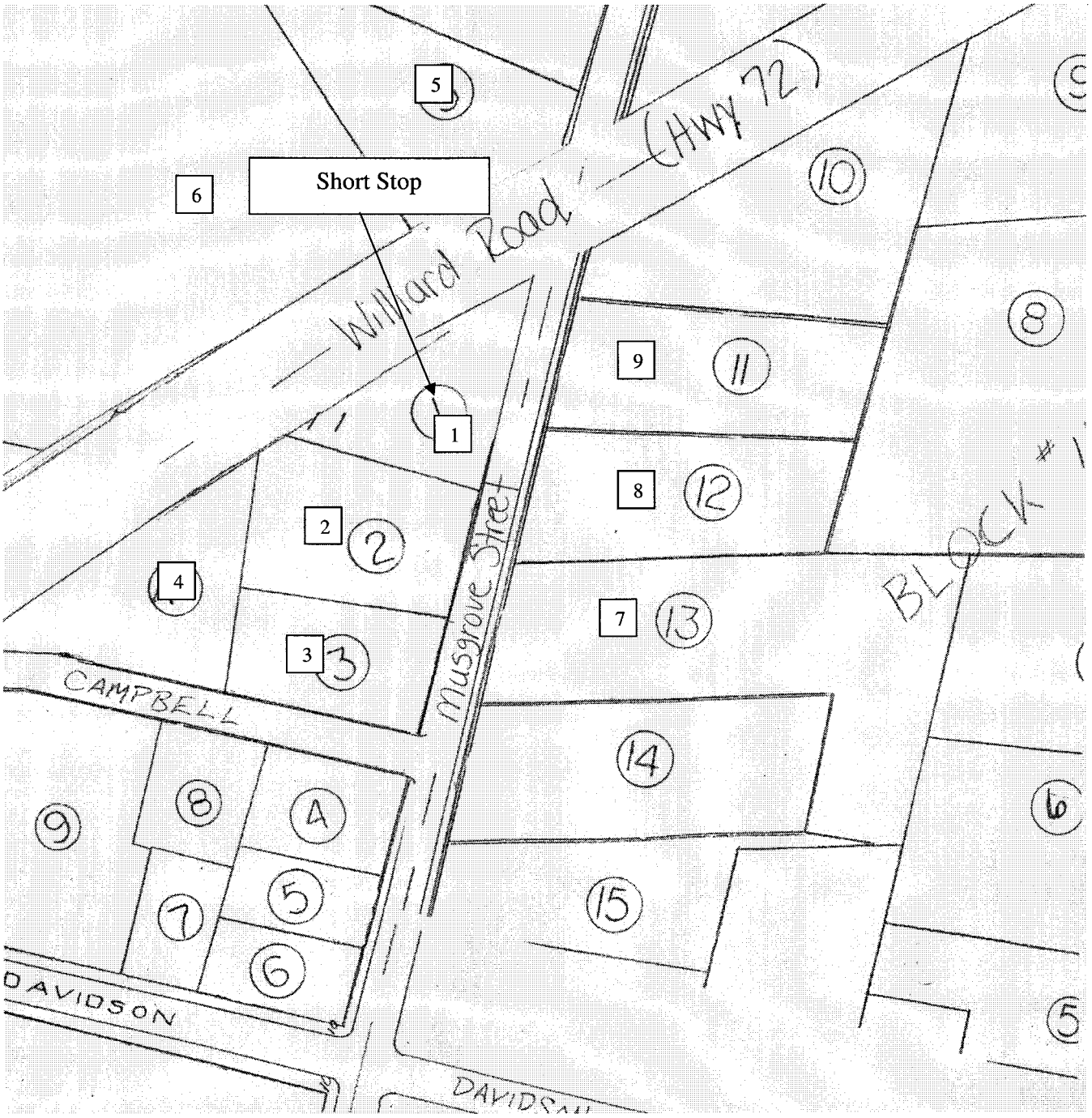
DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

11A
UST DOCKET

UST # 05678

#1	
Parcel #	901-10-01-001
Tax Bill Mailing Address	PO Box 556 Lavonia, GA 30553
Current Owner	Art Gast
#2	
Parcel #	901-10-01-002
Tax Bill Mailing Address	PO Box 481 Clinton, SC 29325
Current Owner	Authur State Bank
#3	
Parcel #	901-10-01-003
Tax Bill Mailing Address	607 Musgrove St. Clinton, SC 29325
Current Owner	Mary Madden
#4	
Parcel #	901-10-01-044
Tax Bill Mailing Address	200 Willard Road Clinton, SC 29325
Current Owner	Harry Agnew
#5	
Parcel #	901-11-01-005
Tax Bill Mailing Address	PO Box 625 Clinton, SC 29325
Current Owner	Richard Sanders
#6	
Parcel #	901-11-01-006
Tax Bill Mailing Address	PO Box 36 Fountain Inn, SC 29644
Current Owner	Clinton Plaza, LLC
#7	
Parcel #	901-07-11-013
Tax Bill Mailing Address	PO Box 65 Clinton, SC 29325
Current Owner	William Ainsworth
#8	
Parcel #	901-01-11-012
Tax Bill Mailing Address	This is an abandoned / condemned house
Current Owner	
#9	
Parcel #	901-07-11-011
Tax Bill Mailing Address	PO Box 389 Clinton, SC 29325
Current Owner	David Jones & Angela Roce

12 tech
UST
DOCKET



KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Tax Map Location
Short Stop
Clinton, SC
Project # 05143.2

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

UST DOCKET 13tech

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

DEC 10 2009

Re: MW installation and sampling directive
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA # 36675
Release reported December 30, 1991
Assessment Report received April 24, 2009
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Management Division recognizes your commitment to continue work at this site using KLM Environmental, LLC. as your contractor. The next appropriate scope of work at the site is to conduct a comprehensive groundwater sampling event.

All monitoring wells should be sampled for BTEX+naph+MtBE+DCA and the 8 oxygenates (EPA Method 8260), EDB (EPA Method 8011) and lead (no-purge sample, EPA Method 6010). Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

The UST Division requires that laboratories be certified through the SCDHEC Office of Environmental Laboratory Certification for the oxygenate compounds. The UST Division will no longer reimburse costs for oxygenate analysis for any laboratory that is not certified. Detailed information regarding the oxygenate certification can be found on the UST Guidance Documents webpage. (http://www.scdhec.gov/environment/envserv/docs/OxygenateCertification.pdf. The document can also be accessed from the UST documents page at http://www.scdhec.net/environment/lwm/forms/). Any laboratory with questions regarding the certification requirements, should contact the Office of Environmental Laboratory Certification at (803) 896-0970.

Cost Agreement # 36675 has been approved in the amount shown on the enclosed cost agreement form for the sampling. Your contractor should submit sampling results to the Division in a monitoring report containing information stipulated in the monitoring well approval and the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report should also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to ground water, measurable free-phase product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Division, presented in tabular form. Groundwater laboratory analytical data for all monitoring wells presented in tabular format.

- A groundwater elevation contour map of the site based on current potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

KLM Environmental, LLC. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

The monitoring report and invoice are due within 60 days from the date of this letter. An interim invoice may not be submitted for this scope of work. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

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

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. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit # 05678. If there are any questions concerning this project, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: KLM Environmental, LLC., PO Box 2704, Goose Creek, SC 29445 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 36675

Facility: 05678 SHORT STOP
BRINEYSM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION					
		A GROUND WATER	2.0000	55.00	110.00
		D GROUNDWATER NO-PURGE	22.0000	35.00	770.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	24.0000	100.00	2,400.00
		BB 1,2-DCA	24.0000	10.75	258.00
		E LEAD	24.0000	20.00	480.00
		F EDB	24.0000	55.00	1,320.00
		P 8 OXYGENATES	24.0000	85.00	2,040.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	2.0000	90.00	180.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	8,138.00	1,220.70
			Total Amount		9,358.70

UST
JAN 19 2010
PROGRAM

JANUARY 2010 MONITORING REPORT

Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

January 15th, 2010

UST
DOCKET
14

Prepared for:

Ms. Stephanie Briney
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC
UCC-0345
Post Office Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*

Project# 05143.4

SIGNATURE PAGE

This report entitled **"JANUARY 2010 MONITORING REPORT" for Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

A clufings For:

J. Micah Bennett
Hydrogeologist
KLM Environmental, LLC

Reviewed By:

Mark L. Keller, PG
President
KLM Environmental, LLC

1/15/10
Date

MARK L. KELLER
REGISTERED
No. 2311
1/15/10
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina (Appendix A, Figure 1). Currently there is one 12,000 gasoline UST located at the site in the tank basin. There are three dispensers associated with the tank located at the front of the store beneath the canopy. A release was reported on December 30, 1991 and assessment activities have been going on since that date. This report serves to present results of the sampling conducted at Short Stop at the request of the SCDHEC Project Manager.

2.0 SITE DESCRIPTION

The Short Stop site has twenty-two shallow wells located at the site along with two telescopic deep wells. On January 5th, 2010, KLM mobilized to the site and sampled all monitoring wells associated with the site. Figure 2 serves as a site map showing well locations. The piezometric data is provided in the following table and in Appendix A, Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	1/5/10	103.62	20-40	--	28.26	75.36
MW-2R	1/5/10	105.11	20-40	--	29.72	75.39
MW-3R	1/5/10	105.67	20-40	29.75	29.86	FP
MW-4R	1/5/10	104.44	20-40	--	28.99	75.45
MW-5	1/5/10	105.62	20-40	--	29.87	75.75
MW-6	1/5/10	103.87	20-40	--	28.23	75.64
MW-7	1/5/10	102.55	20-40	--	27.27	75.28
MW-8	1/5/10	101.82	20-40	--	26.64	75.18
MW-9	1/5/10	102.03	20-40	--	26.93	75.10
MW-10	1/5/10	102.30	20-40	--	27.17	75.13
MW-11	1/5/10	100.45	20-40	--	25.38	75.07
MW-12	1/5/10	102.40	20-40	--	27.25	75.15
MW-13	1/5/10	101.91	20-40	--	27.18	74.73
MW-14	1/5/10	101.77	20-40	--	27.71	74.06
MW-15	1/5/10	94.60	11-31	--	21.08	73.52
MW-16	1/5/10	101.26	19-39	--	27.53	73.73
MW-17	1/5/10	101.69	20-40	--	27.75	73.94
MW-18	1/5/10	98.19	20-40	--	24.33	73.86
MW-19	1/5/10	106.86	20-40	--	31.25	75.61
MW-20	1/5/10	104.83	20-40	--	29.37	75.46
MW-21	1/5/10	102.66	20-40	--	27.32	75.34
MW-22	1/5/10	101.23	20-40	--	26.01	75.22
DW-1*	1/5/10	102.23	58-63	--	28.19	74.04
DW-2*	1/5/10	94.62	55-60	--	21.14	73.48

*** Telescoping wells not used to construct the shallow piezometric map.**

Depths to fluid measurements were collected relative to the top of casing for each well using a hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch. Groundwater elevations were then determined by subtracting depth to

fluid measurements from the top of casing elevations and a piezometric contour map of the uppermost aquifer surface was developed (Appendix A, Figure 3).

3.0 GROUNDWATER QUALITY

KLM personnel performed the groundwater-sampling event on January 5th, 2010. All monitoring wells were located and sampled. Results for all wells sampled are as follows:

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS	NS
MW-1R	4/8/09	**8500**	**6440**	**871**	4620	**3170**	**<500**	**80.7**	**35.2**	NS
	1/5/10	**8460**	**9170**	**1400**	8790	**7420**	**635**	4.7	**41.7**	**322**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02	NS
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS	NS
	4/8/09	**504**	97.8	41.9	361	16.2	<25.0	<5.0	<0.019	NS
	1/5/10	**777**	199	82.8	670	25.1	<25.0	<5.0	<0.020	<25.0
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02	NS
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS	NS
	4/8/09	**4380**	**18000**	**1420**	7470	**28400**	**<1000**	<5.0	<0.019	NS
	1/5/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02	NS
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS	NS
	4/8/09	**13.4**	<5.0	<5.0	3.6	6.4	<5.0	5.7	<0.019	NS
	1/5/10	**13.5**	<5.0	<5.0	6.1	5.8	<5.0	5.0	<0.019	<5.0
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02	NS
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS	NS
	4/8/09	**931**	709	183	798	**53.2**	**<50.0**	13.5	<0.020	NS
	1/5/10	**1050**	841	242	1070	**49.6**	<25.0	<5.0	<0.019	<25.0
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	1.8	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02	NS
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS	NS
	4/8/09	**8.1**	<5.0	<5.0	9.9	11.6	<5.0	<5.0	<0.020	NS
	1/5/10	4.1	<5.0	<5.0	2.8	3.7	<5.0	6.3	<0.020	<5.0
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**	NS
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS	NS
	4/8/09	**1190**	<50.0	15.1	447	**638**	**<50.0**	12.5	**0.34**	NS
	1/5/10	**383**	8.8	16.0	204	**331**	<10.0	5.1	**0.10**	3.2
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**59.1**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**28.2**	<0.020	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	5	1000	700	10000	40	25	15	0.05	5
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.1	<0.019	<5.0
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02	NS
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.019	<5.0
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.9	<0.020	<5.0
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**	NS
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS	NS
	4/8/09	**152**	<5.0	<5.0	18.6	**163**	<5.0	<5.0	0.38	NS
	1/5/10	**775**	<5.0	<5.0	75.4	**463**	13.0	**16.1**	**0.94**	**8.9**
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**21.4**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**17.8**	<0.020	<5.0
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	2.0	<5.0	<5.0	<0.020	<5.0
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.2	<0.020	<5.0
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.020	<5.0
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.7	<0.019	NS
	1/5/10	**5.8**	93.4	19.8	94.1	2.5	6.1	<5.0	<0.020	<5.0
MW-20	4/8/09	**3940**	**16900**	690	5260	**5060**	**127**	5.5	**3.1**	NS
	1/5/10	**8500**	**54200**	**1530**	**14400**	**12000**	**408**	10.7	**29.1**	**188**
MW-21	4/8/09	**3620**	<250	90.0	3390	**1360**	**<250**	11.8	**0.75**	NS
	1/5/10	**5000**	54.4	298	9080	**3150**	**122**	<5.0	**0.64**	**85.3**
MW-22	4/8/09	**414**	4.2	2.3	169	**45.2**	<5.0	**15.9**	<0.020	NS
	1/5/10	**6.8**	<5.0	<5.0	<10.0	<5.0	<5.0	**21.7**	0.039	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02	NS
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS	NS
	4/8/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0

Note: All results in µg/l. Numbers in bold exceed RBSL.

TABLE 3
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	Ethanol	(ETBE)	(DIPE)	(ETBA)	(TBA)	(TAME)	(TAA)	(TBF)
RBSL	--	**10000**	**47**	**150**	--	**1400**	**128**	**240**	--
MW-1R	1/5/10	<10000	**<500**	**<250**	<5000	**9370**	**<500**	**43400**	<2500
MW-2R	1/5/10	<1000	<50.0	<25.0	<500	<500	<50.0	<500	<250
MW-3R	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-4R	1/5/10	<1000	<50.0	<25.0	<500	<500	<50.0	<500	<250
MW-5	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-6	1/5/10	<200	<10.0	<5.0	<100	91.8	<10.0	<100	<50.0
MW-7	1/5/10	<400	<20.0	6.4	<200	155	<20.0	**1030**	<100
MW-8	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-9	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-10	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-11	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-12	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-13	1/5/10	<200	<10.0	8.8	<100	321	<10.0	**1820**	<50.0
MW-14	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	**265**	<50.0
MW-15	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-16	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-17	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-18	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-19	1/5/10	**<20000**	**<1000**	**<500**	<10000	**7230**	**<1000**	**20800**	<5000
MW-20	1/5/10	<4000	**<200**	54.4	<2000	**2790**	**<200**	**29200**	<1000
MW-21	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	**345**	<50.0
MW-22	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
DW-1	1/5/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
DW-2	1/5/10	<10000	**<500**	**<250**	<5000	**9370**	**<500**	**43400**	<2500

A minimum of three well volumes were purged from each monitoring well not bracketing the water table prior to sample collection using an electric purge pump. Immediately after well purging was completed, groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured and recorded for each sample during well purging or at the time of collection. Following collection in the field, the groundwater samples were submitted to the analytical laboratory and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, 1, 2 DCA, Lead, EDB, and 8 oxygenates. A copy of the laboratory data and the chain-of-custody for the well sampling event is provided in Appendix B. A map with concentration levels for each well is provided as Figure 4 in Appendix A.

4.0 CONCLUSIONS

Results from the contamination delineation indicate contaminants exist at the Short Stop in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Delineation of the contaminant plume appears to be complete at this time. Benzene, Naphthalene, Lead, MTBE, and EDB are present in a number of monitoring wells at the site above RBSLs and are the prevalent chemicals of concern. Free phase petroleum product was detected in monitoring well MW-3R during this sampling event at 0.11 feet.

Based on the results of the latest sampling event, KLM recommends a series of aggressive fluid recovery events to attempt to lower contaminant levels across the site and remove the free phase product detected in MW-3R. Following the AFVR events, a comprehensive sampling event should be conducted in order to track the effectiveness of the AFVR events. Periodic sampling of the site should continue in order to ensure the contaminant plume remains defined.

5.0 REFERENCES

KLM Environmental, LLC, *Assessment Report*, April, 2009.

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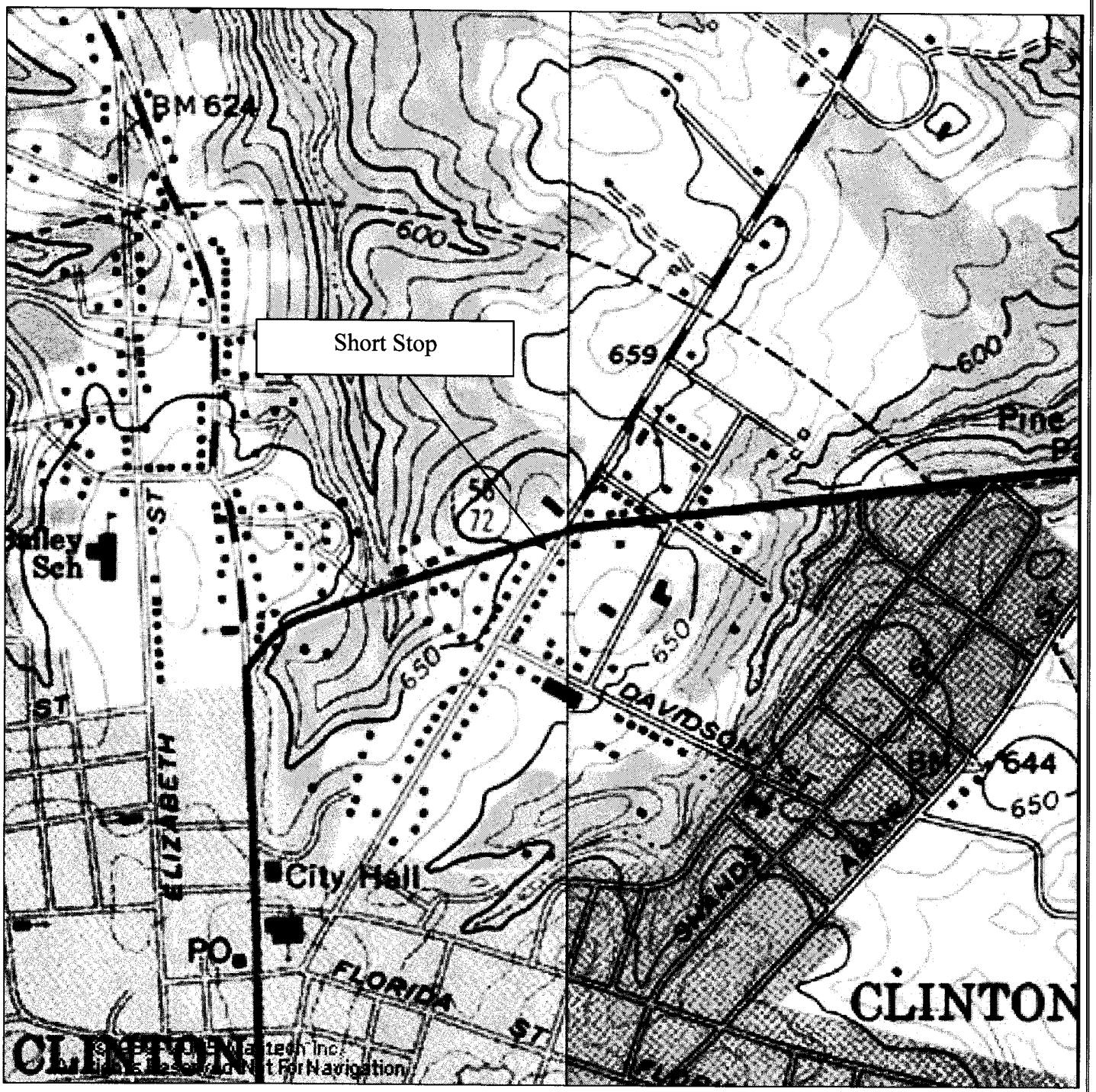
APPENDIX A

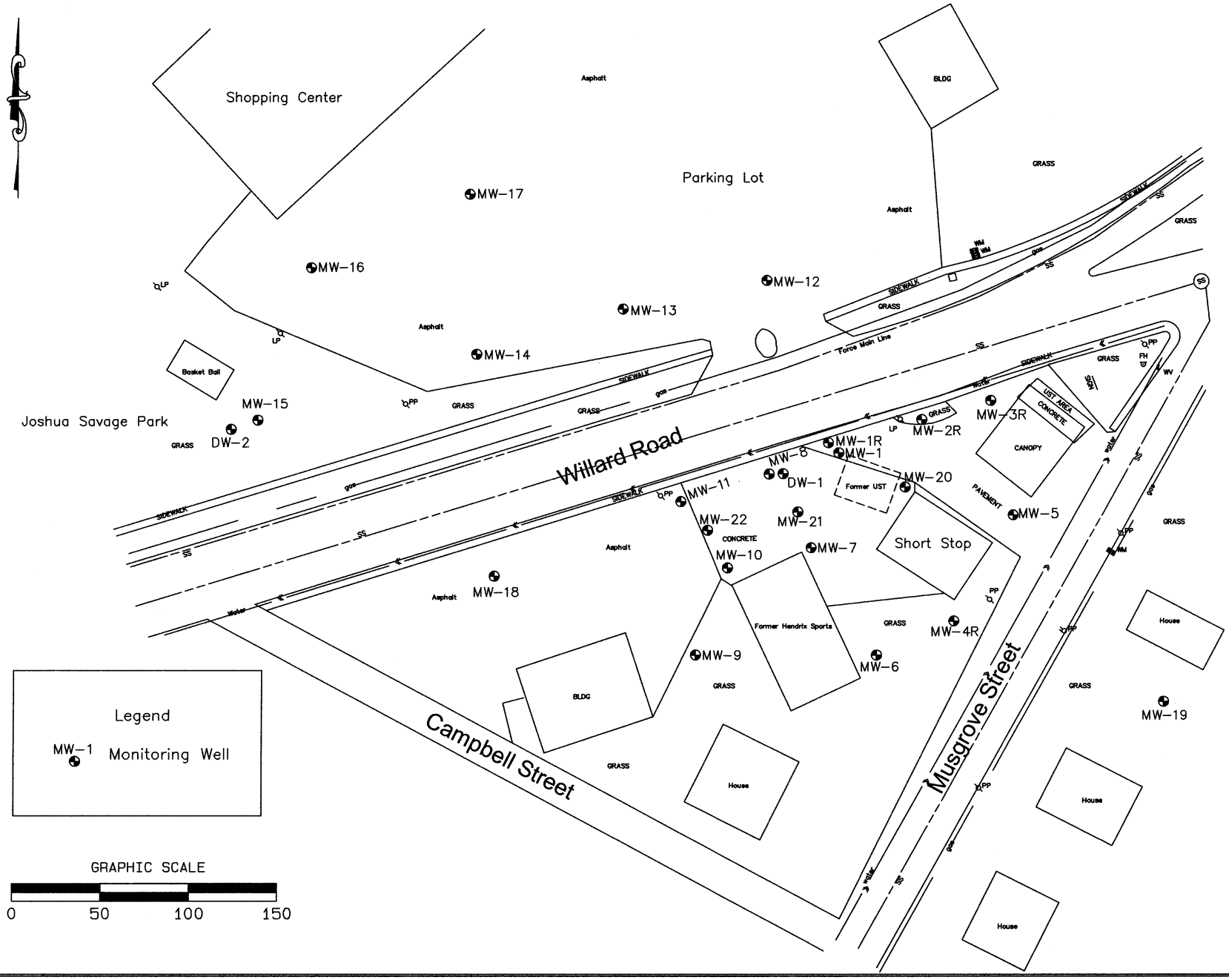
Figures



KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143



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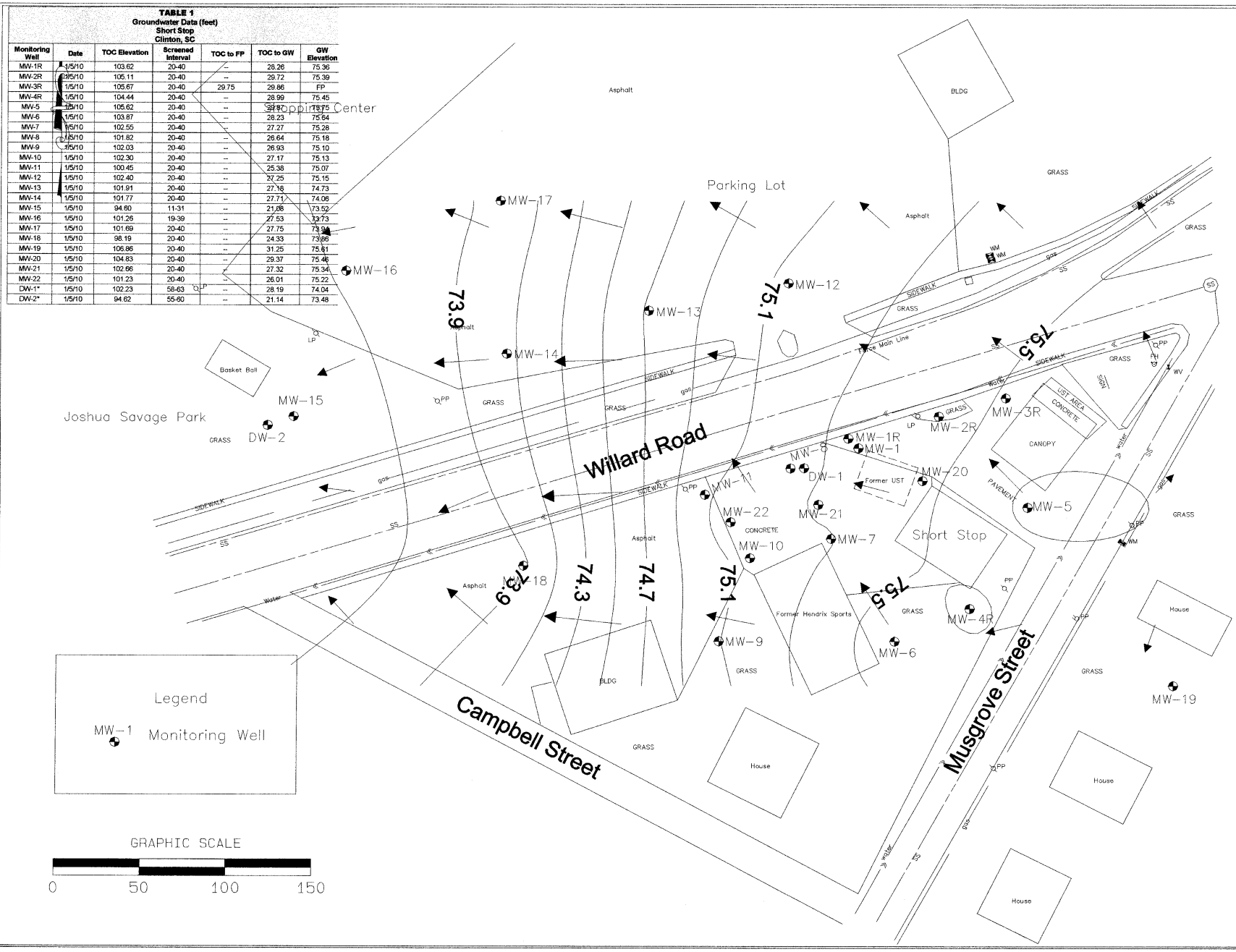
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	1/5/10	103.62	20-40	--	28.26	75.36
MW-2R	1/5/10	105.11	20-40	--	29.72	75.39
MW-3R	1/5/10	105.67	20-40	29.75	29.86	FP
MW-4R	1/5/10	104.44	20-40	--	28.99	75.45
MW-5	1/5/10	105.62	20-40	--	29.87	75.75
MW-6	1/5/10	103.87	20-40	--	28.23	75.64
MW-7	1/5/10	102.55	20-40	--	27.27	75.28
MW-8	1/5/10	101.82	20-40	--	26.64	75.18
MW-9	1/5/10	102.03	20-40	--	26.93	75.10
MW-10	1/5/10	102.30	20-40	--	27.17	75.13
MW-11	1/5/10	100.45	20-40	--	25.38	75.07
MW-12	1/5/10	102.40	20-40	--	27.25	75.15
MW-13	1/5/10	101.91	20-40	--	27.18	74.73
MW-14	1/5/10	101.77	20-40	--	27.71	74.06
MW-15	1/5/10	94.60	11-31	--	21.08	73.52
MW-16	1/5/10	101.26	19-39	--	27.53	73.73
MW-17	1/5/10	101.69	20-40	--	27.75	73.94
MW-18	1/5/10	98.19	20-40	--	24.33	73.86
MW-19	1/5/10	106.86	20-40	--	31.25	75.61
MW-20	1/5/10	104.83	20-40	--	29.37	75.46
MW-21	1/5/10	102.66	20-40	--	27.32	75.34
MW-22	1/5/10	101.23	20-40	--	26.01	75.22
DW-1*	1/5/10	102.23	58-63	--	28.19	74.04
DW-2*	1/5/10	94.62	55-80	--	21.14	73.48



KLM Environmental, LLC

Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

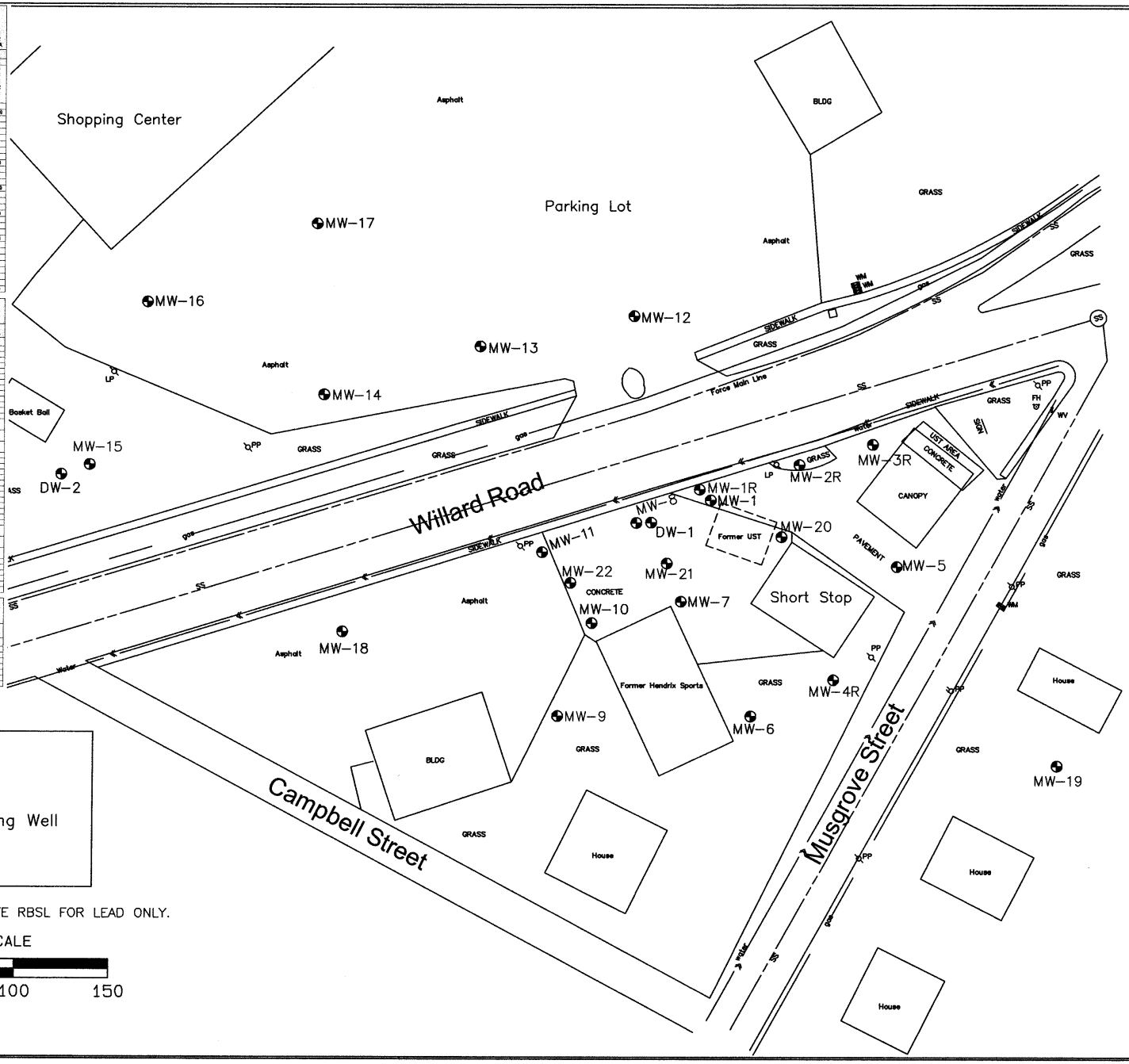
Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	5	1000	700	10000	40	25	15	0.05	5
MW-1	10/31/07	FP	FP	FP	FP	FP	FP	FP	FP	NS
	7/21/08	FP	FP	FP	FP	FP	FP	FP	FP	NS
MW-1R	12/8/08	12800	39400	6180	36000	11700	943	NS	NS	NS
	4/9/09	8500	6440	971	4620	3170	<200	80.7	35.2	NS
	1/5/10	8460	9170	1400	8790	7420	535	4.7	41.7	332
MW-3R	7/21/08	90.2	139	18.8	94.3	2.8	<5.0	8.2	<0.02	NS
	12/8/08	503	473	14.6	249	10.3	<5.0	<5.0	NS	NS
	4/9/09	504	973	41.3	361	18.2	<25.0	<5.0	<0.019	NS
	1/5/10	777	199	102	670	25.1	<25.0	<5.0	<0.029	<25.0
MW-3R	7/21/08	577	3850	244	881	662	<50.0	<5.0	<0.02	NS
	12/8/08	2530	8630	902	5360	11400	705	<5.0	NS	NS
	4/9/09	4380	19000	1400	7410	20400	<1000	<5.0	<0.015	NS
	1/5/10	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-4R	7/21/08	23.5	2.7	<5.0	22.8	51.7	<5.0	5.2	<0.02	NS
	12/8/08	20.6	<5.0	<5.0	17.0	17.7	<5.0	8.8	NS	NS
	4/9/09	13.4	<5.0	<5.0	5.0	6.4	<5.0	5.7	<0.015	NS
	1/5/10	13.5	<5.0	<5.0	6.1	5.2	<5.0	5.0	<0.015	<5.0
MW-5	7/21/08	474	53.4	18.7	182	39.2	<25.0	8.9	<0.02	NS
	12/8/08	908	492	221	833	75.3	18.3	17.5	NS	NS
	4/9/09	931	788	182	798	53.2	<50.0	13.5	<0.035	NS
	1/5/10	1050	341	242	1070	48.6	<25.0	<5.0	<0.019	<25.0
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	6.2	NS	NS
	4/9/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	44.0	NS	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019	NS
MW-7	7/21/08	8.1	<5.0	<5.0	9.8	11.8	<5.0	5.1	<0.020	NS
	12/8/08	8.1	<5.0	<5.0	2.8	3.7	<5.0	8.3	<0.020	<5.0
	7/21/08	2950	<50.0	15.3	945	364	106	<5.0	1.1	NS
MW-8	12/8/08	1800	54.2	20.8	874	864	<100	<5.0	NS	NS
	4/9/09	1190	<50.0	15.1	447	636	<50.0	12.5	0.34	NS
	1/5/10	583	8.8	16.0	264	331	<10.0	5.1	0.10	3.2
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	225	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	229	NS	NS
	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	58.1	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	39.2	<0.029	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	5	1000	700	10000	40	25	15	0.05	5
MW-10	7/21/08	6.4	<5.0	<5.0	<15.0	<5.0	<5.0	66.5	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	12.3	NS	NS
MW-11	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.1	<0.019	<5.0
	7/21/08	169	<5.0	<5.0	39.6	26.0	<5.0	4.7	<0.02	NS
	12/8/08	5.1	<5.0	<5.0	10.0	<5.0	<5.0	6.2	NS	NS
MW-12	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.7	<0.019	<5.0
	7/21/08	5.8	95.4	11.8	81.1	<5.0	<5.0	5.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	15.0	NS	NS
MW-13	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.9	<0.020	<5.0
	7/21/08	2.4	22.9	3	12.9	<5.0	<5.0	93.3	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	14.0	NS	NS
MW-14	4/9/09	162	<5.0	<5.0	19.6	163	<5.0	<5.0	0.38	NS
	1/5/10	775	<5.0	<5.0	76.4	482	<5.0	56.1	0.54	8.8
	7/21/08	1.5	7.2	<5.0	<15.0	<5.0	<5.0	165	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	76.1	NS	NS
MW-15	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	21.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	17.6	<0.020	<5.0
	7/21/08	1.3	9.4	1.2	<15.0	9.5	<5.0	50.8	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	12.0	NS	NS
MW-16	4/9/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<20.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020	<5.0
	7/21/08	<2	15.7	2.1	5.5	<5.0	<5.0	96.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.6	NS	NS
MW-17	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	9.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.7	<0.020	<5.0
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	27.8	<0.019	NS
MW-18	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.039	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.020	<5.0
	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	5.5	<0.02	NS
MW-19	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.019	NS
	1/5/10	5.8	61.4	19.8	54.1	2.5	6.1	<5.0	<0.020	<5.0
MW-20	4/9/09	3940	18500	530	2290	6060	127	5.5	3.1	NS
	1/5/10	6900	54200	1630	14400	13000	402	10.7	28.1	186
MW-21	4/9/09	2620	5290	903	3330	1360	<200	11.8	0.75	NS
	1/5/10	6060	54.4	295	2050	3160	122	<5.0	0.64	96.9
MW-22	4/9/09	414	4.2	2.3	169	49.2	<5.0	19.9	<0.020	NS
	1/5/10	8.8	<5.0	<5.0	<10.0	<5.0	<5.0	21.7	0.039	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	5	1000	700	10000	40	25	15	0.05	5
DW-1	7/21/08	322	2.4	1.1	54.9	92.7	<5.0	6.6	<0.02	NS
	12/8/08	10.5	<5.0	<5.0	6.0	14.0	<5.0	4.7	NS	NS
	4/9/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02	NS
	4/9/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0



Legend

MW-1 Monitoring Well

WELLS IN BLUE ARE ABOVE RBSL FOR LEAD ONLY.

GRAPHIC SCALE

0 50 100 150

KLM Environmental, LLC

Phase I: Phase II: Underground Storage Tanks: Soil & Water Sampling: Well Installation

FIGURE 4
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

APPENDIX B

Laboratory Data

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(704)875-9092

January 14, 2010

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9260789

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9260789

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213

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 #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
Florida/NELAP Certification #: E87648

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9260789

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9260789001	**MW-1R**	Water	01/05/10 14:40	01/07/10 09:30
9260789002	**MW-2R**	Water	01/05/10 15:00	01/07/10 09:30
9260789003	**MW-4R**	Water	01/05/10 15:40	01/07/10 09:30
9260789004	**MW-5**	Water	01/05/10 15:20	01/07/10 09:30
9260789005	**MW-6**	Water	01/05/10 15:50	01/07/10 09:30
9260789006	**MW-7**	Water	01/05/10 14:00	01/07/10 09:30
9260789007	**MW-8**	Water	01/05/10 14:30	01/07/10 09:30
9260789008	**MW-9**	Water	01/05/10 13:20	01/07/10 09:30
9260789009	**MW-10**	Water	01/05/10 13:30	01/07/10 09:30
9260789010	**MW-11**	Water	01/05/10 13:50	01/07/10 09:30
9260789011	**MW-12**	Water	01/05/10 12:00	01/07/10 09:30
9260789012	**MW-13**	Water	01/05/10 12:10	01/07/10 09:30
9260789013	**MW-14**	Water	01/05/10 12:20	01/07/10 09:30
9260789014	**MW-15**	Water	01/05/10 12:50	01/07/10 09:30
9260789015	**MW-16**	Water	01/05/10 12:30	01/07/10 09:30
9260789016	**MW-17**	Water	01/05/10 12:40	01/07/10 09:30
9260789017	**MW-18**	Water	01/05/10 13:10	01/07/10 09:30
9260789018	**MW-19**	Water	01/05/10 15:30	01/07/10 09:30
9260789019	**MW-20**	Water	01/05/10 14:50	01/07/10 09:30
9260789020	**MW-21**	Water	01/05/10 14:10	01/07/10 09:30
9260789021	**MW-22**	Water	01/05/10 13:40	01/07/10 09:30
9260789022	**DW-1**	Water	01/05/10 14:20	01/07/10 09:30
9260789023	**DW-2**	Water	01/05/10 13:00	01/07/10 09:30

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9260789

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9260789001	**MW-1R**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789002	**MW-2R**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789003	**MW-4R**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789004	**MW-5**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789005	**MW-6**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789006	**MW-7**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789007	**MW-8**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789008	**MW-9**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789009	**MW-10**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789010	**MW-11**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789011	**MW-12**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789012	**MW-13**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789013	**MW-14**	EPA 8011	RES	2

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9260789

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789014	**MW-15**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789015	**MW-16**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789016	**MW-17**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789017	**MW-18**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789018	**MW-19**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789019	**MW-20**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789020	**MW-21**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789021	**MW-22**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789022	**DW-1**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21
9260789023	**DW-2**	EPA 8011	RES	2
		EPA 6010	EWS	1
		EPA 8260	MCK	21

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-1R **Lab ID: 9260789001** Collected: 01/05/10 14:40 Received: 01/07/10 09:30 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)	**41.7**	ug/L	0.97	0.97	50	01/08/10 15:37	01/12/10 20:36	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		50	01/08/10 15:37	01/12/10 20:36	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.7J**	ug/L	5.0	4.0	1	01/08/10 13:25	01/11/10 16:59	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**43400**	ug/L	5000	3100	50		01/13/10 10:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	225	50		01/13/10 10:11	994-05-8	
Benzene	**8460**	ug/L	1000	240	200		01/13/10 16:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		01/13/10 10:11	624-95-3	
tert-Butyl Alcohol	**9370**	ug/L	5000	1350	50		01/13/10 10:11	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		01/13/10 10:11	762-75-4	
1,2-Dichloroethane	**322**	ug/L	250	65.0	50		01/13/10 10:11	107-06-2	
Diisopropyl ether	ND	ug/L	250	135	50		01/13/10 10:11	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		01/13/10 10:11	64-17-5	
Ethylbenzene	**1400**	ug/L	250	55.0	50		01/13/10 10:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		01/13/10 10:11	637-92-3	
Methyl-tert-butyl ether	**7420**	ug/L	1000	400	200		01/13/10 16:17	1634-04-4	
Naphthalene	**635**	ug/L	250	145	50		01/13/10 10:11	91-20-3	
Toluene	**9170**	ug/L	1000	360	200		01/13/10 16:17	108-88-3	
Xylene (Total)	**8790**	ug/L	500	135	50		01/13/10 10:11	1330-20-7	
m&p-Xylene	**6770**	ug/L	500	135	50		01/13/10 10:11	1330-20-7	
o-Xylene	**2020**	ug/L	250	85.0	50		01/13/10 10:11	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		50		01/13/10 10:11	1868-53-7	
Toluene-d8 (S)	98	%	70-120		50		01/13/10 10:11	2037-26-5	
4-Bromofluorobenzene (S)	96	%	87-109		50		01/13/10 10:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		50		01/13/10 10:11	17060-07-0	

Sample: MW-2R **Lab ID: 9260789002** Collected: 01/05/10 15:00 Received: 01/07/10 09:30 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	01/08/10 15:45	01/09/10 10:24	106-93-4	
1-Chloro-2-bromopropane (S)	80	%	60-140		1	01/08/10 15:45	01/09/10 10:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:25	01/11/10 17:03	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	500	310	5		01/12/10 07:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	22.5	5		01/12/10 07:40	994-05-8	
Benzene	**777**	ug/L	25.0	6.0	5		01/12/10 07:40	71-43-2	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-2R **Lab ID: 9260789002** Collected: 01/05/10 15:00 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		01/12/10 07:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	135	5		01/12/10 07:40	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		01/12/10 07:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		01/12/10 07:40	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	13.5	5		01/12/10 07:40	108-20-3	
Ethanol	ND	ug/L	1000	850	5		01/12/10 07:40	64-17-5	
Ethylbenzene	**82.8**	ug/L	25.0	5.5	5		01/12/10 07:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		01/12/10 07:40	637-92-3	
Methyl-tert-butyl ether	**25.1**	ug/L	25.0	10.0	5		01/12/10 07:40	1634-04-4	
Naphthalene	ND	ug/L	25.0	14.5	5		01/12/10 07:40	91-20-3	
Toluene	**199**	ug/L	25.0	9.0	5		01/12/10 07:40	108-88-3	
Xylene (Total)	**670**	ug/L	50.0	13.5	5		01/12/10 07:40	1330-20-7	
m&p-Xylene	**605**	ug/L	50.0	13.5	5		01/12/10 07:40	1330-20-7	
o-Xylene	**64.3**	ug/L	25.0	8.5	5		01/12/10 07:40	95-47-6	
Dibromofluoromethane (S)	102	%	85-115		5		01/12/10 07:40	1868-53-7	
Toluene-d8 (S)	100	%	70-120		5		01/12/10 07:40	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		5		01/12/10 07:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		5		01/12/10 07:40	17060-07-0	

Sample: MW-4R **Lab ID: 9260789003** Collected: 01/05/10 15:40 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	01/08/10 15:45	01/09/10 11:24	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	01/08/10 15:45	01/09/10 11:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.0**	ug/L	5.0	4.0	1	01/08/10 13:25	01/11/10 17:07	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/12/10 06:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/12/10 06:02	994-05-8	
Benzene	**13.5**	ug/L	5.0	1.2	1		01/12/10 06:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/12/10 06:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/12/10 06:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/12/10 06:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/12/10 06:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/12/10 06:02	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/12/10 06:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/12/10 06:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/12/10 06:02	637-92-3	
Methyl-tert-butyl ether	**5.8**	ug/L	5.0	2.0	1		01/12/10 06:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/12/10 06:02	91-20-3	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-4R **Lab ID: 9260789003** Collected: 01/05/10 15:40 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		01/12/10 06:02	108-88-3	
Xylene (Total)	**6.1J**	ug/L	10.0	2.7	1		01/12/10 06:02	1330-20-7	
m&p-Xylene	**4.5J**	ug/L	10.0	2.7	1		01/12/10 06:02	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/12/10 06:02	95-47-6	
Dibromofluoromethane (S)	102	%	85-115		1		01/12/10 06:02	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		01/12/10 06:02	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		01/12/10 06:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		01/12/10 06:02	17060-07-0	

Sample: MW-5 **Lab ID: 9260789004** Collected: 01/05/10 15:20 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	01/08/10 15:45	01/09/10 12:04	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	01/08/10 15:45	01/09/10 12:04	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 17:52	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	500	310	5		01/12/10 08:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	22.5	5		01/12/10 08:07	994-05-8	
Benzene	**1050**	ug/L	250	60.0	50		01/12/10 14:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		01/12/10 08:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	135	5		01/12/10 08:07	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		01/12/10 08:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		01/12/10 08:07	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	13.5	5		01/12/10 08:07	108-20-3	
Ethanol	ND	ug/L	1000	850	5		01/12/10 08:07	64-17-5	
Ethylbenzene	**242**	ug/L	25.0	5.5	5		01/12/10 08:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		01/12/10 08:07	637-92-3	
Methyl-tert-butyl ether	**49.6**	ug/L	25.0	10.0	5		01/12/10 08:07	1634-04-4	
Naphthalene	ND	ug/L	25.0	14.5	5		01/12/10 08:07	91-20-3	
Toluene	**841**	ug/L	25.0	9.0	5		01/12/10 08:07	108-88-3	
Xylene (Total)	**1070**	ug/L	50.0	13.5	5		01/12/10 08:07	1330-20-7	
m&p-Xylene	**907**	ug/L	50.0	13.5	5		01/12/10 08:07	1330-20-7	
o-Xylene	**166**	ug/L	25.0	8.5	5		01/12/10 08:07	95-47-6	
Dibromofluoromethane (S)	102	%	85-115		5		01/12/10 08:07	1868-53-7	
Toluene-d8 (S)	100	%	70-120		5		01/12/10 08:07	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109		5		01/12/10 08:07	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		5		01/12/10 08:07	17060-07-0	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-6 **Lab ID: 9260789005** Collected: 01/05/10 15:50 Received: 01/07/10 09:30 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	01/08/10 15:45	01/09/10 12:24	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	01/08/10 15:45	01/09/10 12:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.1J**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:10	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/12/10 06:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/12/10 06:26	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/12/10 06:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/12/10 06:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/12/10 06:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/12/10 06:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/12/10 06:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/12/10 06:26	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/12/10 06:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/12/10 06:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/12/10 06:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/12/10 06:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/12/10 06:26	91-20-3	
Toluene	**1.8J**	ug/L	5.0	1.8	1		01/12/10 06:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/12/10 06:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/12/10 06:26	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/12/10 06:26	95-47-6	
Dibromofluoromethane (S)	102	%	85-115		1		01/12/10 06:26	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		01/12/10 06:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		01/12/10 06:26	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		01/12/10 06:26	17060-07-0	

Sample: MW-7 **Lab ID: 9260789006** Collected: 01/05/10 14:00 Received: 01/07/10 09:30 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	01/08/10 15:45	01/09/10 12:45	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	01/08/10 15:45	01/09/10 12:45	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.3**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:18	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/12/10 06:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/12/10 06:50	994-05-8	
Benzene	**4.1J**	ug/L	5.0	1.2	1		01/12/10 06:50	71-43-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-7 **Lab ID: 9260789006** Collected: 01/05/10 14:00 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/12/10 06:50	624-95-3	
tert-Butyl Alcohol	**91.8J**	ug/L	100	27.0	1		01/12/10 06:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/12/10 06:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/12/10 06:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/12/10 06:50	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/12/10 06:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/12/10 06:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/12/10 06:50	637-92-3	
Methyl-tert-butyl ether	**3.7J**	ug/L	5.0	2.0	1		01/12/10 06:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/12/10 06:50	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/12/10 06:50	108-88-3	
Xylene (Total)	**2.8J**	ug/L	10.0	2.7	1		01/12/10 06:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/12/10 06:50	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/12/10 06:50	95-47-6	
Dibromofluoromethane (S)	101	%	85-115		1		01/12/10 06:50	1868-53-7	
Toluene-d8 (S)	101	%	70-120		1		01/12/10 06:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		01/12/10 06:50	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		01/12/10 06:50	17060-07-0	

Sample: MW-8 **Lab ID: 9260789007** Collected: 01/05/10 14:30 Received: 01/07/10 09:30 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)	**0.10**	ug/L	0.020	0.020	1	01/08/10 15:46	01/09/10 13:05	106-93-4	
1-Chloro-2-bromopropane (S)	115	%	60-140		1	01/08/10 15:46	01/09/10 13:05	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.1**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:22	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1030**	ug/L	200	124	2		01/12/10 13:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	9.0	2		01/12/10 13:15	994-05-8	
Benzene	**383**	ug/L	50.0	12.0	10		01/12/10 08:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	96.0	2		01/12/10 13:15	624-95-3	
tert-Butyl Alcohol	**155J**	ug/L	200	54.0	2		01/12/10 13:15	75-65-0	
tert-Butyl Formate	ND	ug/L	100	18.0	2		01/12/10 13:15	762-75-4	
1,2-Dichloroethane	**3.2J**	ug/L	10.0	2.6	2		01/12/10 13:15	107-06-2	
Diisopropyl ether	**6.4J**	ug/L	10.0	5.4	2		01/12/10 13:15	108-20-3	
Ethanol	ND	ug/L	400	340	2		01/12/10 13:15	64-17-5	
Ethylbenzene	**16.0**	ug/L	10.0	2.2	2		01/12/10 13:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	9.2	2		01/12/10 13:15	637-92-3	
Methyl-tert-butyl ether	**331**	ug/L	10.0	4.0	2		01/12/10 13:15	1634-04-4	
Naphthalene	ND	ug/L	10.0	5.8	2		01/12/10 13:15	91-20-3	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-8 **Lab ID: 9260789007** Collected: 01/05/10 14:30 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**8.8J**	ug/L	10.0	3.6	2		01/12/10 13:15	108-88-3	
Xylene (Total)	**204**	ug/L	20.0	5.4	2		01/12/10 13:15	1330-20-7	
m&p-Xylene	**162**	ug/L	20.0	5.4	2		01/12/10 13:15	1330-20-7	
o-Xylene	**41.7**	ug/L	10.0	3.4	2		01/12/10 13:15	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		2		01/12/10 13:15	1868-53-7	
Toluene-d8 (S)	98	%	70-120		2		01/12/10 13:15	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		2		01/12/10 13:15	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		2		01/12/10 13:15	17060-07-0	

Sample: MW-9 **Lab ID: 9260789008** Collected: 01/05/10 13:20 Received: 01/07/10 09:30 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	01/08/10 15:46	01/09/10 13:24	106-93-4	
1-Chloro-2-bromopropane (S)	82	%	60-140		1	01/08/10 15:46	01/09/10 13:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**28.2**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:26	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/12/10 07:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/12/10 07:14	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/12/10 07:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/12/10 07:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/12/10 07:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/12/10 07:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/12/10 07:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/12/10 07:14	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/12/10 07:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/12/10 07:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/12/10 07:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/12/10 07:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/12/10 07:14	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/12/10 07:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/12/10 07:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/12/10 07:14	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/12/10 07:14	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		01/12/10 07:14	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		01/12/10 07:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		1		01/12/10 07:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		01/12/10 07:14	17060-07-0	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-10 **Lab ID: 9260789009** Collected: 01/05/10 13:30 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	01/08/10 15:46	01/09/10 13:44	106-93-4	
1-Chloro-2-bromopropane (S)	93	%	60-140		1	01/08/10 15:46	01/09/10 13:44	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**7.1**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:30	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 02:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 02:53	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 02:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 02:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 02:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 02:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 02:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 02:53	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 02:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 02:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 02:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 02:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 02:53	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 02:53	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 02:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 02:53	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 02:53	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		1		01/13/10 02:53	1868-53-7	
Toluene-d8 (S)	95	%	70-120		1		01/13/10 02:53	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		01/13/10 02:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		01/13/10 02:53	17060-07-0	

Sample: MW-11 **Lab ID: 9260789010** Collected: 01/05/10 13:50 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	01/08/10 15:46	01/09/10 14:04	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	01/08/10 15:46	01/09/10 14:04	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.2**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:35	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 03:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 03:12	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 03:12	71-43-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-11 **Lab ID: 9260789010** Collected: 01/05/10 13:50 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 03:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 03:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 03:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 03:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 03:12	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 03:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 03:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 03:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 03:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 03:12	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 03:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 03:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 03:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 03:12	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		01/13/10 03:12	1868-53-7	
Toluene-d8 (S)	93	%	70-120		1		01/13/10 03:12	2037-26-5	
4-Bromofluorobenzene (S)	92	%	87-109		1		01/13/10 03:12	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		01/13/10 03:12	17060-07-0	

Sample: MW-12 **Lab ID: 9260789011** Collected: 01/05/10 12:00 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	01/08/10 15:46	01/09/10 14:24	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	01/08/10 15:46	01/09/10 14:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:39	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 03:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 03:30	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 03:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 03:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 03:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 03:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 03:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 03:30	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 03:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 03:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 03:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 03:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 03:30	91-20-3	

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(828)254-7176

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-12 **Lab ID: 9260789011** Collected: 01/05/10 12:00 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 03:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 03:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 03:30	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 03:30	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		01/13/10 03:30	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		01/13/10 03:30	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		01/13/10 03:30	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		01/13/10 03:30	17060-07-0	

Sample: MW-13 **Lab ID: 9260789012** Collected: 01/05/10 12:10 Received: 01/07/10 09:30 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	01/08/10 15:47	01/09/10 14:44	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	01/08/10 15:47	01/09/10 14:44	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**13.9**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:43	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 03:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 03:49	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 03:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 03:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 03:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 03:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 03:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 03:49	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 03:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 03:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 03:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 03:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 03:49	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 03:49	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 03:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 03:49	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 03:49	95-47-6	
Dibromofluoromethane (S)	98	%	85-115		1		01/13/10 03:49	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		01/13/10 03:49	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		1		01/13/10 03:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		01/13/10 03:49	17060-07-0	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-14 **Lab ID: 9260789013** Collected: 01/05/10 12:20 Received: 01/07/10 09:30 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)	**0.94**	ug/L	0.039	0.039	2	01/08/10 15:49	01/12/10 20:56	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140		2	01/08/10 15:49	01/12/10 20:56	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**16.1**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 18:47	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1820**	ug/L	100	62.0	1		01/13/10 04:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 04:07	994-05-8	
Benzene	**775**	ug/L	25.0	6.0	5		01/13/10 15:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 04:07	624-95-3	
tert-Butyl Alcohol	**321**	ug/L	100	27.0	1		01/13/10 04:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 04:07	762-75-4	
1,2-Dichloroethane	**8.9**	ug/L	5.0	1.3	1		01/13/10 04:07	107-06-2	
Diisopropyl ether	**8.8**	ug/L	5.0	2.7	1		01/13/10 04:07	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 04:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 04:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 04:07	637-92-3	
Methyl-tert-butyl ether	**463**	ug/L	25.0	10.0	5		01/13/10 15:19	1634-04-4	
Naphthalene	**13.0**	ug/L	5.0	2.9	1		01/13/10 04:07	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 04:07	108-88-3	
Xylene (Total)	**75.4**	ug/L	10.0	2.7	1		01/13/10 04:07	1330-20-7	
m&p-Xylene	**60.7**	ug/L	10.0	2.7	1		01/13/10 04:07	1330-20-7	
o-Xylene	**14.7**	ug/L	5.0	1.7	1		01/13/10 04:07	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		01/13/10 04:07	1868-53-7	
Toluene-d8 (S)	96	%	70-120		1		01/13/10 04:07	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109		1		01/13/10 04:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		01/13/10 04:07	17060-07-0	

Sample: MW-15 **Lab ID: 9260789014** Collected: 01/05/10 12:50 Received: 01/07/10 09:30 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	01/08/10 15:50	01/09/10 15:23	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	01/08/10 15:50	01/09/10 15:23	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**17.8**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:02	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**265**	ug/L	100	62.0	1		01/13/10 04:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 04:26	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 04:26	71-43-2	

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-15 **Lab ID: 9260789014** Collected: 01/05/10 12:50 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 04:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 04:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 04:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 04:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 04:26	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 04:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 04:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 04:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 04:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 04:26	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 04:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 04:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 04:26	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 04:26	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		1		01/13/10 04:26	1868-53-7	
Toluene-d8 (S)	91	%	70-120		1		01/13/10 04:26	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109		1		01/13/10 04:26	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		01/13/10 04:26	17060-07-0	

Sample: MW-16 **Lab ID: 9260789015** Collected: 01/05/10 12:30 Received: 01/07/10 09:30 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	01/08/10 15:50	01/09/10 15:43	106-93-4	
1-Chloro-2-bromopropane (S)	112	%	60-140		1	01/08/10 15:50	01/09/10 15:43	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:06	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 04:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 04:44	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 04:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 04:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 04:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 04:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 04:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 04:44	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 04:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 04:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 04:44	637-92-3	
Methyl-tert-butyl ether	**2.0J**	ug/L	5.0	2.0	1		01/13/10 04:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 04:44	91-20-3	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-16 **Lab ID: 9260789015** Collected: 01/05/10 12:30 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 04:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 04:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 04:44	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 04:44	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		01/13/10 04:44	1868-53-7	
Toluene-d8 (S)	93	%	70-120		1		01/13/10 04:44	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		01/13/10 04:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		01/13/10 04:44	17060-07-0	

Sample: MW-17 **Lab ID: 9260789016** Collected: 01/05/10 12:40 Received: 01/07/10 09:30 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	01/08/10 15:50	01/09/10 16:02	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	01/08/10 15:50	01/09/10 16:02	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**7.2**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:11	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 05:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 05:03	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 05:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 05:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 05:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 05:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 05:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 05:03	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 05:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 05:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 05:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 05:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 05:03	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 05:03	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 05:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 05:03	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 05:03	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		01/13/10 05:03	1868-53-7	
Toluene-d8 (S)	92	%	70-120		1		01/13/10 05:03	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		01/13/10 05:03	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		01/13/10 05:03	17060-07-0	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-18 **Lab ID: 9260789017** Collected: 01/05/10 13:10 Received: 01/07/10 09:30 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	01/08/10 15:50	01/09/10 16:22	106-93-4	
1-Chloro-2-bromopropane (S)	83	%	60-140		1	01/08/10 15:50	01/09/10 16:22	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.7**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:15	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 05:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 05:21	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 05:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 05:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 05:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 05:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 05:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 05:21	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 05:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 05:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 05:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 05:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 05:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 05:21	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 05:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 05:21	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 05:21	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		1		01/13/10 05:21	1868-53-7	
Toluene-d8 (S)	96	%	70-120		1		01/13/10 05:21	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		01/13/10 05:21	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		01/13/10 05:21	17060-07-0	

Sample: MW-19 **Lab ID: 9260789018** Collected: 01/05/10 15:30 Received: 01/07/10 09:30 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	01/08/10 15:50	01/09/10 16:41	106-93-4	
1-Chloro-2-bromopropane (S)	73	%	60-140		1	01/08/10 15:50	01/09/10 16:41	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:19	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 05:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 05:40	994-05-8	
Benzene	**5.8**	ug/L	5.0	1.2	1		01/13/10 05:40	71-43-2	

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-19 **Lab ID: 9260789018** Collected: 01/05/10 15:30 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 05:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 05:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 05:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 05:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 05:40	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 05:40	64-17-5	
Ethylbenzene	**19.8**	ug/L	5.0	1.1	1		01/13/10 05:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 05:40	637-92-3	
Methyl-tert-butyl ether	**2.5J**	ug/L	5.0	2.0	1		01/13/10 05:40	1634-04-4	
Naphthalene	**6.1**	ug/L	5.0	2.9	1		01/13/10 05:40	91-20-3	
Toluene	**93.4**	ug/L	5.0	1.8	1		01/13/10 05:40	108-88-3	
Xylene (Total)	**94.1**	ug/L	10.0	2.7	1		01/13/10 05:40	1330-20-7	
m&p-Xylene	**65.0**	ug/L	10.0	2.7	1		01/13/10 05:40	1330-20-7	
o-Xylene	**29.0**	ug/L	5.0	1.7	1		01/13/10 05:40	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		1		01/13/10 05:40	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		01/13/10 05:40	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109		1		01/13/10 05:40	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		01/13/10 05:40	17060-07-0	

Sample: MW-20 **Lab ID: 9260789019** Collected: 01/05/10 14:50 Received: 01/07/10 09:30 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)	**29.1**	ug/L	0.99	0.99	50	01/08/10 15:50	01/12/10 21:15	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		50	01/08/10 15:50	01/12/10 21:15	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**10.7**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:23	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**20800**	ug/L	10000	6200	100		01/13/10 07:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	450	100		01/13/10 07:55	994-05-8	
Benzene	**8500**	ug/L	500	120	100		01/13/10 07:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	4800	100		01/13/10 07:55	624-95-3	
tert-Butyl Alcohol	**7230J**	ug/L	10000	2700	100		01/13/10 07:55	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	900	100		01/13/10 07:55	762-75-4	
1,2-Dichloroethane	**188J**	ug/L	500	130	100		01/13/10 07:55	107-06-2	
Diisopropyl ether	ND	ug/L	500	270	100		01/13/10 07:55	108-20-3	
Ethanol	ND	ug/L	20000	17000	100		01/13/10 07:55	64-17-5	
Ethylbenzene	**1530**	ug/L	500	110	100		01/13/10 07:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	460	100		01/13/10 07:55	637-92-3	
Methyl-tert-butyl ether	**12000**	ug/L	500	200	100		01/13/10 07:55	1634-04-4	
Naphthalene	**408J**	ug/L	500	290	100		01/13/10 07:55	91-20-3	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-20 **Lab ID: 9260789019** Collected: 01/05/10 14:50 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**54200**	ug/L	2500	900	500		01/13/10 15:37	108-88-3	
Xylene (Total)	**14400**	ug/L	1000	270	100		01/13/10 07:55	1330-20-7	
m&p-Xylene	**9740**	ug/L	1000	270	100		01/13/10 07:55	1330-20-7	
o-Xylene	**4620**	ug/L	500	170	100		01/13/10 07:55	95-47-6	
Dibromofluoromethane (S)	102	%	85-115		100		01/13/10 07:55	1868-53-7	
Toluene-d8 (S)	102	%	70-120		100		01/13/10 07:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109		100		01/13/10 07:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		100		01/13/10 07:55	17060-07-0	

Sample: MW-21 **Lab ID: 9260789020** Collected: 01/05/10 14:10 Received: 01/07/10 09:30 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)	**0.64**	ug/L	0.020	0.020	1	01/08/10 15:50	01/09/10 17:21	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	01/08/10 15:50	01/09/10 17:21	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:27	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**29200**	ug/L	2000	1240	20		01/13/10 09:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	90.0	20		01/13/10 09:29	994-05-8	
Benzene	**5000**	ug/L	500	120	100		01/13/10 15:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	960	20		01/13/10 09:29	624-95-3	
tert-Butyl Alcohol	**2790**	ug/L	2000	540	20		01/13/10 09:29	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	180	20		01/13/10 09:29	762-75-4	
1,2-Dichloroethane	**85.3J**	ug/L	100	26.0	20		01/13/10 09:29	107-06-2	
Diisopropyl ether	**54.4J**	ug/L	100	54.0	20		01/13/10 09:29	108-20-3	
Ethanol	ND	ug/L	4000	3400	20		01/13/10 09:29	64-17-5	
Ethylbenzene	**298**	ug/L	100	22.0	20		01/13/10 09:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	92.0	20		01/13/10 09:29	637-92-3	
Methyl-tert-butyl ether	**3150**	ug/L	500	200	100		01/13/10 15:59	1634-04-4	
Naphthalene	**122**	ug/L	100	58.0	20		01/13/10 09:29	91-20-3	
Toluene	**54.4J**	ug/L	100	36.0	20		01/13/10 09:29	108-88-3	
Xylene (Total)	**9080**	ug/L	200	54.0	20		01/13/10 09:29	1330-20-7	
m&p-Xylene	**7670**	ug/L	200	54.0	20		01/13/10 09:29	1330-20-7	
o-Xylene	**1410**	ug/L	100	34.0	20		01/13/10 09:29	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		20		01/13/10 09:29	1868-53-7	
Toluene-d8 (S)	98	%	70-120		20		01/13/10 09:29	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		20		01/13/10 09:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		20		01/13/10 09:29	17060-07-0	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: MW-22 **Lab ID: 9260789021** Collected: 01/05/10 13:40 Received: 01/07/10 09:30 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)	**0.039**	ug/L	0.020	0.020	1	01/08/10 15:51	01/09/10 17:41	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	01/08/10 15:51	01/09/10 17:41	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**21.7**	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:31	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**345**	ug/L	100	62.0	1		01/13/10 13:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 13:54	994-05-8	
Benzene	**6.8**	ug/L	5.0	1.2	1		01/13/10 13:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 13:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 13:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 13:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 13:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 13:54	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 13:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 13:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 13:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 13:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 13:54	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 13:54	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 13:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 13:54	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 13:54	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		01/13/10 13:54	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		01/13/10 13:54	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		1		01/13/10 13:54	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		01/13/10 13:54	17060-07-0	

Sample: DW-1 **Lab ID: 9260789022** Collected: 01/05/10 14:20 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	01/08/10 15:40	01/09/10 02:38	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	01/08/10 15:40	01/09/10 02:38	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:35	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 05:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 05:58	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 05:58	71-43-2	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: DW-1 **Lab ID: 9260789022** Collected: 01/05/10 14:20 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 05:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 05:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 05:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 05:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 05:58	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 05:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 05:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 05:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 05:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 05:58	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 05:58	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 05:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 05:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 05:58	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		1		01/13/10 05:58	1868-53-7	
Toluene-d8 (S)	98	%	70-120		1		01/13/10 05:58	2037-26-5	
4-Bromofluorobenzene (S)	92	%	87-109		1		01/13/10 05:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		01/13/10 05:58	17060-07-0	

Sample: DW-2 **Lab ID: 9260789023** Collected: 01/05/10 13:00 Received: 01/07/10 09:30 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	01/08/10 15:41	01/09/10 03:36	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	01/08/10 15:41	01/09/10 03:36	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	01/08/10 13:27	01/11/10 19:40	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		01/13/10 06:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		01/13/10 06:16	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		01/13/10 06:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		01/13/10 06:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		01/13/10 06:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		01/13/10 06:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		01/13/10 06:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		01/13/10 06:16	108-20-3	
Ethanol	ND	ug/L	200	170	1		01/13/10 06:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		01/13/10 06:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		01/13/10 06:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		01/13/10 06:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		01/13/10 06:16	91-20-3	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9260789

Sample: DW-2 **Lab ID: 9260789023** Collected: 01/05/10 13:00 Received: 01/07/10 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		01/13/10 06:16	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		01/13/10 06:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		01/13/10 06:16	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		01/13/10 06:16	95-47-6	
Dibromofluoromethane (S)	98	%	85-115		1		01/13/10 06:16	1868-53-7	
Toluene-d8 (S)	97	%	70-120		1		01/13/10 06:16	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109		1		01/13/10 06:16	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		01/13/10 06:16	17060-07-0	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: OEXT/9004
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9260789001

METHOD BLANK: 388305 Matrix: Water
Associated Lab Samples: 9260789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	01/08/10 17:28	
1-Chloro-2-bromopropane (S)	%	93	60-140	01/08/10 17:28	

LABORATORY CONTROL SAMPLE & LCSD: 388306 388307

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	0.30	0.29	108	102	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				85	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 388308 388309

Parameter	Units	9260868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.31	110	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						104	103	60-140			

SAMPLE DUPLICATE: 388310

Parameter	Units	9260868003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	98	101	0		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: OEXT/9005 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9260789002, 9260789003, 9260789004, 9260789005, 9260789006, 9260789007, 9260789008, 9260789009, 9260789010, 9260789011, 9260789012, 9260789013, 9260789014, 9260789015, 9260789016, 9260789017, 9260789018, 9260789019, 9260789020, 9260789021

METHOD BLANK: 388311 Matrix: Water
Associated Lab Samples: 9260789002, 9260789003, 9260789004, 9260789005, 9260789006, 9260789007, 9260789008, 9260789009, 9260789010, 9260789011, 9260789012, 9260789013, 9260789014, 9260789015, 9260789016, 9260789017, 9260789018, 9260789019, 9260789020, 9260789021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.018	01/09/10 09:24	
1-Chloro-2-bromopropane (S)	%	89	60-140	01/09/10 09:24	

LABORATORY CONTROL SAMPLE & LCSD: 388312 388313

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	0.26	0.27	92	98	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				79	87	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 388314 388315

Parameter	Units	9260789002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.30	0.33	106	120	60-140	12	20	
1-Chloro-2-bromopropane (S)	%						95	96	60-140			

SAMPLE DUPLICATE: 388316

Parameter	Units	9260789003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	98	91	7		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: OEXT/9006 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9260789022, 9260789023

METHOD BLANK: 388317 Matrix: Water
Associated Lab Samples: 9260789022, 9260789023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	01/09/10 01:39	
1-Chloro-2-bromopropane (S)	%	94	60-140	01/09/10 01:39	

LABORATORY CONTROL SAMPLE & LCSD: 388318 388319

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.27	0.27	0.27	98	100	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				91	93	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 388320 388321

Parameter	Units	9260789022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.29	0.28	104	102	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						97	96	60-140			

SAMPLE DUPLICATE: 388322

Parameter	Units	9260825001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	91	94	2		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: MPRP/5648 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9260789001, 9260789002, 9260789003

METHOD BLANK: 388288 Matrix: Water
Associated Lab Samples: 9260789001, 9260789002, 9260789003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/11/10 15:10	

LABORATORY CONTROL SAMPLE: 388289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	461	92	80-120	

MATRIX SPIKE SAMPLE: 388290

Parameter	Units	9260788001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	448	90	75-125	

SAMPLE DUPLICATE: 388291

Parameter	Units	9260656020 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: MPRP/5649 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9260789004, 9260789005, 9260789006, 9260789007, 9260789008, 9260789009, 9260789010, 9260789011, 9260789012, 9260789013, 9260789014, 9260789015, 9260789016, 9260789017, 9260789018, 9260789019, 9260789020, 9260789021, 9260789022, 9260789023

METHOD BLANK: 388292 Matrix: Water
Associated Lab Samples: 9260789004, 9260789005, 9260789006, 9260789007, 9260789008, 9260789009, 9260789010, 9260789011, 9260789012, 9260789013, 9260789014, 9260789015, 9260789016, 9260789017, 9260789018, 9260789019, 9260789020, 9260789021, 9260789022, 9260789023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/11/10 17:45	

LABORATORY CONTROL SAMPLE: 388293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	461	92	80-120	

MATRIX SPIKE SAMPLE: 388294

Parameter	Units	9260789004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	444	89	75-125	

SAMPLE DUPLICATE: 388295

Parameter	Units	9260789005 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	4.1J	4.0J		20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: MSV/9620 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9260789002, 9260789003, 9260789004, 9260789005, 9260789006, 9260789007, 9260789008

METHOD BLANK: 389027 Matrix: Water
Associated Lab Samples: 9260789002, 9260789003, 9260789004, 9260789005, 9260789006, 9260789007, 9260789008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	01/12/10 00:27	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	01/12/10 00:27	
Benzene	ug/L	ND	5.0	01/12/10 00:27	
Diisopropyl ether	ug/L	ND	5.0	01/12/10 00:27	
Ethanol	ug/L	ND	200	01/12/10 00:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	01/12/10 00:27	
Ethylbenzene	ug/L	ND	5.0	01/12/10 00:27	
m&p-Xylene	ug/L	ND	10.0	01/12/10 00:27	
Methyl-tert-butyl ether	ug/L	ND	5.0	01/12/10 00:27	
Naphthalene	ug/L	ND	5.0	01/12/10 00:27	
o-Xylene	ug/L	ND	5.0	01/12/10 00:27	
tert-Amyl Alcohol	ug/L	ND	100	01/12/10 00:27	
tert-Amylmethyl ether	ug/L	ND	10.0	01/12/10 00:27	
tert-Butyl Alcohol	ug/L	ND	100	01/12/10 00:27	
tert-Butyl Formate	ug/L	ND	50.0	01/12/10 00:27	
Toluene	ug/L	ND	5.0	01/12/10 00:27	
Xylene (Total)	ug/L	ND	10.0	01/12/10 00:27	
1,2-Dichloroethane-d4 (S)	%	91	79-120	01/12/10 00:27	
4-Bromofluorobenzene (S)	%	97	87-109	01/12/10 00:27	
Dibromofluoromethane (S)	%	98	85-115	01/12/10 00:27	
Toluene-d8 (S)	%	100	70-120	01/12/10 00:27	

LABORATORY CONTROL SAMPLE: 389028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.3	99	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	55-148	
Benzene	ug/L	50	53.6	107	78-128	
Diisopropyl ether	ug/L	50	51.7	103	74-131	
Ethanol	ug/L	2000	2810	140	53-150	
Ethyl-tert-butyl ether	ug/L	100	80.6	81	77-136	
Ethylbenzene	ug/L	50	53.8	108	80-127	
m&p-Xylene	ug/L	100	110	110	82-127	
Methyl-tert-butyl ether	ug/L	50	49.5	99	71-130	
Naphthalene	ug/L	50	58.6	117	52-136	
o-Xylene	ug/L	50	53.3	107	83-124	
tert-Amyl Alcohol	ug/L	1000	796	80	50-150	
tert-Amylmethyl ether	ug/L	100	73.9	74	50-150	
tert-Butyl Alcohol	ug/L	500	573	115	50-150	
tert-Butyl Formate	ug/L	400	323	81	50-150	
Toluene	ug/L	50	53.1	106	76-126	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

LABORATORY CONTROL SAMPLE: 389028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	163	109	83-125	
1,2-Dichloroethane-d4 (S)	%			92	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			99	70-120	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: MSV/9629 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9260789009, 9260789010, 9260789011, 9260789012, 9260789013, 9260789014, 9260789015, 9260789016, 9260789017, 9260789018, 9260789022, 9260789023

METHOD BLANK: 389246 Matrix: Water
Associated Lab Samples: 9260789009, 9260789010, 9260789011, 9260789012, 9260789013, 9260789014, 9260789015, 9260789016, 9260789017, 9260789018, 9260789022, 9260789023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	01/13/10 02:35	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	01/13/10 02:35	
Benzene	ug/L	ND	5.0	01/13/10 02:35	
Diisopropyl ether	ug/L	ND	5.0	01/13/10 02:35	
Ethanol	ug/L	ND	200	01/13/10 02:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	01/13/10 02:35	
Ethylbenzene	ug/L	ND	5.0	01/13/10 02:35	
m&p-Xylene	ug/L	ND	10.0	01/13/10 02:35	
Methyl-tert-butyl ether	ug/L	ND	5.0	01/13/10 02:35	
Naphthalene	ug/L	ND	5.0	01/13/10 02:35	
o-Xylene	ug/L	ND	5.0	01/13/10 02:35	
tert-Amyl Alcohol	ug/L	ND	100	01/13/10 02:35	
tert-Amylmethyl ether	ug/L	ND	10.0	01/13/10 02:35	
tert-Butyl Alcohol	ug/L	ND	100	01/13/10 02:35	
tert-Butyl Formate	ug/L	ND	50.0	01/13/10 02:35	
Toluene	ug/L	ND	5.0	01/13/10 02:35	
Xylene (Total)	ug/L	ND	10.0	01/13/10 02:35	
1,2-Dichloroethane-d4 (S)	%	103	79-120	01/13/10 02:35	
4-Bromofluorobenzene (S)	%	95	87-109	01/13/10 02:35	
Dibromofluoromethane (S)	%	99	85-115	01/13/10 02:35	
Toluene-d8 (S)	%	97	70-120	01/13/10 02:35	

LABORATORY CONTROL SAMPLE: 389247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.2	104	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	921	92	55-148	
Benzene	ug/L	50	53.5	107	78-128	
Diisopropyl ether	ug/L	50	51.9	104	74-131	
Ethanol	ug/L	2000	1910	96	53-150	
Ethyl-tert-butyl ether	ug/L	100	98.7	99	77-136	
Ethylbenzene	ug/L	50	53.9	108	80-127	
m&p-Xylene	ug/L	100	108	108	82-127	
Methyl-tert-butyl ether	ug/L	50	51.3	103	71-130	
Naphthalene	ug/L	50	51.5	103	52-136	
o-Xylene	ug/L	50	53.7	107	83-124	
tert-Amyl Alcohol	ug/L	1000	907	91	50-150	
tert-Amylmethyl ether	ug/L	100	101	101	50-150	
tert-Butyl Alcohol	ug/L	500	486	97	50-150	
tert-Butyl Formate	ug/L	400	368	92	50-150	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

LABORATORY CONTROL SAMPLE: 389247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	53.4	107	76-126	
Xylene (Total)	ug/L	150	161	108	83-125	
1,2-Dichloroethane-d4 (S)	%			97	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 389248 389249

Parameter	Units	9260790011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	56.5	58.0	113	116	74-136	3	30	
Toluene	ug/L	ND	50	50	56.3	56.9	113	114	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						102	100	79-120			
4-Bromofluorobenzene (S)	%						94	95	87-109			
Dibromofluoromethane (S)	%						98	98	85-115			
Toluene-d8 (S)	%						98	99	70-120			

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(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: MSV/9630 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9260789001, 9260789020, 9260789021

METHOD BLANK: 389253 Matrix: Water
Associated Lab Samples: 9260789001, 9260789020, 9260789021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	01/13/10 02:35	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	01/13/10 02:35	
Benzene	ug/L	ND	5.0	01/13/10 02:35	
Diisopropyl ether	ug/L	ND	5.0	01/13/10 02:35	
Ethanol	ug/L	ND	200	01/13/10 02:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	01/13/10 02:35	
Ethylbenzene	ug/L	ND	5.0	01/13/10 02:35	
m&p-Xylene	ug/L	ND	10.0	01/13/10 02:35	
Methyl-tert-butyl ether	ug/L	ND	5.0	01/13/10 02:35	
Naphthalene	ug/L	ND	5.0	01/13/10 02:35	
o-Xylene	ug/L	ND	5.0	01/13/10 02:35	
tert-Amyl Alcohol	ug/L	ND	100	01/13/10 02:35	
tert-Amylmethyl ether	ug/L	ND	10.0	01/13/10 02:35	
tert-Butyl Alcohol	ug/L	ND	100	01/13/10 02:35	
tert-Butyl Formate	ug/L	ND	50.0	01/13/10 02:35	
Toluene	ug/L	ND	5.0	01/13/10 02:35	
Xylene (Total)	ug/L	ND	10.0	01/13/10 02:35	
1,2-Dichloroethane-d4 (S)	%	103	79-120	01/13/10 02:35	
4-Bromofluorobenzene (S)	%	95	87-109	01/13/10 02:35	
Dibromofluoromethane (S)	%	99	85-115	01/13/10 02:35	
Toluene-d8 (S)	%	97	70-120	01/13/10 02:35	

LABORATORY CONTROL SAMPLE: 389254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.2	104	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	921	92	55-148	
Benzene	ug/L	50	53.5	107	78-128	
Diisopropyl ether	ug/L	50	51.9	104	74-131	
Ethanol	ug/L	2000	1910	96	53-150	
Ethyl-tert-butyl ether	ug/L	100	98.7	99	77-136	
Ethylbenzene	ug/L	50	53.9	108	80-127	
m&p-Xylene	ug/L	100	108	108	82-127	
Methyl-tert-butyl ether	ug/L	50	51.3	103	71-130	
Naphthalene	ug/L	50	51.5	103	52-136	
o-Xylene	ug/L	50	53.7	107	83-124	
tert-Amyl Alcohol	ug/L	1000	907	91	50-150	
tert-Amylmethyl ether	ug/L	100	101	101	50-150	
tert-Butyl Alcohol	ug/L	500	486	97	50-150	
tert-Butyl Formate	ug/L	400	368	92	50-150	
Toluene	ug/L	50	53.4	107	76-126	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

LABORATORY CONTROL SAMPLE: 389254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	161	108	83-125	
1,2-Dichloroethane-d4 (S)	%			97	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			101	70-120	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

QC Batch: MSV/9634
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9260789019

METHOD BLANK: 389521
Matrix: Water
Associated Lab Samples: 9260789019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	01/13/10 02:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	01/13/10 02:39	
Benzene	ug/L	ND	5.0	01/13/10 02:39	
Diisopropyl ether	ug/L	ND	5.0	01/13/10 02:39	
Ethanol	ug/L	ND	200	01/13/10 02:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	01/13/10 02:39	
Ethylbenzene	ug/L	ND	5.0	01/13/10 02:39	
m&p-Xylene	ug/L	ND	10.0	01/13/10 02:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	01/13/10 02:39	
Naphthalene	ug/L	ND	5.0	01/13/10 02:39	
o-Xylene	ug/L	ND	5.0	01/13/10 02:39	
tert-Amyl Alcohol	ug/L	ND	100	01/13/10 02:39	
tert-Amylmethyl ether	ug/L	ND	10.0	01/13/10 02:39	
tert-Butyl Alcohol	ug/L	ND	100	01/13/10 02:39	
tert-Butyl Formate	ug/L	ND	50.0	01/13/10 02:39	
Toluene	ug/L	ND	5.0	01/13/10 02:39	
Xylene (Total)	ug/L	ND	10.0	01/13/10 02:39	
1,2-Dichloroethane-d4 (S)	%	96	79-120	01/13/10 02:39	
4-Bromofluorobenzene (S)	%	97	87-109	01/13/10 02:39	
Dibromofluoromethane (S)	%	100	85-115	01/13/10 02:39	
Toluene-d8 (S)	%	102	70-120	01/13/10 02:39	

LABORATORY CONTROL SAMPLE: 389522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.0	102	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	991	99	55-148	
Benzene	ug/L	50	52.3	105	78-128	
Diisopropyl ether	ug/L	50	50.6	101	74-131	
Ethanol	ug/L	2000	1800	90	53-150	
Ethyl-tert-butyl ether	ug/L	100	105	105	77-136	
Ethylbenzene	ug/L	50	52.7	105	80-127	
m&p-Xylene	ug/L	100	108	108	82-127	
Methyl-tert-butyl ether	ug/L	50	56.0	112	71-130	
Naphthalene	ug/L	50	60.8	122	52-136	
o-Xylene	ug/L	50	52.4	105	83-124	
tert-Amyl Alcohol	ug/L	1000	1060	106	50-150	
tert-Amylmethyl ether	ug/L	100	107	107	50-150	
tert-Butyl Alcohol	ug/L	500	511	102	50-150	
tert-Butyl Formate	ug/L	400	410	103	50-150	
Toluene	ug/L	50	51.8	104	76-126	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9260789

LABORATORY CONTROL SAMPLE: 389522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	160	107	83-125	
1,2-Dichloroethane-d4 (S)	%			96	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 389523 389524

Parameter	Units	9260790023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	57.3	54.7	115	109	74-136	5	30	
Toluene	ug/L	ND	50	50	56.1	53.4	112	106	73-131	5	30	
1,2-Dichloroethane-d4 (S)	%						103	101	79-120			
4-Bromofluorobenzene (S)	%						98	97	87-109			
Dibromofluoromethane (S)	%						104	103	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9260789

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

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1351092

Section A Required Client Information:

Company: KIM Env
Address: P.O Box 2204
Goose Creek SC
Email To: mkiller@kimconsult.net
Phone: 843 879 4565 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Killer
Copy To:
Purchase Order No.:
Project Name: Short stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 824-3

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX Naph MTBE	1,2 DCA	Lead EDB	8 Oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1R	WT	G			1-5-10	1440		7										X	X	X	X	X		001
2	MW-2R						1500																		002
3	MW-4R						1540																		003
4	MW-5						1520																		004
5	MW-6						1550																		005
6	MW-7						1400																		006
7	MW-8						1430																		007
8	MW-9						1320																		008
9	MW-10						1330																		009
10	MW-11						1350																		010
11	MW-12						1200																		011
12	MW-13						1210																		012

9D10789

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Jason Rader	1-6-10	1500	Fed Ex	1-6-10	1500				
				[signature] KPACE	1-07-10	0930	29	4	N	4

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Rader
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1-6-10

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
29	4	N	4

*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.

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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

1351094

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KM Env	Report To: Mark Killer	Attention:
Address: P.O Box 2704	Copy To:	Company Name:
Goose Creek SC		Address:
Email To: mkiller131@comcast.net	Purchase Order No.:	Pace Quote Reference:
Phone: 813 870 4285 Fax:	Project Name: Short stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX 16 ph MTBE	1,2 DCA	Lead	EDB	8 Oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	mw-14	WT	G			1-5-10	1220												X	X	X	X	X		013
2	mw-15						1250																		014
3	mw-16						1230																		015
4	mw-17						1240																		016
5	mw-18						1310																		017
6	mw-19						1530																		018
7	mw-20						1450																		019
8	mw-21						1410																		020
9	mw-22						1340																		021
10	DW-1						1420																		022
11	DW-2						1300																		023
12																									

9260789

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Jason Boatr	1-6-10	1500	Fed Ex	1-6-10	1500				
				[signature] PACE	1-07-10	0930	2.9	Y	N	Y

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Boatr

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1-6-10

*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

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 25.26 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.61							
Specific Cond. (mS/cm)	.091							
Turbidity (*)	154							
Dissolved Oxygen	1.72							
Water Temp (°C)	16.3							
Salinity	0.00							
OVA Readings								

Sample Time: 1040

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-2R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.72 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.74							
Specific Cond. (mS/cm)	.117							
Turbidity (*)	194							
Dissolved Oxygen	1.30							
Water Temp (°C)	16.7							
Salinity	0.06							
OVA Readings								

Sample Time: 1500

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-3R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 29.75 - 29.96 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (*)								
Dissolved Oxygen								
Water Temp (°C)								
Salinity								
OVA Readings								

Sample Time: 1510 No sample Free product

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 4R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 26.99 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.60							
Specific Cond. (mS/cm)	.107							
Turbidity (*)	194							
Dissolved Oxygen	1.61							
Water Temp (°C)	15.8							
Salinity	0.08							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 29.87 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	6.02							
Specific Cond. (mS/cm)	.043							
Turbidity (*)	271							
Dissolved Oxygen	1.66							
Water Temp (°C)	15.9							
Salinity	0.00							
OVA Readings								

Sample Time: 1520

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 28.23 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.54							
Specific Cond. (mS/cm)	.043							
Turbidity (*)	152							
Dissolved Oxygen	3.15							
Water Temp (°C)	15.8							
Salinity	0.00							
OVA Readings								

Sample Time: 1550

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 27.27 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.15							
Specific Cond. (mS/cm)	.054							
Turbidity (*)	194							
Dissolved Oxygen	1.73							
Water Temp (°C)	17.5							
Salinity	0.00							
OVA Readings								

Sample Time: 1400

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 26.69 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	~~8559~~							
pH (s.u.)	~~.00~~ 6.59							
Specific Cond. (mS/cm)	.057							
Turbidity (*)	128							
Dissolved Oxygen	1.92							
Water Temp (°C)	16.3							
Salinity	0.00							
OVA Readings								

Sample Time: 1430

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 26.93 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.76							
Specific Cond. (mS/cm)	.136							
Turbidity (*)	128							
Dissolved Oxygen	6.24							
Water Temp (°C)	13.8							
Salinity	0.00							
OVA Readings								

Sample Time: 1326

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 27.17 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	6.24							
Specific Cond. (mS/cm)	.063							
Turbidity (*)	137							
Dissolved Oxygen	2.81							
Water Temp (°C)	16.7							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 25.35 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.40							
Specific Cond. (mS/cm)	.056							
Turbidity (*)	151							
Dissolved Oxygen	3.63							
Water Temp (°C)	16.5							
Salinity	0.00							
OVA Readings								

Sample Time: 1356

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 22.28 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.13							
Specific Cond. (mS/cm)	.062							
Turbidity (*)	125							
Dissolved Oxygen	1.58							
Water Temp (°C)	17.6							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 27.18 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.11							
Specific Cond. (mS/cm)	.047							
Turbidity (*)	127							
Dissolved Oxygen	2.01							
Water Temp (°C)	18.6							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 22.71 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.57							
Specific Cond. (mS/cm)	.081							
Turbidity (*)	121							
Dissolved Oxygen	4.47							
Water Temp (°C)	18.2							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. ____ — serial no. ____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 15

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ____ft.
Depth to GW (DWG) 21.68 ft.

Length of Water Column (LWC=TWD-DGW) ____ft.

1 Csg. Volume (LWC*C)= ____ x .163 = ____ gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.67							
Specific Cond. (mS/cm)	.090							
Turbidity (*)	257							
Dissolved Oxygen	3.31							
Water Temp (°C)	18.5							
Salinity	0.00							
OVA Readings								

Sample Time: 1250

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # **MW-** 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 27.53 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.65							
Specific Cond. (mS/cm)	.051							
Turbidity (*)	125							
Dissolved Oxygen	4.86							
Water Temp (°C)	18.1							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ~~22.7~~ ft.
Depth to GW (DWG) 22.75 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.90							
Specific Cond. (mS/cm)	.065							
Turbidity (*)	251							
Dissolved Oxygen	4.76							
Water Temp (°C)	17.5							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.33 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	6.13							
Specific Cond. (mS/cm)	.663							
Turbidity (*)	36.1							
Dissolved Oxygen	2.90							
Water Temp (°C)	17.8							
Salinity	0.00							
OVA Readings								

Sample Time: 1310

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 31.25 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	6.02							
Specific Cond. (mS/cm)	.023							
Turbidity (*)	96							
Dissolved Oxygen	3.91							
Water Temp (°C)	14.3							
Salinity	0.00							
OVA Readings								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-20

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 29.37 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	6.02							
Specific Cond. (mS/cm)	.093							
Turbidity (*)	276							
Dissolved Oxygen	2.48							
Water Temp (°C)	16.9							
Salinity	0.60							
OVA Readings								

Sample Time: 1450

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-21

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 27.32 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	5.21							
Specific Cond. (mS/cm)	.084							
Turbidity (*)	171							
Dissolved Oxygen	2.41							
Water Temp (°C)	16.4							
Salinity	0.00							
OVA Readings								

Sample Time: 1410

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 26.61 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)	4.96							
Specific Cond. (mS/cm)	.058							
Turbidity (*)	191							
Dissolved Oxygen	2.98							
Water Temp (°C)	17.5							
Salinity	0.00							
OVA Readings								

Sample Time: 1346

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-DW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 63 ft.
Depth to GW (DWG) 28.19 ft.

Length of Water Column (LWC=TWD-DGW) 34.81 ft.

1 Csg. Volume (LWC*C)= 34.81 x .163 = 5.67 gals.
3 Csg. Volumes = 3 x 5.67 = 17.01 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	6	12	18					
Time (military)								
pH (s.u.)	5.66							
Specific Cond. (mS/cm)	.160							
Turbidity (*)	0							
Dissolved Oxygen	2.91							
Water Temp (°C)	14.6							
Salinity	0.00							
OVA Readings								

Sample Time: 1420 Dry @ 9 gal

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 1/5/10
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 45 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 6W-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 21.14 ft.

Length of Water Column (LWC=TWD-DGW) 38.86 ft.

1 Csg. Volume (LWC*C)= 38.86 x .163 = 6.33 gals.
3 Csg. Volumes = 3 x 6.33 = 19 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	7	14	21					
Time (military)								
pH (s.u.)	5.82							
Specific Cond. (mS/cm)	.091							
Turbidity (*)	237							
Dissolved Oxygen	5.51							
Water Temp (°C)	17.6							
Salinity	0.00							
OVA Readings								

Sample Time: 1300 Dry@ 8.5gal

APPENDIX C

Historical Groundwater Elevations

TABLE 1 Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
	1/5/10			--	28.26	75.36
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
	4/8/09			--	30.45	74.66
	1/5/10			--	29.72	75.39
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
	4/8/09			--	30.51	75.16
	1/5/10			29.75	29.86	FP
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
	4/8/09			--	29.60	74.84
	1/5/10			--	28.99	75.45
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
	4/8/09			--	30.55	75.07
	1/5/10			--	29.87	75.75
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
	4/8/09			--	28.92	74.95
	1/5/10			--	28.23	75.64
MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
	4/8/09			--	28.05	74.50
	1/5/10			--	27.27	75.28
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
	4/8/09			--	27.44	74.38
	1/5/10			--	26.64	75.18
MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
	4/8/09			--	27.71	74.32
	1/5/10			--	26.93	75.10
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
	4/8/09			--	27.94	74.36
	1/5/10			--	27.17	75.13
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
	4/8/09			--	26.22	74.23
	1/5/10			--	25.38	75.07

TABLE 1 CONT. Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
	4/8/09			--	27.98	74.42
	1/5/10			--	27.25	75.15
MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
	4/8/09			--	27.90	74.01
	1/5/10			--	27.18	74.73
MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
	4/8/09			--	28.43	73.34
	1/5/10			--	27.71	74.06
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
	4/8/09			--	21.90	72.70
	1/5/10			--	21.08	73.52
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82
	4/8/09			--	28.34	72.92
	1/5/10			--	27.53	73.73
MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
	4/8/09			--	28.50	73.19
	1/5/10			--	27.75	73.94
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
	4/8/09			--	25.21	72.98
	1/5/10			--	24.33	73.86
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
	4/8/09			--	28.12	78.74
	1/5/10			--	31.25	75.61
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
	1/5/10			--	29.37	75.46
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
	1/5/10			--	27.32	75.34
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
	1/5/10			--	26.01	75.22
DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
	4/8/09			--	27.75	74.48
	1/5/10			--	28.19	74.04
DW-2	12/8/08	94.62	40-60	--	23.31	71.31
	4/8/09			--	21.90	72.72
	1/5/10			--	21.14	73.48

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAY 0 6 2010

UST DOCKET 15tch

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

Re: **AFVR Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA # 38217
Release reported December 30, 1991
Monitoring Report received January 19, 2010
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report and determined the next necessary scope of work to be 3 Aggressive Fluid Vapor Recovery (AFVR) events to remove free phase product and Chemicals of Concern (CoCs) from MW-3R and MW-20. Please have your contractor conducted the AFVR events 30 days apart.

Cost Agreement # 38217 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR activities may proceed immediately upon receipt of this letter. The report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR events noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR events started and ended, ambient air temperature, and general weather conditions during the AFVR events.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.
- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).
- The total volume of free phase product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.
- Recovered free phase petroleum and groundwater must be accepted by a permitted 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.

KLM Environmental, LLC. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An AFVR report and invoice are due within 90 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, 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 work.

The Department grants pre-approval for transportation of virgin petroleum impacted groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report.

On all correspondence concerning this site, please reference UST Permit # 05678. If there are any questions concerning this project, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: KLM Environmental, LLC., PO Box 2704, Goose Creek, SC 29445 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 38217

Facility: 05678 SHORT STOP
BRINEYSM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	3.0000	575.00	1,725.00
		B	PERSONNEL	3.0000	290.00	870.00
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	3,000.0000	0.60	1,800.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	14,235.00	2,135.25
23 EFR						
		A	8 HOUR EVENT	3.0000	3,000.00	9,000.00
		C	OFF GAS TREATMENT	24.0000	35.00	840.00
				Total Amount		16,370.25

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704 843-870-4285 Phone
Goose Creek, SC 29445 843-797-1893 Fax

UST
AUG 0 4 2010
PROGRAM

August 2, 2010

Ms. Stephanie Briney, Hydrogeologist
SCDHEC – BUSTM
2600 Bull Street
Columbia, S.C. 29201

Re: Short Stop
Permit # 05678 CA # 38217

Dear Ms. Briney,

This letter, along with its attachments, is presented to document the results of the Aggressive Fluid Vapor Recovery (AFVR) events performed on May 25th, June 25th, July 27th, 2010. Results from each event are provided on the attached tables. As you requested, the monitoring wells MW-3R and MW-20 were gauged prior to and following each event. Emissions calculations were performed for each event and a total of 1.79 gallons of petroleum product were recovered as vapor. The actual amount recovered is most likely higher as exhaust gas concentrations were taken after carbon treatment which was necessary at this site. A total of 2.5 gallons of petroleum product was recovered as measured in the vacuum truck following the AFVR events.

All of the remaining information requested in the AFVR letter is provided as an attachment. It has been a pleasure working with you on this project. Please call me directly if you have any questions at 843-870-4285.

Sincerely,

KLM Environmental, LLC

Mark L. Keller, PG
President

Enclosures(10): AFVR information tables; Waste Manifests; Emissions Calculations; Site Map

UST
DOCKET
1670

Site Location: Short Stop, 613 Musgrove St, Clinton, SC	Date: 5/25/10
Site Conditions: Site was in good condition. Wells were found in good condition.	

AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Wayne Infinger	General Weather Conditions: Sunny
Ambient Air Temperature: 80 Fahrenheit	Estimated Gallons of Product Removed: 1.25 gallons	Initial Product Thickness: MW-3R = 3.65 MW-20 = 0.00
Final Product Thickness: MW-3R = 0.00 MW-20 = 0.00	AFVR Start Time: 12:00	AFVR End Time: 20:00

Time(Readings Every 30 Minutes)	Recovery Rate				Air Emission Conc. Measurements in ppm (Carbon Filter on Exhaust Gas)*
	Vacuum Inches of Hg	Temp Degrees F	Stack Vel. mph	Humidity	
12:00	-21	90.2	3.3	53.8	239
12:30	-21	98.3	3.5	57.2	387
13:00	-21	105.6	3.9	43.8	390
13:30	-21	112.2	3.8	41.9	364
14:00	-21	120.4	3.7	44.1	334
14:30	-21	123.7	4.0	39.7	263
15:00	-21	129.5	3.6	40.5	313
15:30	-21	133.2	4.1	37.3	279
16:00	-21	131.9	3.9	38.1	299
16:30	-21	128.1	4.2	35.8	216
17:00	-21	125.8	3.8	30.9	241
17:30	-21	132.3	3.5	33.6	294
18:00	-21	137.1	3.7	31.5	261
18:30	-21	132.6	3.6	35.0	196
19:00	-21	137.9	4.2	27.8	174
19:30	-21	139.3	3.8	33.2	161
20:00	-21	131.5	4.0	29.6	159

	Start	End
MW-3R	27.17 – 30.82	30.36
MW-20	27.78	27.31

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

AFVR Table
Short Stop
613 Musgrove St
Clinton, SC
Site ID 05678 5/25/10

5/25/2010

Equations to determine Pollutant Mass Removal rate as gasoline (PMRg):

$PPM_w = PPM_{measured} =$	268.8235294
$PPM_d = PPM_w / (1-Bws) =$	305.4343072
$PPM_c = (PPM_d)(K) =$	1221.737229
$C_{c:m} = PPM_c(M_c/K_3) =$	609.5996725
$C_c = C_{c:m}(62.43x10^{-9}) =$	3.80573E-05
$PMR_c = C_c(Qstd)(60) =$	0.212021344
$PMR_g = (PMR_c)(M_g/M_{cg}) =$	**0.245373017 lbs of emissions per hour**
	0.314077461 Gallons of emissions per 8 hours

US Water Recovery

Non-Hazardous Wastewater Manifest

Number:

1. Generator's EPA ID# (if applicable):
Waste ID Number:

2. Generator's Name and Mailing Address:
Short Stop
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
KLM Environmental
P.O. Box 3704 Goose Creek S.C. 29445
Phone (843) 870-4785
P O #:

4. Transporter Company Name:
Vacuum Recovery Tech
118 Springhill Dr. Suite E Goose Creek SC. 29445
Phone (843) 906-8759

Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:
U S Water Recovery
435 Old Mt. Holly Rd.
Mt. Holly, SC 29445
Phone: (843) 797-8674
Fax: (843) 797-2126

Mailing Address:
U S Water Recovery
210 S. Cedar Street
Summerville, SC 29483
Phone: (843) 797-3111
Fax: (843) 797-1884

7. Facility U.S. EPA ID#:

Start Level: | End Level: | Total Gallons: | Tank Number

8. U.S. DOT Desciption	Container No.	Container Type	Unit	Quantity
* Non-Hazardous, non-regulated waste water				1060

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Jason Parks | Signature: [signature] | Date: 5-27-16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Wayne T. Stines | Signature: [signature] | Date: 5-27-16

11. Discrepancy indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials:

Printed/Typed Name: [illegible] | Signature: [signature] | Date: 5-27-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

6516

Site Location: Short Stop, 613 Musgrove St, Clinton, SC	Date: 6/25/10
Site Conditions: Site was in good condition. Wells were found in good condition.	

AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Wayne Infinger	General Weather Conditions: Sunny
Ambient Air Temperature: 93 Fahrenheit	Estimated Gallons of Product Removed: 0.00 gallons	Initial Product Thickness: MW-3R = 0.00 MW-20 = 0.00
Final Product Thickness: MW-3R = 0.00 MW-20 = 0.00	AFVR Start Time: 11:30	AFVR End Time: 19:30

Time(Readings Every 30 Minutes)	Recovery Rate				Air Emission Conc. Measurements in ppm (Carbon Filter on Exhaust Gas)*
	Vacuum Inches of Hg	Temp Degrees F	Stack Vel. mph	Humidity	
11:30	-21	101.6	4.3	66.4	1614
12:00	-21	104.6	4.2	67.0	1912
12:30	-21	113.8	4.4	69.7	1951
13:00	-21	118.5	4.5	61.3	976
13:30	-21	121.9	4.2	57.0	891
14:00	-21	124.7	4.1	54.8	731
14:30	-21	127.4	4.6	55.6	555
15:00	-21	123.3	4.3	49.5	640
15:30	-21	131.6	4.0	53.2	869
16:00	-21	134.9	4.5	52.3	823
16:30	-21	125.4	4.1	54.6	949
17:00	-21	137.2	4.6	53.8	702
17:30	-21	129.9	4.4	61.9	684
18:00	-21	128.7	4.3	60.7	694
18:30	-21	129.4	4.4	58.2	724
19:00	-21	129.9	4.5	59.4	707
19:30	-21	130.7	4.5	60.2	691

	Start	End
MW-3R	27.29	27.34
MW-20	27.76	28.83

6/25/2010

Equations to determine Pollutant Mass Removal rate as gasoline (PMRg):

$PPM_w = PPM_{measured} =$	947.8235294
$PPM_d = PPM_w / (1-Bws) =$	1076.906563
$PPM_c = (PPM_d)(K) =$	4307.626251
$C_{c:m} = PPM_c(M_c/K_3) =$	2149.339064
$C_c = C_{c:m}(62.43x10^{-9}) =$	0.000134183
$PMR_c = C_c(Qstd)(60) =$	0.854832783
$PMR_g = (PMR_c)(M_g/M_{cg}) =$	**0.989300862 lbs of emissions per hour**
	1.266305103 Gallons of emissions per 8 hours

US Water Recovery

Non-Hazardous Wastewater Manifest

Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Short Stop
Phone ( )
P.O.#:

3. Agent of Generator and Mailing Address: KLM Environmental
P. Box 3704 Goose Creek SC 29445
Phone (843) 870-4285
P.O.#:

4. Transporter Company Name: Uranium Recovery Tech
[illegible] Hall Dr. Suite F Goose Creek SC 29445
Phone (843) 906-8759

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address: U.S. Water Recovery, 4[illegible] Old Mt. Holly Rd., Mt. Holly, SC 29445
Phone: (843) 797-8574
Fax: (843) 797-2126

Mailing Address: U.S. Water Recovery, 218 S. Cedar Street, Summerville, SC 29483
Phone: (843) 797-3111
Fax: (843) 797-1884

7. Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number:

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
Non-Hazardous, non-regulated waste water				280
Gum St (1-28-10)				138
Gum St (7-1-10)				1169
Oak Ridge Food Mart				125 (3 drums)

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Jason Brooks Signature: Jason Brooks Date: 7-2-10

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] Signature: [illegible] Date: 7-2-10

11. Discrepancy Indication Space:

12. Facility Owner or Operator Certification of Receipt of Materials
Printed/Typed Name: David Ward Signature: David Ward Date: 7-2-10

White - Facility Yellow - Office Pink - Transporter Blue - Generator

6577

Site Location: Short Stop, 613 Musgrove St, Clinton, SC	Date: 7/27/10
Site Conditions: Site was in good condition. Wells were found in good condition.	

AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Wayne Infinger	General Weather Conditions: Sunny
Ambient Air Temperature: 86 Fahrenheit	Estimated Gallons of Product Removed: 1.25 gallons	Initial Product Thickness: MW-3R = 3.03 MW-20 = 0.00
Final Product Thickness: MW-3R = 0.00 MW-20 = 0.00	AFVR Start Time: 11:30	AFVR End Time: 19:30

Time(Readings Every 30 Minutes)	Recovery Rate				Air Emission Conc. Measurements in ppm (Carbon Filter on Exhaust Gas)*
	Vacuum Inches of Hg	Temp Degrees F	Stack Vel. mph	Humidity	
11:30	-21	94.6	3.5	50.6	169
12:00	-21	105.8	3.8	45.9	177
12:30	-21	117.3	4.4	42.1	148
13:00	-21	115.6	4.1	43.5	191
13:30	-21	124.9	4.6	41.7	151
14:00	-21	122.3	3.9	36.2	194
14:30	-21	129.9	4.1	35.8	203
15:00	-21	132.5	4.4	33.6	166
15:30	-21	130.8	4.2	34.5	140
16:00	-21	140.1	3.8	32.8	169
16:30	-21	138.6	4.1	31.9	171
17:00	-21	141.2	3.9	33.3	144
17:30	-21	137.8	4.1	38.9	202
18:00	-21	122.9	4.6	40.2	155
18:30	-21	127.3	4.4	45.9	116
19:00	-21	130.6	4.0	43.5	143
19:30	-21	128.9	4.7	40.6	172

	Start	End
MW-3R	27.30 – 31.16	30.63
MW-20	28.13	28.17

7/27/2010

Equations to determine Pollutant Mass Removal rate as gasoline (PMRg):

$PPM_w = PPM_{measured} =$	165.3529412
$PPM_d = PPM_w / (1-Bws) =$	187.8721745
$PPM_c = (PPM_d)(K) =$	751.488698
$C_{c:m} = PPM_c(M_c/K_3) =$	374.9638248
$C_c = C_{c:m}(62.43x10^{-9}) =$	2.3409E-05
$PMR_c = C_c(Qstd)(60) =$	0.142076047
$PMR_g = (PMR_c)(M_g/M_{cg}) =$	**0.164425089 lbs of emissions per hour**
	0.210464113 Gallons of emissions per 8 hours

US Water Recovery

Non-Hazardous Wastewater Manifest

Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Short Stop
Phone ( )
PO#:

3. Agent of Generator and Mailing Address: VLM Environmental
Po Box 2704 Goose Creek S.C. 29445
Phone (843) 797-7884
PO#:

4. Transporter Company Name: Vacuum Recovery Tech
118 Spring Hall Dr. Suite E Goose Creek S.C. 29445
Phone (843) 906-8759
Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address: U S Water Recovery, 435 Old Mt. Holly Rd., Mt. Holly, SC 29445
Phone: (843) 797-8874
Fax: (843) 797-2126

Mailing Address: U S Water Recovery, 210 S. Cedar Street, Summerville, SC 29483
Phone: (843) 797-3111
Fax: (843) 797-1884

7. Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number

8. U.S. DOT Desciption	Container No.	Container Type	Unit	Quantity
Non-Hazardous, non-regulated waste water				580
Gum Street				164
Youngs #1				1711
Ocean Lake				3 (1drum)
American Street				39 (1drum)

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Jason Boots Signature: Jason Boots Date: 7-30-10

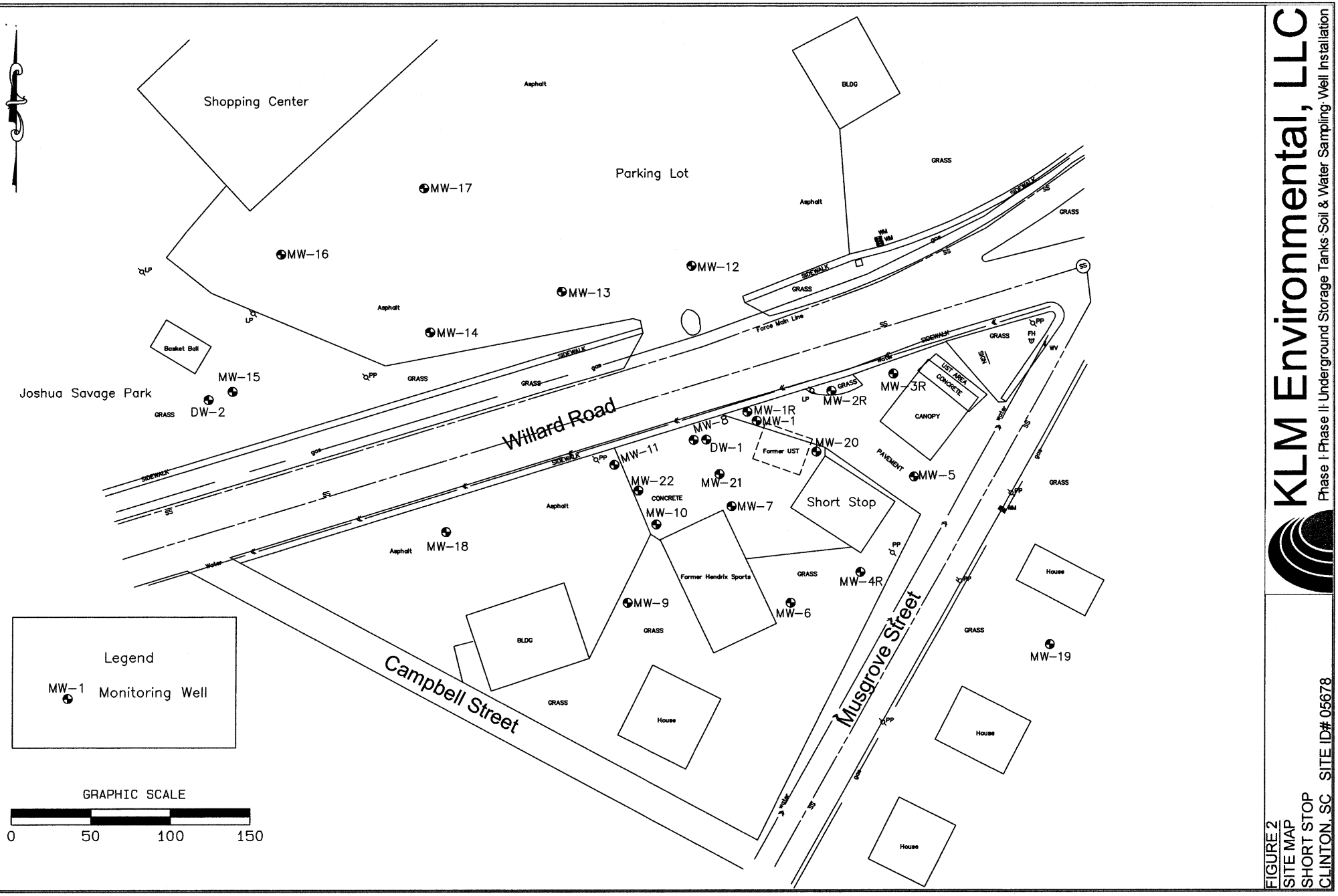
10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Wayne Infinger Signature: Wayne Infinger Date: 7-30-10

11. Discrepancy indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Jimmy Moran Signature: [signature] Date: 7/30/10

White - Facility Yellow - Office Pink - Transporter Blue - Generator

6047



KLM Environmental, LLC

Phase I: Phase II: Underground Storage Tanks: Soil & Water Sampling: Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

NOV 0 4 2010

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

17466
UST
DOCKET

Re: **Groundwater Sampling Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA # 39667
Release reported December 30, 1991
Aggressive Fluid Vapor Recovery Report received August 4, 2010
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Management Division recognizes your commitment to continue work at this site using KLM Environmental, LLC. as your contractor. The next appropriate scope of work at the site is to conduct a comprehensive groundwater sampling event.

All monitoring wells should be sampled for BTEX+naph+MtBE+DCA (EPA Method 8260), EDB (EPA Method 8011) and lead (no-purge sample, EPA Method 6010). Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, State Underground Petroleum Environmental Response Bank (SUPERB) payment may be denied since the analysis cannot be used as the basis for a decision

Cost Agreement # 39667 has been approved in the amount shown on the enclosed cost agreement form for the sampling. Your contractor should submit sampling results to the Division in a monitoring report containing information stipulated in the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report should also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to ground water, measurable free-phase product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Division, presented in tabular form. Groundwater laboratory analytical data for all monitoring wells presented in tabular format.
- A groundwater elevation contour map of the site based on current potentiometric data.
- A Chemical of Concern (CoC) map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

KLM Environmental, LLC. can submit an invoice for direct billing from the SUPERB Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

The monitoring report and invoice are due within 60 days from the date of this letter. An interim invoice may not be submitted for this scope of work. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available

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

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. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soiland/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit # 05678. If there are any questions concerning this project, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: KLM Environmental, LLC., PO Box 2704, Goose Creek, SC 29445 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 39667

Facility: 05678 SHORT STOP
BRINEYSM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION					
		A GROUND WATER	2.0000	55.00	110.00
		D GROUNDWATER NO-PURGE	22.0000	35.00	770.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	24.0000	100.00	2,400.00
		BB 1,2-DCA	24.0000	10.75	258.00
		E LEAD	24.0000	20.00	480.00
		F EDB	24.0000	55.00	1,320.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	2.0000	90.00	180.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	6,098.00	914.70
			Total Amount		7,012.70

18tech
UST
DOCKET

UST
MAR 09 2011
PROGRAM

DECEMBER 2010 MONITORING REPORT

Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

December 16th, 2010

Prepared for:

Ms. Stephanie Briney
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC
UCC-0345
Post Office Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*

Project# 05143.6

SIGNATURE PAGE

This report entitled **"DECEMBER 2010 MONITORING REPORT" for Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

A Infinger For:

J. Micah Bennett
Hydrogeologist
KLM Environmental, LLC

Reviewed By:

Mark L Keller

Mark L. Keller, PG
President
KLM Environmental, LLC

12/17/10

Date

MARK L. KELLER
REGISTERED
Mark L Keller
No. 2311
12/17/10
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina (Appendix A, Figure 1). Currently there is one 12,000 gasoline UST located at the site in the tank basin. There are three dispensers associated with the tank located at the front of the store beneath the canopy. A release was reported on December 30, 1991 and assessment activities have been going on since that date. This report serves to present results of the sampling conducted at Short Stop at the request of the SCDHEC Project Manager.

2.0 SITE DESCRIPTION

The Short Stop site has twenty-two shallow wells located at the site along with two telescopic deep wells. On December 1st, 2010, KLM mobilized to the site and sampled all monitoring wells associated with the site. Figure 2 serves as a site map showing well locations. The piezometric data is provided in the following table and in Appendix A, Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	12/1/10	103.62	20-40	--	28.60	75.02
MW-2R	12/1/10	105.11	20-40	--	29.97	75.14
MW-3R	12/1/10	105.67	20-40	28.79	33.22	FP
MW-4R	12/1/10	104.44	20-40	--	29.44	75.00
MW-5	12/1/10	105.62	20-40	--	29.95	75.67
MW-6	12/1/10	103.87	20-40	--	28.92	74.95
MW-7	12/1/10	102.55	20-40	--	27.94	74.61
MW-8	12/1/10	101.82	20-40	--	27.12	74.70
MW-9	12/1/10	102.03	20-40	--	27.79	74.24
MW-10	12/1/10	102.30	20-40	--	27.91	74.39
MW-11	12/1/10	100.45	20-40	--	25.93	74.52
MW-12	12/1/10	102.40	20-40	--	27.46	74.94
MW-13	12/1/10	101.91	20-40	--	27.35	74.56
MW-14	12/1/10	101.77	20-40	--	27.91	73.86
MW-15	12/1/10	94.60	11-31	--	21.90	72.70
MW-16	12/1/10	101.26	19-39	--	27.98	73.28
MW-17	12/1/10	101.69	20-40	--	27.67	74.02
MW-18	12/1/10	98.19	20-40	--	25.15	73.04
MW-19	12/1/10	106.86	20-40	--	31.55	75.31
MW-20	12/1/10	104.83	20-40	--	29.73	75.10
MW-21	12/1/10	102.66	20-40	--	27.87	74.79
MW-22	12/1/10	101.23	20-40	--	26.57	74.66
DW-1*	12/1/10	102.23	58-63	--	25.51	76.72
DW-2*	12/1/10	94.62	55-60	--	21.90	72.72

*** Telescoping wells not used to construct the shallow piezometric map.**

Depths to fluid measurements were collected relative to the top of casing for each well using a hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch. Groundwater elevations were then determined by subtracting depth to fluid measurements from the top of casing elevations and a piezometric contour map of the uppermost aquifer surface was developed (Appendix A, Figure 3).

3.0 GROUNDWATER QUALITY

KLM personnel performed the groundwater-sampling event on December 8th, 2010. All monitoring wells were located and sampled. Results for all wells sampled are as follows:

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS	NS
MW-1R	4/8/09	**8500**	**6440**	**871**	4620	**3170**	**<500**	**80.7**	**35.2**	NS
	1/5/10	**8460**	**9170**	**1400**	8790	**7420**	**635**	4.7	**41.7**	**322**
	12/1/10	**6120**	**2900**	349	3260	**4950**	**<290**	<5.0	**13.8**	**<130**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02	NS
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS	NS
	4/8/09	**504**	97.8	41.9	361	16.2	<25.0	<5.0	<0.019	NS
	1/5/10	**777**	199	82.8	670	25.1	<25.0	<5.0	<0.020	<25.0
	12/1/10	**1080**	277	96.4	880	**61.5**	**<29.0**	<5.0	<0.019	**<13.0**
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02	NS
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS	NS
	4/8/09	**4380**	**18000**	**1420**	7470	**28400**	**<1000**	<5.0	<0.019	NS
	1/5/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	12/1/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02	NS
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS	NS
	4/8/09	**13.4**	<5.0	<5.0	3.6	6.4	<5.0	5.7	<0.019	NS
	1/5/10	**13.5**	<5.0	<5.0	6.1	5.8	<5.0	5.0	<0.019	<5.0
	12/1/10	**18.1**	1.9	<5.0	10.5	10.7	<5.0	4.7	<0.020	<5.0
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02	NS
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS	NS
	4/8/09	**931**	709	183	798	**53.2**	**<50.0**	13.5	<0.020	NS
	1/5/10	**1050**	841	242	1070	**49.6**	<25.0	<5.0	<0.019	<25.0
	12/1/10	**2410**	**2420**	483	2120	**82.7**	**<29.0**	<5.0	<0.020	**<13.0**
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	1.8	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	12/1/10	<5.0	2.0	<5.0	<10.0	<5.0	<5.0	11.2	<0.019	<5.0
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02	NS
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS	NS
	4/8/09	**8.1**	<5.0	<5.0	9.9	11.6	<5.0	<5.0	<0.020	NS
	1/5/10	4.1	<5.0	<5.0	2.8	3.7	<5.0	6.3	<0.020	<5.0
	12/1/10	**334**	<5.0	1.9	258	10.3	<5.0	8.0	<0.020	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**	NS
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS	NS
	4/8/09	**1190**	<50.0	15.1	447	**638**	**<50.0**	12.5	**0.34**	NS
	1/5/10	**383**	8.8	16.0	204	**331**	<10.0	5.1	**0.10**	3.2
	12/1/10	**2030**	32.7	75.2	833	**1300**	<10.0	<5.0	<0.020	**14.3**
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**59.1**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**28.2**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**36.7**	<0.020	<5.0
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.1	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02	NS
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.020	<5.0
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.9	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**	NS
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS	NS
	4/8/09	**152**	<5.0	<5.0	18.6	**163**	<5.0	<5.0	0.38	NS
	1/5/10	**775**	<5.0	<5.0	75.4	**463**	13.0	**16.1**	**0.94**	**8.9**
	12/1/10	<5.0	<5.0	<5.0	<10.0	5.9	<5.0	8.7	<0.020	<5.0
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**21.4**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**17.8**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.6	<0.020	<5.0
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	2.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	8.7	<5.0	<5.0	<0.020	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.2	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.7	<0.019	NS
	1/5/10	**5.8**	93.4	19.8	94.1	2.5	6.1	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-20	4/8/09	**3940**	**16900**	690	5260	**5060**	**127**	5.5	**3.1**	NS
	1/5/10	**8500**	**54200**	**1530**	**14400**	**12000**	**408**	10.7	**29.1**	**188**
	12/1/10	**6890**	**37300**	**1640**	**11200**	**9600**	**<1450**	7.0	**18.2**	**<650**
MW-21	4/8/09	**3620**	<250	90.0	3390	**1360**	**<250**	11.8	**0.75**	NS
	1/5/10	**5000**	54.4	298	9080	**3150**	**122**	<5.0	**0.64**	**85.3**
	12/1/10	**5830**	<250	121	7120	**1740**	**<145**	6.3	**0.19**	**<65.0**
MW-22	4/8/09	**414**	4.2	2.3	169	**45.2**	<5.0	**15.9**	<0.020	NS
	1/5/10	**6.8**	<5.0	<5.0	<10.0	<5.0	<5.0	**21.7**	0.039	<5.0
	12/1/10	**47.8**	<5.0	<5.0	8.1	<5.0	<5.0	4.9	<0.020	<5.0
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02	NS
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS	NS
	4/8/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	2.0	<5.0	<5.0	4.3	<5.0	<5.0	<5.0	<0.020	<5.0
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0

Note: All results in µg/l. Numbers in bold exceed RBSL.

A minimum of three well volumes were purged from each monitoring well not bracketing the water table prior to sample collection using an electric purge pump. Immediately after well purging was completed, groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured and recorded for each sample during well purging or at the time of

collection. Following collection in the field, the groundwater samples were submitted to the analytical laboratory and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, 1, 2 DCA, Lead, and EDB. A copy of the laboratory data and the chain-of-custody for the well sampling event is provided in Appendix B. A map with concentration levels for each well is provided as Figure 4 in Appendix A.

4.0 CONCLUSIONS

Results from the contamination delineation indicate contaminants exist at the Short Stop in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Delineation of the contaminant plume appears to be complete at this time. Benzene, Naphthalene, Lead, MTBE, and EDB are present in a number of monitoring wells at the site above RBSLs and are the prevalent chemicals of concern. Free phase petroleum product was detected in monitoring well MW-3R during this sampling event at 0.43 feet.

Based on the results of the latest sampling event, KLM recommends a series of aggressive fluid recovery events to attempt to lower contaminant levels across the site and remove the free phase product detected in MW-3R. Following the AFVR events, a comprehensive sampling event should be conducted in order to track the effectiveness of the AFVR events. Periodic sampling of the site should continue in order to ensure the contaminant plume remains defined.

5.0 REFERENCES

KLM Environmental, LLC, *AFVR Report*, August, 2010.

KLM Environmental, LLC, *Monitoring Report*, January, 2010.

KLM Environmental, LLC, *Assessment Report*, April, 2009.

KLM Environmental, LLC, *Tier II Addendum*, December, 2008.

KLM Environmental, LLC, *Tier II Assessment*, August, 2008.

KLM Environmental, LLC, *Gauging Event*, November, 2007.

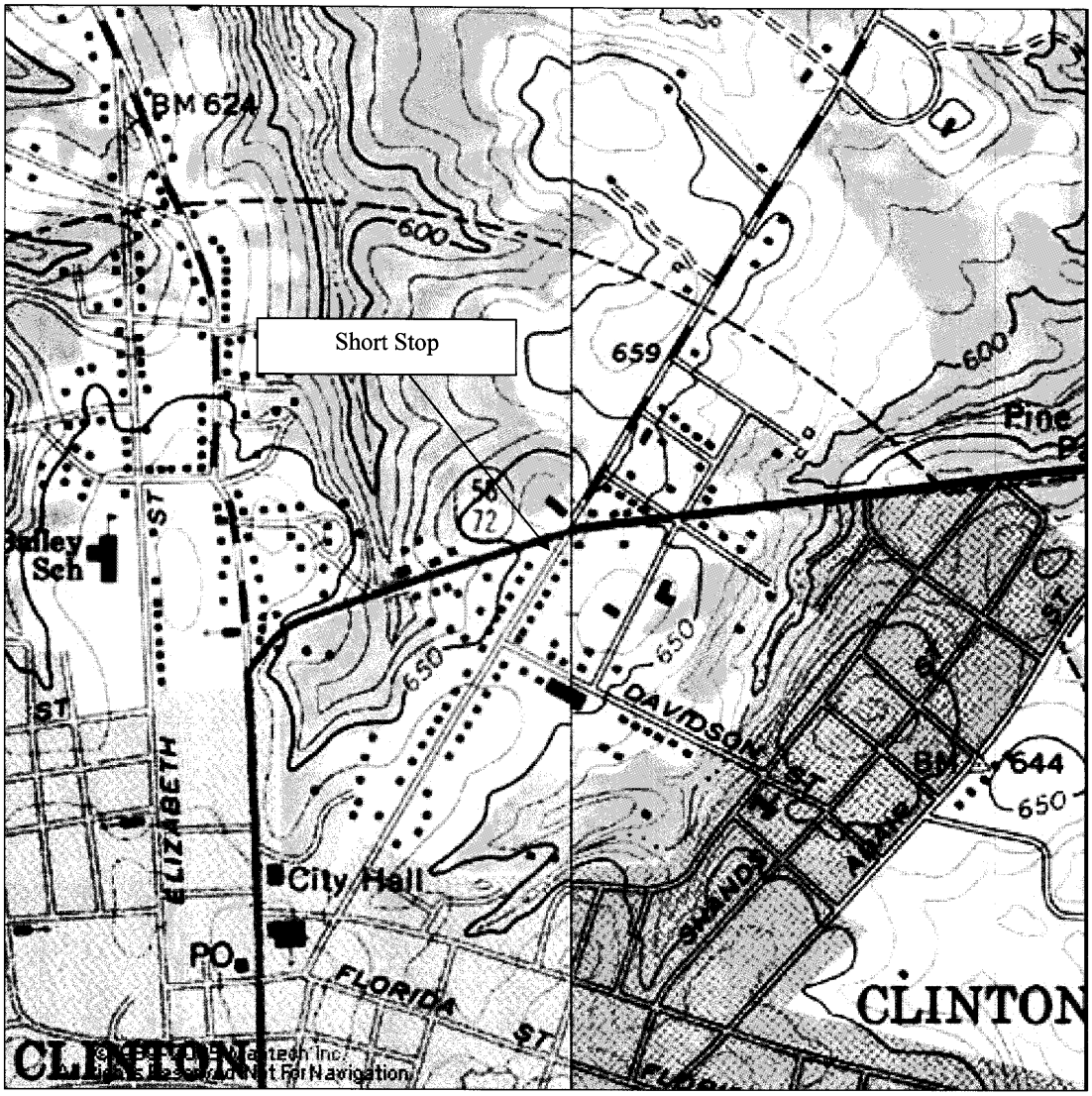
South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *Underground Storage Tank Registry Website www.scdhec.gov/ust/scustr/index.asp*

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *Tier II Assessment*, May 15, 2000.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Risk-Based Corrective Action for Petroleum Releases*, May 15, 2001.

APPENDIX A

Figures



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

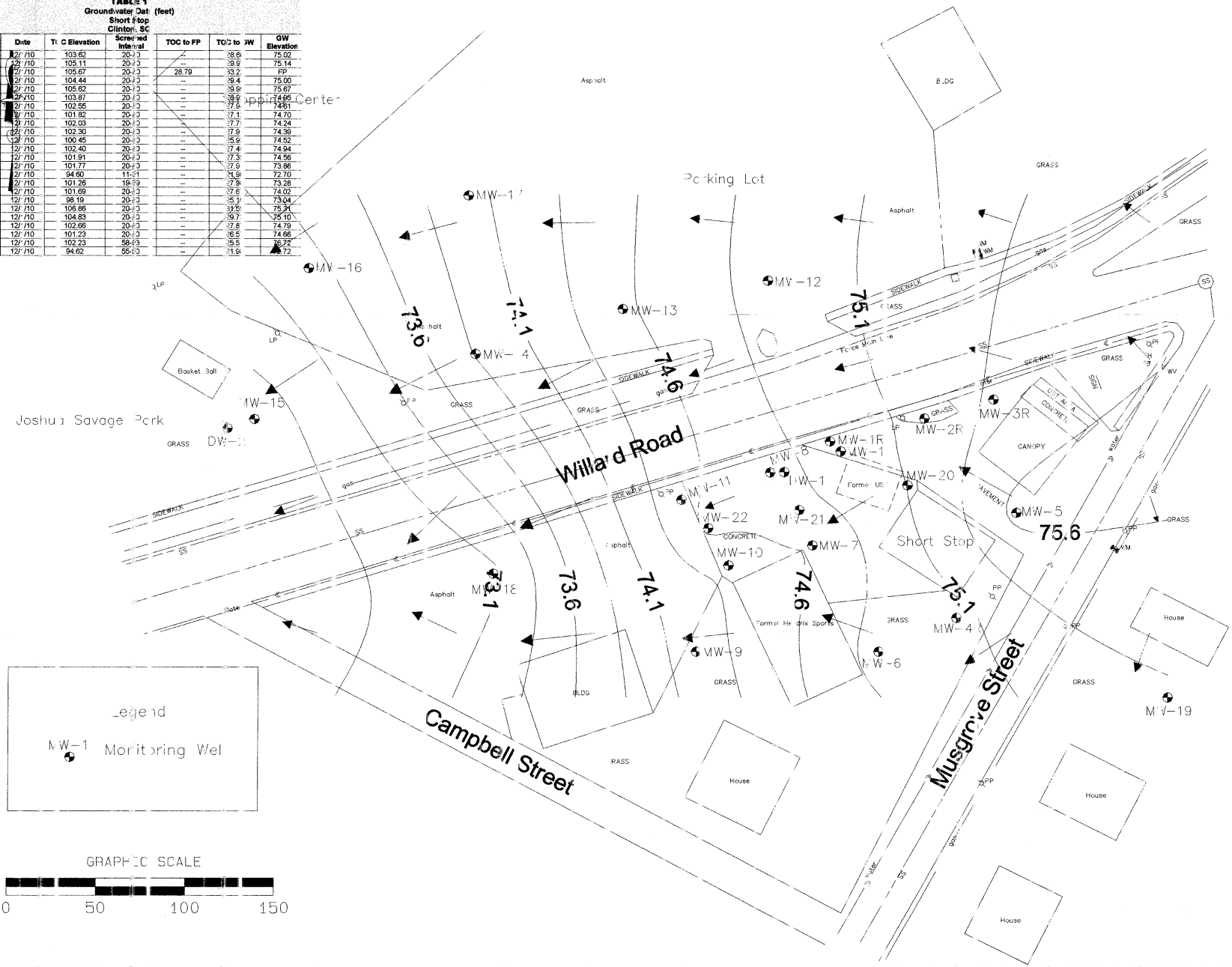
Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	12/ /10	103.62	20-40	--	28.60	75.02
MW-2R	12/ /10	105.11	20-40	--	29.97	75.14
MW-3R	12/ /10	105.67	20-40	28.79	33.20	FP
MW-4R	12/ /10	104.44	20-40	--	29.44	75.00
MW-5	12/ /10	105.62	20-40	--	29.96	75.67
MW-6	12/ /10	103.87	20-40	--	28.92	74.95
MW-7	12/ /10	102.55	20-40	--	27.94	74.61
MW-8	12/ /10	101.82	20-40	--	27.12	74.70
MW-9	12/ /10	102.03	20-40	--	27.79	74.24
MW-10	12/ /10	102.30	20-40	--	27.91	74.39
MW-11	12/ /10	100.45	20-40	--	25.93	74.52
MW-12	12/ /10	102.40	20-40	--	27.46	74.94
MW-13	12/ /10	101.91	20-40	--	27.35	74.56
MW-14	12/ /10	101.77	20-40	--	27.91	73.86
MW-15	12/ /10	94.60	11-31	--	21.90	72.70
MW-16	12/ /10	101.26	19-39	--	27.98	73.28
MW-17	12/ /10	101.69	20-40	--	27.67	74.02
MW-18	12/ /10	98.19	20-40	--	25.15	73.04
MW-19	12/ /10	106.86	20-40	--	32.55	75.31
MW-20	12/ /10	104.83	20-40	--	29.73	75.10
MW-21	12/ /10	102.66	20-40	--	27.87	74.79
MW-22	12/ /10	101.23	20-40	--	26.57	74.66
DW-1*	12/ /10	102.23	58-63	--	26.51	75.72
DW-2*	12/ /10	94.62	55-60	--	21.90	72.72



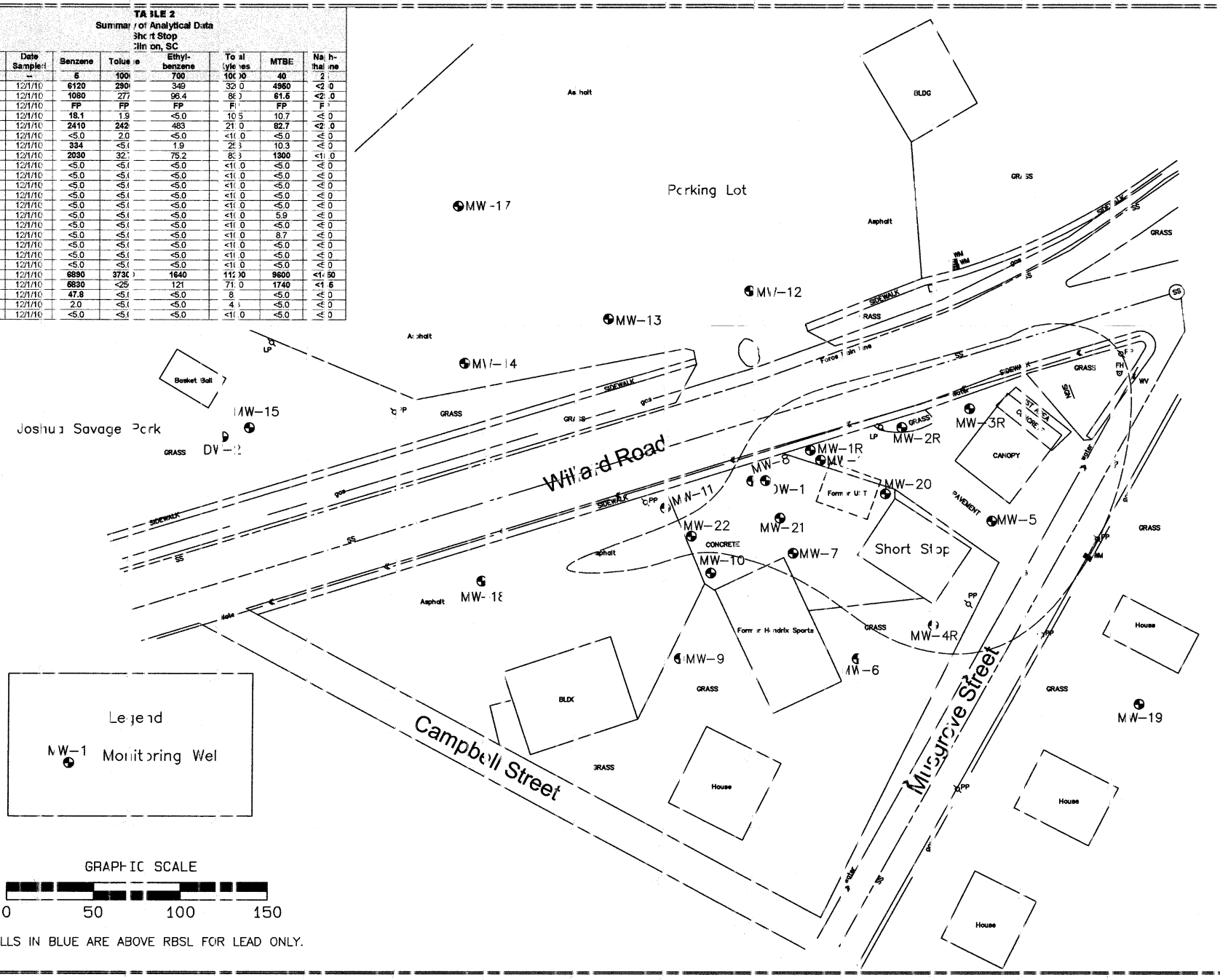
KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene
RBSL	--	6	1000	700	10000	40	21
MW-1R	12/1/10	6120	2900	349	3200	4950	<2.0
MW-2R	12/1/10	1080	277	96.4	880	61.6	<2.0
MW-3R	12/1/10	FP	FP	FP	FP	FP	FP
MW-4R	12/1/10	18.1	1.9	<5.0	105	10.7	<5.0
MW-5	12/1/10	2410	242	483	2100	82.7	<2.0
MW-6	12/1/10	<5.0	2.0	<5.0	<10.0	<5.0	<5.0
MW-7	12/1/10	334	<5.0	1.9	253	10.3	<5.0
MW-8	12/1/10	2030	327	75.2	883	1300	<10.0
MW-9	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-10	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-11	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-12	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-13	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-14	12/1/10	<5.0	<5.0	<5.0	<10.0	5.9	<5.0
MW-15	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-16	12/1/10	<5.0	<5.0	<5.0	<10.0	8.7	<5.0
MW-17	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-18	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-19	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-20	12/1/10	6890	3730	1640	11200	9600	<1.50
MW-21	12/1/10	6830	<25.0	121	7100	1740	<1.6
MW-22	12/1/10	47.8	<5.0	<5.0	80	<5.0	<5.0
DW-1	12/1/10	2.0	<5.0	<5.0	43	<5.0	<5.0
DW-2	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0



Legend

MW-1 Monitoring Well

GRAPHIC SCALE

0 50 100 150

WELLS IN BLUE ARE ABOVE RBSL FOR LEAD ONLY.

KLM Environmental, LLC

Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 4
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

APPENDIX B

Laboratory Data

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

December 15, 2010

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9283293

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Asheville, NC 28804
(828)254-7176

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

CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9283293

Charlotte Certification IDs
9800 Kincey 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

Asheville Certification IDs
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Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
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 #: 99030002
South Carolina Certification #: 99030001
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Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9283293

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9283293001	MW-1R	Water	12/01/10 10:30	12/03/10 10:00
9283293002	MW-2R	Water	12/01/10 10:40	12/03/10 10:00
9283293003	MW-4R	Water	12/01/10 11:00	12/03/10 10:00
9283293004	MW-5	Water	12/01/10 11:10	12/03/10 10:00
9283293005	MW-6	Water	12/01/10 11:20	12/03/10 10:00
9283293006	MW-7	Water	12/01/10 11:30	12/03/10 10:00
9283293007	MW-8	Water	12/01/10 11:40	12/03/10 10:00
9283293008	MW-9	Water	12/01/10 11:50	12/03/10 10:00
9283293009	MW-10	Water	12/01/10 12:00	12/03/10 10:00
9283293010	MW-11	Water	12/01/10 12:10	12/03/10 10:00
9283293011	MW-12	Water	12/01/10 12:20	12/03/10 10:00
9283293012	MW-13	Water	12/01/10 12:30	12/03/10 10:00
9283293013	MW-14	Water	12/01/10 12:40	12/03/10 10:00
9283293014	MW-15	Water	12/01/10 12:50	12/03/10 10:00
9283293015	MW-16	Water	12/01/10 13:00	12/03/10 10:00
9283293016	MW-17	Water	12/01/10 13:10	12/03/10 10:00
9283293017	MW-18	Water	12/01/10 13:20	12/03/10 10:00
9283293018	MW-19	Water	12/01/10 13:30	12/03/10 10:00
9283293019	MW-20	Water	12/01/10 13:40	12/03/10 10:00
9283293020	MW-21	Water	12/01/10 13:50	12/03/10 10:00
9283293021	MW-22	Water	12/01/10 14:00	12/03/10 10:00
9283293022	DW-1	Water	12/01/10 14:20	12/03/10 10:00
9283293023	DW-2	Water	12/01/10 14:40	12/03/10 10:00

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Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9283293

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9283293001	MW-1R	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293002	MW-2R	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293003	MW-4R	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293004	MW-5	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293005	MW-6	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293006	MW-7	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293007	MW-8	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293008	MW-9	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293009	MW-10	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293010	MW-11	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293011	MW-12	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293012	MW-13	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293013	MW-14	EPA 8011	RES	2

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9283293

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293014	MW-15	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293015	MW-16	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293016	MW-17	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293017	MW-18	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293018	MW-19	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293019	MW-20	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293020	MW-21	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293021	MW-22	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293022	DW-1	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13
9283293023	DW-2	EPA 8011	RES	2
		EPA 6010	SHB	1
		EPA 8260	KJM	13

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-1R **Lab ID: 9283293001** Collected: 12/01/10 10:30 Received: 12/03/10 10:00 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)	**13.8**	ug/L	0.39	0.39	20	12/10/10 16:02	12/11/10 14:00	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		20	12/10/10 16:02	12/11/10 14:00	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:17	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**6120**	ug/L	500	120	100		12/08/10 07:57	71-43-2	
1,2-Dichloroethane	ND	ug/L	500	130	100		12/08/10 07:57	107-06-2	
Ethylbenzene	**349J**	ug/L	500	110	100		12/08/10 07:57	100-41-4	
Methyl-tert-butyl ether	**4950**	ug/L	500	200	100		12/08/10 07:57	1634-04-4	
Naphthalene	ND	ug/L	500	290	100		12/08/10 07:57	91-20-3	
Toluene	**2900**	ug/L	500	180	100		12/08/10 07:57	108-88-3	
Xylene (Total)	**3260**	ug/L	1000	270	100		12/08/10 07:57	1330-20-7	
m&p-Xylene	**2880**	ug/L	1000	270	100		12/08/10 07:57	179601-23-1	
o-Xylene	**383J**	ug/L	500	170	100		12/08/10 07:57	95-47-6	
4-Bromofluorobenzene (S)	89	%	70-130		100		12/08/10 07:57	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		100		12/08/10 07:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		100		12/08/10 07:57	17060-07-0	
Toluene-d8 (S)	96	%	70-130		100		12/08/10 07:57	2037-26-5	

Sample: MW-2R **Lab ID: 9283293002** Collected: 12/01/10 10:40 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/10 16:02	12/10/10 21:45	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140		1	12/10/10 16:02	12/10/10 21:45	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:25	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1080**	ug/L	50.0	12.0	10		12/08/10 07:18	71-43-2	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		12/08/10 07:18	107-06-2	
Ethylbenzene	**96.4**	ug/L	50.0	11.0	10		12/08/10 07:18	100-41-4	
Methyl-tert-butyl ether	**61.5**	ug/L	50.0	20.0	10		12/08/10 07:18	1634-04-4	
Naphthalene	ND	ug/L	50.0	29.0	10		12/08/10 07:18	91-20-3	
Toluene	**277**	ug/L	50.0	18.0	10		12/08/10 07:18	108-88-3	
Xylene (Total)	**880**	ug/L	100	27.0	10		12/08/10 07:18	1330-20-7	
m&p-Xylene	**768**	ug/L	100	27.0	10		12/08/10 07:18	179601-23-1	
o-Xylene	**112**	ug/L	50.0	17.0	10		12/08/10 07:18	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		10		12/08/10 07:18	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		10		12/08/10 07:18	1868-53-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-2R **Lab ID: 9283293002** Collected: 12/01/10 10:40 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane-d4 (S)	101	%	70-130		10		12/08/10 07:18	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		12/08/10 07:18	2037-26-5	

Sample: MW-4R **Lab ID: 9283293003** Collected: 12/01/10 11:00 Received: 12/03/10 10:00 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	12/10/10 16:03	12/10/10 22:21	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/10/10 16:03	12/10/10 22:21	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.7J**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:31	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**18.1**	ug/L	5.0	1.2	1		12/08/10 05:38	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 05:38	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 05:38	100-41-4	
Methyl-tert-butyl ether	**10.7**	ug/L	5.0	2.0	1		12/08/10 05:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 05:38	91-20-3	
Toluene	**1.9J**	ug/L	5.0	1.8	1		12/08/10 05:38	108-88-3	
Xylene (Total)	**10.5**	ug/L	10.0	2.7	1		12/08/10 05:38	1330-20-7	
m&p-Xylene	**8.2J**	ug/L	10.0	2.7	1		12/08/10 05:38	179601-23-1	
o-Xylene	**2.3J**	ug/L	5.0	1.7	1		12/08/10 05:38	95-47-6	
4-Bromofluorobenzene (S)	106	%	70-130		1		12/08/10 05:38	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/08/10 05:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/08/10 05:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/08/10 05:38	2037-26-5	

Sample: MW-5 **Lab ID: 9283293004** Collected: 12/01/10 11:10 Received: 12/03/10 10:00 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	12/10/10 16:03	12/10/10 22:39	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/10/10 16:03	12/10/10 22:39	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:35	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**2410**	ug/L	250	60.0	50		12/08/10 13:33	71-43-2	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-5 **Lab ID: 9283293004** Collected: 12/01/10 11:10 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		12/08/10 07:39	107-06-2	
Ethylbenzene	**483**	ug/L	50.0	11.0	10		12/08/10 07:39	100-41-4	
Methyl-tert-butyl ether	**82.7**	ug/L	50.0	20.0	10		12/08/10 07:39	1634-04-4	
Naphthalene	ND	ug/L	50.0	29.0	10		12/08/10 07:39	91-20-3	
Toluene	**2420**	ug/L	250	90.0	50		12/08/10 13:33	108-88-3	
Xylene (Total)	**2120**	ug/L	100	27.0	10		12/08/10 07:39	1330-20-7	
m&p-Xylene	**1820**	ug/L	100	27.0	10		12/08/10 07:39	179601-23-1	
o-Xylene	**297**	ug/L	50.0	17.0	10		12/08/10 07:39	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130		10		12/08/10 07:39	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		10		12/08/10 07:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	70-130		10		12/08/10 07:39	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		12/08/10 07:39	2037-26-5	

Sample: MW-6 **Lab ID: 9283293005** Collected: 12/01/10 11:20 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/10 16:03	12/10/10 22:57	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140		1	12/10/10 16:03	12/10/10 22:57	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**11.2**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:38	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 02:36	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 02:36	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 02:36	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 02:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 02:36	91-20-3	
Toluene	**2.0J**	ug/L	5.0	1.8	1		12/08/10 02:36	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 02:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 02:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 02:36	95-47-6	
4-Bromofluorobenzene (S)	105	%	70-130		1		12/08/10 02:36	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		12/08/10 02:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/08/10 02:36	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/10 02:36	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-7 **Lab ID: 9283293006** Collected: 12/01/10 11:30 Received: 12/03/10 10:00 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	12/10/10 16:03	12/10/10 23:15	106-93-4	
1-Chloro-2-bromopropane (S)	112	%	60-140		1	12/10/10 16:03	12/10/10 23:15	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.0**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:42	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**334**	ug/L	50.0	12.0	10		12/10/10 15:26	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 02:54	107-06-2	
Ethylbenzene	**1.9J**	ug/L	5.0	1.1	1		12/08/10 02:54	100-41-4	
Methyl-tert-butyl ether	**10.3**	ug/L	5.0	2.0	1		12/08/10 02:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 02:54	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 02:54	108-88-3	
Xylene (Total)	**258**	ug/L	10.0	2.7	1		12/08/10 02:54	1330-20-7	
m&p-Xylene	**236**	ug/L	10.0	2.7	1		12/08/10 02:54	179601-23-1	
o-Xylene	**22.0**	ug/L	5.0	1.7	1		12/08/10 02:54	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		12/08/10 02:54	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/08/10 02:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/08/10 02:54	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/08/10 02:54	2037-26-5	

Sample: MW-8 **Lab ID: 9283293007** Collected: 12/01/10 11:40 Received: 12/03/10 10:00 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	12/10/10 16:03	12/10/10 23:33	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	12/10/10 16:03	12/10/10 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	12/08/10 11:15	12/09/10 22:56	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**2030**	ug/L	10.0	2.4	2		12/08/10 06:36	71-43-2	1g,E
1,2-Dichloroethane	**14.3**	ug/L	10.0	2.6	2		12/08/10 06:36	107-06-2	
Ethylbenzene	**75.2**	ug/L	10.0	2.2	2		12/08/10 06:36	100-41-4	
Methyl-tert-butyl ether	**1300**	ug/L	10.0	4.0	2		12/08/10 06:36	1634-04-4	E
Naphthalene	ND	ug/L	10.0	5.8	2		12/08/10 06:36	91-20-3	
Toluene	**32.7**	ug/L	10.0	3.6	2		12/08/10 06:36	108-88-3	
Xylene (Total)	**833**	ug/L	20.0	5.4	2		12/08/10 06:36	1330-20-7	
m&p-Xylene	**665**	ug/L	20.0	5.4	2		12/08/10 06:36	179601-23-1	
o-Xylene	**168**	ug/L	10.0	3.4	2		12/08/10 06:36	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130		2		12/08/10 06:36	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		2		12/08/10 06:36	1868-53-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-8 **Lab ID: 9283293007** Collected: 12/01/10 11:40 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane-d4 (S)	101	%	70-130		2		12/08/10 06:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130		2		12/08/10 06:36	2037-26-5	

Sample: MW-9 **Lab ID: 9283293008** Collected: 12/01/10 11:50 Received: 12/03/10 10:00 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	12/10/10 16:03	12/10/10 23:51	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/10/10 16:03	12/10/10 23:51	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**36.7**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 22:59	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 03:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 03:13	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 03:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 03:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 03:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 03:13	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 03:13	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 03:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 03:13	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		12/08/10 03:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/08/10 03:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/08/10 03:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/08/10 03:13	2037-26-5	

Sample: MW-10 **Lab ID: 9283293009** Collected: 12/01/10 12:00 Received: 12/03/10 10:00 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	12/10/10 16:04	12/11/10 00:09	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	12/10/10 16:04	12/11/10 00:09	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:03	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 03:31	71-43-2	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-10 **Lab ID: 9283293009** Collected: 12/01/10 12:00 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 03:31	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 03:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 03:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 03:31	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 03:31	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 03:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 03:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 03:31	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/10 03:31	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		12/08/10 03:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/08/10 03:31	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/08/10 03:31	2037-26-5	

Sample: MW-11 **Lab ID: 9283293010** Collected: 12/01/10 12:10 Received: 12/03/10 10:00 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	12/10/10 16:04	12/11/10 00:27	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/10/10 16:04	12/11/10 00:27	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.2**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:06	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 03:49	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 03:49	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 03:49	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 03:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 03:49	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 03:49	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 03:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 03:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 03:49	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		12/08/10 03:49	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/08/10 03:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/08/10 03:49	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/08/10 03:49	2037-26-5	

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9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-12 **Lab ID: 9283293011** Collected: 12/01/10 12:20 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/10 16:04	12/11/10 00:45	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	12/10/10 16:04	12/11/10 00:45	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:10	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 04:07	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 04:07	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 04:07	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 04:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 04:07	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 04:07	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 04:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 04:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 04:07	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		12/08/10 04:07	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/08/10 04:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/10 04:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/08/10 04:07	2037-26-5	

Sample: MW-13 **Lab ID: 9283293012** Collected: 12/01/10 12:30 Received: 12/03/10 10:00 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	12/10/10 16:04	12/11/10 01:03	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	12/10/10 16:04	12/11/10 01:03	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.1J**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:13	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 04:25	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 04:25	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 04:25	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 04:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 04:25	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 04:25	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 04:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 04:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 04:25	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/10 04:25	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/08/10 04:25	1868-53-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-13 **Lab ID: 9283293012** Collected: 12/01/10 12:30 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/08/10 04:25	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/08/10 04:25	2037-26-5	

Sample: MW-14 **Lab ID: 9283293013** Collected: 12/01/10 12:40 Received: 12/03/10 10:00 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	12/10/10 16:04	12/11/10 01:21	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	12/10/10 16:04	12/11/10 01:21	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.7**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:17	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 11:53	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 11:53	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 11:53	100-41-4	
Methyl-tert-butyl ether	**5.9**	ug/L	5.0	2.0	1		12/08/10 11:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 11:53	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 11:53	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 11:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 11:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 11:53	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/10 11:53	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		12/08/10 11:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/08/10 11:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/08/10 11:53	2037-26-5	

Sample: MW-15 **Lab ID: 9283293014** Collected: 12/01/10 12:50 Received: 12/03/10 10:00 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	12/10/10 16:06	12/11/10 02:50	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/10/10 16:06	12/11/10 02:50	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.6**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:21	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 05:56	71-43-2	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-15 **Lab ID: 9283293014** Collected: 12/01/10 12:50 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 05:56	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 05:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 05:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 05:56	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 05:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 05:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 05:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 05:56	95-47-6	
4-Bromofluorobenzene (S)	90	%	70-130		1		12/08/10 05:56	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/08/10 05:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/08/10 05:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/08/10 05:56	2037-26-5	

Sample: MW-16 **Lab ID: 9283293015** Collected: 12/01/10 13:00 Received: 12/03/10 10:00 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	12/10/10 16:06	12/11/10 03:08	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	12/10/10 16:06	12/11/10 03:08	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:25	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 04:44	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 04:44	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 04:44	100-41-4	
Methyl-tert-butyl ether	**8.7**	ug/L	5.0	2.0	1		12/08/10 04:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 04:44	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 04:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 04:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 04:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 04:44	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/10 04:44	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		12/08/10 04:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/08/10 04:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/08/10 04:44	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-17 **Lab ID: 9283293016** Collected: 12/01/10 13:10 Received: 12/03/10 10:00 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	12/10/10 16:06	12/11/10 03:26	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/10/10 16:06	12/11/10 03:26	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:29	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 05:02	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 05:02	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 05:02	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 05:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 05:02	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 05:02	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 05:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 05:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 05:02	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/08/10 05:02	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		12/08/10 05:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/08/10 05:02	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		12/08/10 05:02	2037-26-5	

Sample: MW-18 **Lab ID: 9283293017** Collected: 12/01/10 13:20 Received: 12/03/10 10:00 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	12/10/10 16:06	12/11/10 04:20	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	12/10/10 16:06	12/11/10 04:20	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:42	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 05:20	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 05:20	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 05:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 05:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 05:20	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 05:20	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 05:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 05:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 05:20	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/08/10 05:20	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/08/10 05:20	1868-53-7	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-18 **Lab ID: 9283293017** Collected: 12/01/10 13:20 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/08/10 05:20	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/10 05:20	2037-26-5	

Sample: MW-19 **Lab ID: 9283293018** Collected: 12/01/10 13:30 Received: 12/03/10 10:00 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	12/10/10 16:06	12/11/10 04:56	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/10/10 16:06	12/11/10 04:56	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:46	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 06:15	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 06:15	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 06:15	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 06:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 06:15	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 06:15	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 06:15	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 06:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 06:15	95-47-6	
4-Bromofluorobenzene (S)	106	%	70-130		1		12/08/10 06:15	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/08/10 06:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/08/10 06:15	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/10 06:15	2037-26-5	

Sample: MW-20 **Lab ID: 9283293019** Collected: 12/01/10 13:40 Received: 12/03/10 10:00 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)	**18.2**	ug/L	0.49	0.49	25	12/10/10 16:07	12/11/10 14:18	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		25	12/10/10 16:07	12/11/10 14:18	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**7.0**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:49	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**6890**	ug/L	2500	600	500		12/10/10 16:02	71-43-2	

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-20 **Lab ID: 9283293019** Collected: 12/01/10 13:40 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	2500	650	500		12/10/10 16:02	107-06-2	
Ethylbenzene	**1640J**	ug/L	2500	550	500		12/10/10 16:02	100-41-4	
Methyl-tert-butyl ether	**9600**	ug/L	2500	1000	500		12/10/10 16:02	1634-04-4	
Naphthalene	ND	ug/L	2500	1450	500		12/10/10 16:02	91-20-3	
Toluene	**37300**	ug/L	2500	900	500		12/10/10 16:02	108-88-3	
Xylene (Total)	**11200**	ug/L	5000	1350	500		12/10/10 16:02	1330-20-7	
m&p-Xylene	**7460**	ug/L	5000	1350	500		12/10/10 16:02	179601-23-1	
o-Xylene	**3780**	ug/L	2500	850	500		12/10/10 16:02	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130		500		12/10/10 16:02	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		500		12/10/10 16:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		500		12/10/10 16:02	17060-07-0	
Toluene-d8 (S)	84	%	70-130		500		12/10/10 16:02	2037-26-5	

Sample: MW-21 **Lab ID: 9283293020** Collected: 12/01/10 13:50 Received: 12/03/10 10:00 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)	**0.19**	ug/L	0.020	0.020	1	12/10/10 16:07	12/11/10 05:31	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	12/10/10 16:07	12/11/10 05:31	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.3**	ug/L	5.0	4.0	1	12/08/10 11:15	12/09/10 23:53	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**5830**	ug/L	250	60.0	50		12/08/10 13:55	71-43-2	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		12/08/10 13:55	107-06-2	
Ethylbenzene	**121J**	ug/L	250	55.0	50		12/08/10 13:55	100-41-4	
Methyl-tert-butyl ether	**1740**	ug/L	250	100	50		12/08/10 13:55	1634-04-4	
Naphthalene	ND	ug/L	250	145	50		12/08/10 13:55	91-20-3	
Toluene	ND	ug/L	250	90.0	50		12/08/10 13:55	108-88-3	
Xylene (Total)	**7120**	ug/L	500	135	50		12/08/10 13:55	1330-20-7	
m&p-Xylene	**6230**	ug/L	500	135	50		12/08/10 13:55	179601-23-1	
o-Xylene	**887**	ug/L	250	85.0	50		12/08/10 13:55	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		50		12/08/10 13:55	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		50		12/08/10 13:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	70-130		50		12/08/10 13:55	17060-07-0	
Toluene-d8 (S)	89	%	70-130		50		12/08/10 13:55	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: MW-22 **Lab ID: 9283293021** Collected: 12/01/10 14:00 Received: 12/03/10 10:00 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	12/10/10 16:07	12/11/10 05:49	106-93-4	
1-Chloro-2-bromopropane (S)	108	%	60-140		1	12/10/10 16:07	12/11/10 05:49	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.9J**	ug/L	5.0	4.0	1	12/09/10 11:00	12/10/10 18:21	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**47.8**	ug/L	5.0	1.2	1		12/08/10 14:49	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 14:49	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 14:49	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 14:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 14:49	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 14:49	108-88-3	
Xylene (Total)	**8.1J**	ug/L	10.0	2.7	1		12/08/10 14:49	1330-20-7	
m&p-Xylene	**6.2J**	ug/L	10.0	2.7	1		12/08/10 14:49	179601-23-1	
o-Xylene	**1.9J**	ug/L	5.0	1.7	1		12/08/10 14:49	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/10 14:49	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/08/10 14:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/08/10 14:49	17060-07-0	
Toluene-d8 (S)	93	%	70-130		1		12/08/10 14:49	2037-26-5	

Sample: DW-1 **Lab ID: 9283293022** Collected: 12/01/10 14:20 Received: 12/03/10 10:00 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	12/10/10 16:07	12/11/10 06:07	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	12/10/10 16:07	12/11/10 06:07	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/09/10 11:00	12/10/10 18:25	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**2.0J**	ug/L	5.0	1.2	1		12/08/10 14:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 14:13	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 14:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 14:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 14:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 14:13	108-88-3	
Xylene (Total)	**4.3J**	ug/L	10.0	2.7	1		12/08/10 14:13	1330-20-7	
m&p-Xylene	**3.8J**	ug/L	10.0	2.7	1		12/08/10 14:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 14:13	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130		1		12/08/10 14:13	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		12/08/10 14:13	1868-53-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9283293

Sample: DW-1 **Lab ID: 9283293022** Collected: 12/01/10 14:20 Received: 12/03/10 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/08/10 14:13	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/10 14:13	2037-26-5	

Sample: DW-2 **Lab ID: 9283293023** Collected: 12/01/10 14:40 Received: 12/03/10 10:00 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	12/10/10 16:07	12/11/10 06:25	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/10/10 16:07	12/11/10 06:25	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/09/10 11:00	12/10/10 18:28	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/08/10 14:31	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/08/10 14:31	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/08/10 14:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/08/10 14:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/08/10 14:31	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/08/10 14:31	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/08/10 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/08/10 14:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/08/10 14:31	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/08/10 14:31	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/08/10 14:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/10 14:31	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/08/10 14:31	2037-26-5	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: OEXT/12132
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9283293001, 9283293002, 9283293003, 9283293004, 9283293005, 9283293006, 9283293007, 9283293008, 9283293009, 9283293010, 9283293011, 9283293012, 9283293013

METHOD BLANK: 539686
Matrix: Water
Associated Lab Samples: 9283293001, 9283293002, 9283293003, 9283293004, 9283293005, 9283293006, 9283293007, 9283293008, 9283293009, 9283293010, 9283293011, 9283293012, 9283293013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/10/10 17:51	
1-Chloro-2-bromopropane (S)	%	104	60-140	12/10/10 17:51	

LABORATORY CONTROL SAMPLE & LCSD: 539687 539688

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	0.30	0.29	106	102	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				103	103	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 539689 539690

Parameter	Units	9283293001 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	13.8	.28	.28	12.5	12.8	-472	-378	60-140	2	20	P6
1-Chloro-2-bromopropane (S)	%						106	112	60-140			

SAMPLE DUPLICATE: 539691

Parameter	Units	9283293002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	107	103	5		

REPORT OF LABORATORY ANALYSIS

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(828)254-7176

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: OEXT/12133 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9283293014, 9283293015, 9283293016, 9283293017, 9283293018, 9283293019, 9283293020, 9283293021, 9283293022, 9283293023

METHOD BLANK: 539692 Matrix: Water
Associated Lab Samples: 9283293014, 9283293015, 9283293016, 9283293017, 9283293018, 9283293019, 9283293020, 9283293021, 9283293022, 9283293023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/11/10 01:57	
1-Chloro-2-bromopropane (S)	%	103	60-140	12/11/10 01:57	

LABORATORY CONTROL SAMPLE & LCSD: 539693 539694

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	0.29	104	100	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				108	105	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 539695 539696

Parameter	Units	9283293016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.29	0.29	104	104	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						103	104	60-140			

SAMPLE DUPLICATE: 539697

Parameter	Units	9283293017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	104	104	2		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: MPRP/7554 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9283293001, 9283293002, 9283293003, 9283293004, 9283293005, 9283293006, 9283293007, 9283293008, 9283293009, 9283293010, 9283293011, 9283293012, 9283293013, 9283293014, 9283293015, 9283293016, 9283293017, 9283293018, 9283293019, 9283293020

METHOD BLANK: 537883 Matrix: Water
Associated Lab Samples: 9283293001, 9283293002, 9283293003, 9283293004, 9283293005, 9283293006, 9283293007, 9283293008, 9283293009, 9283293010, 9283293011, 9283293012, 9283293013, 9283293014, 9283293015, 9283293016, 9283293017, 9283293018, 9283293019, 9283293020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/09/10 22:11	

LABORATORY CONTROL SAMPLE: 537884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	477	95	80-120	

MATRIX SPIKE SAMPLE: 537885

Parameter	Units	9283293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	440	88	75-125	

SAMPLE DUPLICATE: 537886

Parameter	Units	9283293002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: MPRP/7564 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9283293021, 9283293022, 9283293023

METHOD BLANK: 538588 Matrix: Water
Associated Lab Samples: 9283293021, 9283293022, 9283293023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/10/10 18:02	

LABORATORY CONTROL SAMPLE: 538589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	487	97	80-120	

MATRIX SPIKE SAMPLE: 538590

Parameter	Units	9283205007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	490	98	75-125	

SAMPLE DUPLICATE: 538591

Parameter	Units	9283294001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	18.3	18.5	1	20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: MSV/13357 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 9283293001, 9283293002, 9283293003, 9283293004, 9283293005, 9283293006, 9283293007, 9283293008, 9283293009, 9283293010, 9283293011, 9283293012, 9283293014, 9283293015, 9283293016, 9283293017, 9283293018

METHOD BLANK: 537544 Matrix: Water
Associated Lab Samples: 9283293001, 9283293002, 9283293003, 9283293004, 9283293005, 9283293006, 9283293007, 9283293008, 9283293009, 9283293010, 9283293011, 9283293012, 9283293014, 9283293015, 9283293016, 9283293017, 9283293018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/07/10 23:38	
Benzene	ug/L	ND	5.0	12/07/10 23:38	
Ethylbenzene	ug/L	ND	5.0	12/07/10 23:38	
m&p-Xylene	ug/L	ND	10.0	12/07/10 23:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/07/10 23:38	
Naphthalene	ug/L	ND	5.0	12/07/10 23:38	
o-Xylene	ug/L	ND	5.0	12/07/10 23:38	
Toluene	ug/L	ND	5.0	12/07/10 23:38	
Xylene (Total)	ug/L	ND	10.0	12/07/10 23:38	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/07/10 23:38	
4-Bromofluorobenzene (S)	%	97	70-130	12/07/10 23:38	
Dibromofluoromethane (S)	%	101	70-130	12/07/10 23:38	
Toluene-d8 (S)	%	98	70-130	12/07/10 23:38	

LABORATORY CONTROL SAMPLE: 537545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
Benzene	ug/L	50	42.8	86	70-130	
Ethylbenzene	ug/L	50	42.5	85	70-130	
m&p-Xylene	ug/L	100	85.0	85	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Naphthalene	ug/L	50	50.7	101	70-130	
o-Xylene	ug/L	50	42.4	85	70-130	
Toluene	ug/L	50	45.6	91	70-130	
Xylene (Total)	ug/L	150	127	85	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			85	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 537546 537547

Parameter	Units	9283293006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	53.9	46.0	108	92	70-130	16	30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 537546 537547

Parameter	Units	9283293006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	334	50	50	465	381	262	93	70-130	20	30	E,P6
Ethylbenzene	ug/L	1.9J	50	50	55.4	39.8	107	76	70-130	33	30	R1
m&p-Xylene	ug/L	236	100	100	358	259	122	23	70-130	32	30	P6,R1
Methyl-tert-butyl ether	ug/L	10.3	50	50	66.0	58.5	111	96	70-130	12	30	
Naphthalene	ug/L	ND	50	50	56.2	47.1	107	89	70-130	18	30	
o-Xylene	ug/L	22.0	50	50	76.5	55.1	109	66	70-130	32	30	M0,R1
Toluene	ug/L	ND	50	50	55.1	43.8	108	86	70-130	23	30	
1,2-Dichloroethane-d4 (S)	%						113	122	70-130			
4-Bromofluorobenzene (S)	%						105	99	70-130			
Dibromofluoromethane (S)	%						105	100	70-130			
Toluene-d8 (S)	%						101	99	70-130			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: MSV/13365 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 9283293013, 9283293020, 9283293021, 9283293022, 9283293023

METHOD BLANK: 537981 Matrix: Water
Associated Lab Samples: 9283293013, 9283293020, 9283293021, 9283293022, 9283293023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/08/10 11:35	
Benzene	ug/L	ND	5.0	12/08/10 11:35	
Ethylbenzene	ug/L	ND	5.0	12/08/10 11:35	
m&p-Xylene	ug/L	ND	10.0	12/08/10 11:35	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/08/10 11:35	
Naphthalene	ug/L	ND	5.0	12/08/10 11:35	
o-Xylene	ug/L	ND	5.0	12/08/10 11:35	
Toluene	ug/L	ND	5.0	12/08/10 11:35	
Xylene (Total)	ug/L	ND	10.0	12/08/10 11:35	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/08/10 11:35	
4-Bromofluorobenzene (S)	%	95	70-130	12/08/10 11:35	
Dibromofluoromethane (S)	%	101	70-130	12/08/10 11:35	
Toluene-d8 (S)	%	98	70-130	12/08/10 11:35	

LABORATORY CONTROL SAMPLE: 537982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	41.1	82	70-130	
Benzene	ug/L	50	42.5	85	70-130	
Ethylbenzene	ug/L	50	39.5	79	70-130	
m&p-Xylene	ug/L	100	82.9	83	70-130	
Methyl-tert-butyl ether	ug/L	50	44.1	88	70-130	
Naphthalene	ug/L	50	44.4	89	70-130	
o-Xylene	ug/L	50	41.2	82	70-130	
Toluene	ug/L	50	45.6	91	70-130	
Xylene (Total)	ug/L	150	124	83	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 537983 537984

Parameter	Units	9283293023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	49.8	35.6	100	71	70-130	33	30	R1
Benzene	ug/L	ND	50	50	53.4	37.4	107	75	70-130	35	30	R1
Ethylbenzene	ug/L	ND	50	50	46.1	33.3	92	67	70-130	32	30	M0,R1
m&p-Xylene	ug/L	ND	100	100	97.2	67.3	96	66	70-130	36	30	M0,R1
Methyl-tert-butyl ether	ug/L	ND	50	50	51.7	39.7	103	79	70-130	26	30	

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(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 537983 537984

Parameter	Units	9283293023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	50	50	48.8	40.7	98	81	70-130	18	30	
o-Xylene	ug/L	ND	50	50	46.8	32.3	93	64	70-130	37	30	M0,R1
Toluene	ug/L	ND	50	50	50.5	36.6	101	73	70-130	32	30	R1
1,2-Dichloroethane-d4 (S)	%						106	125	70-130			
4-Bromofluorobenzene (S)	%						100	99	70-130			
Dibromofluoromethane (S)	%						99	100	70-130			
Toluene-d8 (S)	%						95	101	70-130			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

QC Batch: MSV/13401
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV SC
Associated Lab Samples: 9283293019

METHOD BLANK: 539736 Matrix: Water
Associated Lab Samples: 9283293019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/10/10 14:49	
Benzene	ug/L	ND	5.0	12/10/10 14:49	
Ethylbenzene	ug/L	ND	5.0	12/10/10 14:49	
m&p-Xylene	ug/L	ND	10.0	12/10/10 14:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/10/10 14:49	
Naphthalene	ug/L	ND	5.0	12/10/10 14:49	
o-Xylene	ug/L	ND	5.0	12/10/10 14:49	
Toluene	ug/L	ND	5.0	12/10/10 14:49	
Xylene (Total)	ug/L	ND	10.0	12/10/10 14:49	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/10/10 14:49	
4-Bromofluorobenzene (S)	%	103	70-130	12/10/10 14:49	
Dibromofluoromethane (S)	%	105	70-130	12/10/10 14:49	
Toluene-d8 (S)	%	101	70-130	12/10/10 14:49	

LABORATORY CONTROL SAMPLE: 539737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.5	89	70-130	
Benzene	ug/L	50	45.6	91	70-130	
Ethylbenzene	ug/L	50	49.3	99	70-130	
m&p-Xylene	ug/L	100	95.1	95	70-130	
Methyl-tert-butyl ether	ug/L	50	38.3	77	70-130	
Naphthalene	ug/L	50	45.9	92	70-130	
o-Xylene	ug/L	50	47.1	94	70-130	
Toluene	ug/L	50	44.7	89	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 539738 539739

Parameter	Units	9283649006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	1.3U	50	50	39.8	40.6	80	81	70-130	2	30	
Benzene	ug/L	1.2U	50	50	37.1	41.5	74	83	70-130	11	30	
Ethylbenzene	ug/L	1.1U	50	50	39.1	43.7	78	87	70-130	11	30	
m&p-Xylene	ug/L	2.7U	100	100	77.9	84.2	78	84	70-130	8	30	
Methyl-tert-butyl ether	ug/L	2.0U	50	50	37.7	39.1	75	78	70-130	4	30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9283293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 539738 539739

Parameter	Units	9283649006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	2.9U	50	50	75.4	47.4	151	95	70-130	45	30	M0,R1
o-Xylene	ug/L	1.7U	50	50	38.6	43.6	77	87	70-130	12	30	
Toluene	ug/L	1.8U	50	50	39.4	54.2	79	108	70-130	32	30	R1
1,2-Dichloroethane-d4 (S)	%						111	113	70-130			
4-Bromofluorobenzene (S)	%						101	82	70-130			
Dibromofluoromethane (S)	%						113	98	70-130			
Toluene-d8 (S)	%						102	133	70-130			S0

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9283293

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.
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ANALYTE QUALIFIERS

1g	Non-homogenous sample.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 1R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.60 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1032							
Water Temp (°F)	63.8							
pH (s.u.)	5.29							
Specific Cond. (mS/cm)	.438							
Turbidity (*)	313							
Dissolved Oxygen	1.63							
Salinity	0.2							
OVA								

Sample Time: 1032

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 2R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 29.97 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1040							
Water Temp (°F)	63.3							
pH (s.u.)	5.07							
Specific Cond. (mS/cm)	.376							
Turbidity (*)	457							
Dissolved Oxygen	2.51							
Salinity	0.2							
OVA								

Sample Time: 1040

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-3R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) ~~28.79 - 33.20 ft.~~

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (*)								
Dissolved Oxygen								
Salinity								
OVA								

Sample Time: Free product No Sample

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 64R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) [redacted] 29.44 ft.
Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1100							
Water Temp (°F)	62.5							
pH (s.u.)	5.53							
Specific Cond. (mS/cm)	.385							
Turbidity (*)	800							
Dissolved Oxygen	5.06							
Salinity	0.1							
OVA								

Sample Time: 1103

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 45 ft.
Depth to GW (DWG) 29.95 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1110							
Water Temp (°F)	62.9							
pH (s.u.)	4.93							
Specific Cond. (mS/cm)	.176							
Turbidity (*)	156							
Dissolved Oxygen	6.71							
Salinity	0.1							
OVA								

Sample Time: 1115

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-~~6~~ 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) ~~28.90~~ 28.92 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1120							
Water Temp (°F)	62.7							
pH (s.u.)	5.61							
Specific Cond. (mS/cm)	289							
Turbidity (*)	800							
Dissolved Oxygen	4.02							
Salinity	0.1							
OVA								

Sample Time: 1120

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.94 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1130							
Water Temp (°F)	62.9							
pH (s.u.)	5.26							
Specific Cond. (mS/cm)	.443							
Turbidity (*)	507							
Dissolved Oxygen	3.05							
Salinity	0.2							
OVA								

Sample Time: 1130

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # **MW-** 8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 42 ft.
Depth to GW (DWG) 27.12 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1143							
Water Temp (°F)	62.8							
pH (s.u.)	4.03							
Specific Cond. (mS/cm)	.198							
Turbidity (*)	587							
Dissolved Oxygen	2.69							
Salinity	0.1							
OVA								

Sample Time: 1145

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.79 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1150							
Water Temp (°F)	61.8							
pH (s.u.)	6.85							
Specific Cond. (mS/cm)	270							
Turbidity (*)	743							
Dissolved Oxygen	3.99							
Salinity	0.1							
OVA								

Sample Time: 1150

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 37.91 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1200							
Water Temp (°F)	62.1							
pH (s.u.)	4.47							
Specific Cond. (mS/cm)	.606							
Turbidity (*)	500							
Dissolved Oxygen	4.31							
Salinity	0.3							
OVA								

Sample Time: 1200

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.93 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	–							
Time (military)	1210							
Water Temp (°F)	62.6							
pH (s.u.)	4.12							
Specific Cond. (mS/cm)	260							
Turbidity (*)	800							
Dissolved Oxygen	320							
Salinity	0.1							
OVA								

Sample Time: 1210

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.46 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1220							
Water Temp (°F)	64.7							
pH (s.u.)	4.77							
Specific Cond. (mS/cm)	.175							
Turbidity (*)	334							
Dissolved Oxygen	3.09							
Salinity	0.1							
OVA								

Sample Time: 1229

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.35 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	–							
Time (military)	1230							
Water Temp (°F)	63.8							
pH (s.u.)	4.84							
Specific Cond. (mS/cm)	0.264							
Turbidity (*)	623							
Dissolved Oxygen	3.23							
Salinity	0.1							
OVA								

Sample Time: 1230

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # **MW-** 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.91 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1240							
Water Temp (°F)	63.0							
pH (s.u.)	7.93							
Specific Cond. (mS/cm)	.341							
Turbidity (*)	652							
Dissolved Oxygen	3.65							
Salinity	0.2							
OVA								

Sample Time: 1240

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South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 31 ft.
Depth to GW (DWG) 21.90 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1250							
Water Temp (°F)	59.7							
pH (s.u.)	5.19							
Specific Cond. (mS/cm)	.395							
Turbidity (*)	0							
Dissolved Oxygen	5.02							
Salinity	02							
OVA								

Sample Time: 1250

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 39 ft.
Depth to GW (DWG) 27.98 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1300							
Water Temp (°F)	62.6							
pH (s.u.)	5.22							
Specific Cond. (mS/cm)	.374							
Turbidity (*)	330							
Dissolved Oxygen	3.96							
Salinity	.2							
OVA								

Sample Time: 1325

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.67 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1310							
Water Temp (°F)	65.1							
pH (s.u.)	6.98							
Specific Cond. (mS/cm)	208							
Turbidity (*)	306							
Dissolved Oxygen	4.31							
Salinity	0.1							
OVA								

Sample Time: 1310

serverC/admin/DHEC/fielddatasht/doc

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.15 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1320							
Water Temp (°F)	63.6							
pH (s.u.)	5.05							
Specific Cond. (mS/cm)	307							
Turbidity (*)	1019							
Dissolved Oxygen	3.44							
Salinity	0.1							
OVA								

Sample Time: 1320

serverC/admin/DHEC/fielddatasht/doc

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10.
Field Personnel J. Boots / M. Bennett.
General Weather Condition Cloudy.
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 31.55 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1330							
Water Temp (°F)	61.9							
pH (s.u.)	5.57							
Specific Cond. (mS/cm)	.223							
Turbidity (*)	.657							
Dissolved Oxygen	6.12							
Salinity	0.1							
OVA								

Sample Time: 1330

serverC/admin/DHECfielddatashl/doc

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 20

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 29.73 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1340							
Water Temp (°F)	63.5							
pH (s.u.)	5.35							
Specific Cond. (mS/cm)	.0169							
Turbidity (*)	333							
Dissolved Oxygen	4.55							
Salinity	0.2							
OVA								

Sample Time: 1340

serverC/admin/DHEC/fielddatasht/doc

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 21

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.87 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1350							
Water Temp (°F)	63.0							
pH (s.u.)	5.76							
Specific Cond. (mS/cm)	0.385							
Turbidity (*)	191							
Dissolved Oxygen	3.54							
Salinity	0.2							
OVA								

Sample Time: 1351

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.57 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1400							
Water Temp (°F)	62.1							
pH (s.u.)	4.25							
Specific Cond. (mS/cm)	.444							
Turbidity (*)	563							
Dissolved Oxygen	2.85							
Salinity	0.2							
OVA								

Sample Time: 1400

serverC/admin/DHEC/fieldatasht/doc

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- Dw-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 63 ft.
Depth to GW (DWG) 25.51 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	6	12	19					
Time (military)	1402	1413	1420					
Water Temp (°F)	63.0	63.7	64.1					
pH (s.u.)	5.67	5.55	5.79					
Specific Cond. (mS/cm)	.358	.362	.364					
Turbidity (*)	98.2	150	279					
Dissolved Oxygen	3.54	2.12	1.81					
Salinity	0.2	0.0	0.1					
OVA								

Sample Time: 1420

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/1/10
Field Personnel J. Boots / M. Bennett
General Weather Condition Cloudy
Ambient Air Temperature 50 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba U-5000 Conductivity Meter: Horiba U-5000
serial no. W22MV13L serial no. W22MV13L
pH=4.0 Internal Standard Internal
pH=7.0 Internal Standard Internal
pH=10.0 Internal Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- DW2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 21.90 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	6	12	19					
Time (military)	1423	1431	1440					
Water Temp (°F)	61.5	61.7	61.9					
pH (s.u.)	5.44	5.72	5.87					
Specific Cond. (mS/cm)	.365	.367	.372					
Turbidity (*)	.151	359	210					
Dissolved Oxygen	4.44	3.17	2.94					
Salinity	0.2	0.1	0.2					
OVA	-	-	-					

Sample Time: 1446

APPENDIX C

Historical Groundwater Elevations

TABLE 1
Historical Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
	1/5/10			--	28.26	75.36
	12/1/10			--	28.60	75.02
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
	4/8/09			--	30.45	74.66
	1/5/10			--	29.72	75.39
	12/1/10			--	29.97	75.14
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
	4/8/09			--	30.51	75.16
	1/5/10			29.75	29.86	FP
	12/1/10			28.79	33.22	FP
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
	4/8/09			--	29.60	74.84
	1/5/10			--	28.99	75.45
	12/1/10			--	29.44	75.00
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
	4/8/09			--	30.55	75.07
	1/5/10			--	29.87	75.75
	12/1/10			--	29.95	75.67
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
	4/8/09			--	28.92	74.95
	1/5/10			--	28.23	75.64
	12/1/10			--	29.95	75.67
MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
	4/8/09			--	28.05	74.50
	1/5/10			--	27.27	75.28
	12/1/10			--	27.94	74.61
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
	4/8/09			--	27.44	74.38
	1/5/10			--	26.64	75.18
	12/1/10			--	27.12	74.70
MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
	4/8/09			--	27.71	74.32
	1/5/10			--	26.93	75.10
	12/1/10			--	27.79	74.24

TABLE 1 CONT.
Historical Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
	4/8/09			--	27.94	74.36
	1/5/10			--	27.17	75.13
	12/1/10			--	27.91	74.39
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
	4/8/09			--	26.22	74.23
	1/5/10			--	25.38	75.07
	12/1/10			--	25.93	74.52
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
	4/8/09			--	27.98	74.42
	1/5/10			--	27.25	75.15
	12/1/10			--	27.46	74.94
MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
	4/8/09			--	27.90	74.01
	1/5/10			--	27.18	74.73
	12/1/10			--	27.35	74.56
MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
	4/8/09			--	28.43	73.34
	1/5/10			--	27.71	74.06
	12/1/10			--	27.91	73.86
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
	4/8/09			--	21.90	72.70
	1/5/10			--	21.08	73.52
	12/1/10			--	21.90	72.70
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82
	4/8/09			--	28.34	72.92
	1/5/10			--	27.53	73.73
	12/1/10			--	27.98	73.28
MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
	4/8/09			--	28.50	73.19
	1/5/10			--	27.75	73.94
	12/1/10			--	27.67	74.02
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
	4/8/09			--	25.21	72.98
	1/5/10			--	24.33	73.86
	12/1/10			--	25.15	73.04

TABLE 1 CONT.
Historical Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
	4/8/09			--	28.12	78.74
	1/5/10			--	31.25	75.61
	12/1/10			--	31.55	75.31
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
	1/5/10			--	29.37	75.46
	12/1/10			--	29.73	75.10
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
	1/5/10			--	27.32	75.34
	12/1/10			--	27.87	74.79
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
	1/5/10			--	26.01	75.22
	12/1/10			--	26.57	74.66
DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
	4/8/09			--	27.75	74.48
	1/5/10			--	28.19	74.04
	12/1/10			--	25.51	76.72
DW-2	12/8/08	94.62	40-60	--	23.31	71.31
	4/8/09			--	21.90	72.72
	1/5/10			--	21.14	73.48
	12/1/10			--	21.90	72.72

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

19 Tech
UST
DOCKET

UST
MAR 16 2011
PROGRAM

March 14, 2011

Ms. Stephanie Briney
SCDHEC – BUSTM
2600 Bull Street
Columbia, S.C. 29201

Re: Short Stop
Permit # 05678 CA # 39667

Dear Ms. Briney,

Included is the Chain of Custody for the December 2010 Ground Water Monitoring Report for Short Stop, UST 05678. Sorry this got left out of the report some how.

It has been a pleasure working with you on this project. Please call me directly if you have any questions at 843-412-1437.

Sincerely,

KLM Environmental, LLC

Micah Bennett
Hydrogeologist

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1378763

Section A Required Client Information:

Company:	KIM Env
Address:	PO Box 2704
	Goose Creek SC
Email To:	mkelker131@comcast.net
Phone:	8704285
Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Mark Kelker
Copy To:	
Purchase Order No.:	
Project Name:	short stop
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX Naph MTBE	1.2 DCA	Lead	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1R					12-1	1030												X	X	X	X		4283293001
2	MW-2R						1040																	002
3	~~MW-3R~~						~~1050~~																	No sample
4	MW-4R						1100																	003
5	MW-5						1110																	004
6	MW-6						1120																	005
7	MW-7						1130																	006
8	MW-8						1140																	007
9	MW-9						1150																	008
10	MW-10						1200																	009
11	~~MW-12~~ MW-11						1210																	010
12	~~MW-13~~ MW-12						1220												X	X	X	X		011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jason Boots	12-1-10	1700	Fed Ex	12-1-10	1700	
				[illegible]	12/3/10	10:00	9.1 yes no yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Boots

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12-1-10

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

*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

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

1378764

Section A Required Client Information:

Company:	KLM Env.
Address:	PO Box 2704
	Goose Creek SC 29445
Email To:	mkeller131@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEXNM	12 PCA	Lead	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13					12-1	1230												X	X	X	X		012
2	MW-14						1240																	013
3	MW-15						1250																	014
4	MW-16						1300																	015
5	MW-17						1310																	016
6	MW-18						1320																	017
7	MW-19						1330																	018
8	MW-20						1340																	019
9	MW-21						1350																	020
10	MW-22						1400																	021
11	DW-1						1420																	022
12	DW-2						1440												X	X	X	X		023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	12/2/10	1700	[signature]	12/3/10	10:00	9.1	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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.

RECEIVED
NOV 16 2007
UNDERGROUND STORAGE TANK PROGRAM

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

November 8, 2007

Ms. Maia Milenkova
SCDHEC – BUSTM
2600 Bull Street
Columbia, S.C. 29201

Re: Short Stop
Permit # 05678 CA # 24388

Dear Ms. Milenkova,

This letter is presented to document the results of the sampling event conducted at the Short Stop site (UST # 05678) located at 613 Musgrave Street in Clinton, South Carolina. On October 31, 2007 KLM mobilized to the site to perform a groundwater sampling event as requested by the SCDHEC project manager. Only one of the four wells at the site could be located. Monitoring wells MW-2, MW-3, and MW-4 have been destroyed during renovations of the site that took place in July, 2006. The area in front of the store has been paved and new dispensers have been put in along with a new canopy. The only monitoring well that was found was MW-1 which had measurable free product at 0.30 feet. Depth to product was 28.33 feet and depth to water was 28.63 feet below land surface. KLM recommends a series of AFVR events on MW-1 and assessment activities to be performed to delineate the product plume as well as the dissolved phased plume. KLM recommends conducting a Tier II Assessment at the site in order to determine the extent of the free phase product and dissolved contaminants.

It has been a pleasure working with you on this project. Please call me directly if you have any questions at 843-870-4285.

Sincerely,

KLM Environmental, LLC

Mark L. Keller, PG
President

UST PROGRAM
DOCKETING # 2

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

facsimile transmittal

To:	Maia Milenkova	**Fax:**	803-896-6245
From:	Mark L. Keller, PG	**Date:**	11/19/2007
Re:		**Pages:**	8
CC:			

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Maia,

I tried to email the information but it was rejected by the SCDHEC server. I am faxing it to you instead.

Thanks

Mark

RECEIVED
NOV 19 2007
UNDERGROUND STORAGE
TANK PROGRAM

KLM Environmental, Inc.

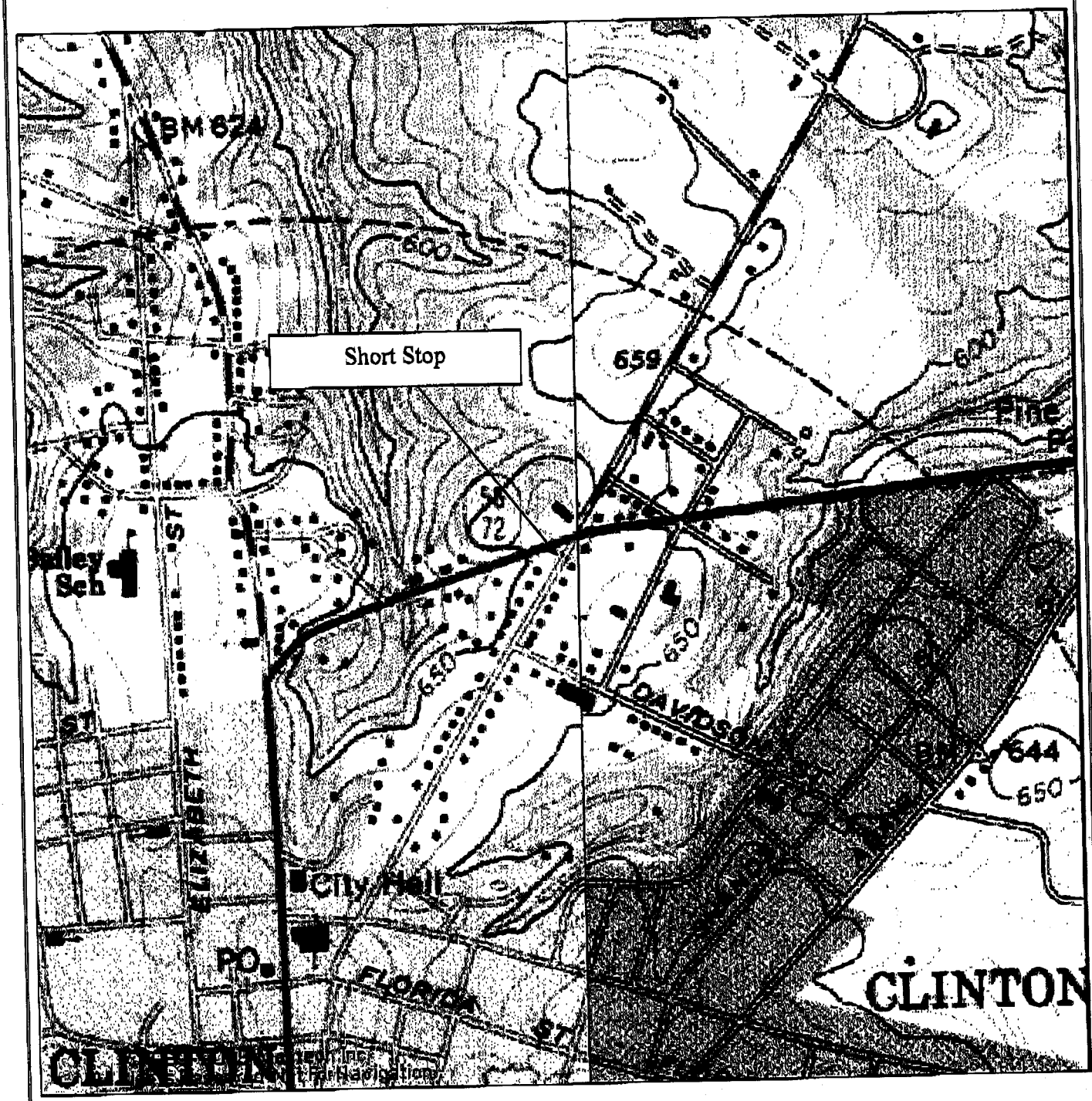
From: KLM Environmental, Inc. [mkeller131@comcast.net]
Sent: Monday, November 19, 2007 10:46 AM
To: 'milenkmp@dhec.sc.gov'
Subject: Short Stop Site ID # 05678

Maia,

Here is the information you requested for the Short Stop site located at 613 Musgrove Street in Clinton, SC. My employee that did the site visit did not perform a receptor survey after he could not find three of the wells and the one well he did find had free product in it. He knew he would be going back to the site due to the presence of free product and was going to conduct the receptor survey at that time. I apologize for that omission. I have attached the site map, sampling sheet, and past laboratory results from 1997 as you requested along with a copy of the FOI Request. We had trouble getting any of the information as the file could not be located for more than an hour during our visit to Columbia. Please let me know if you need anything further on this project.

Thank You,

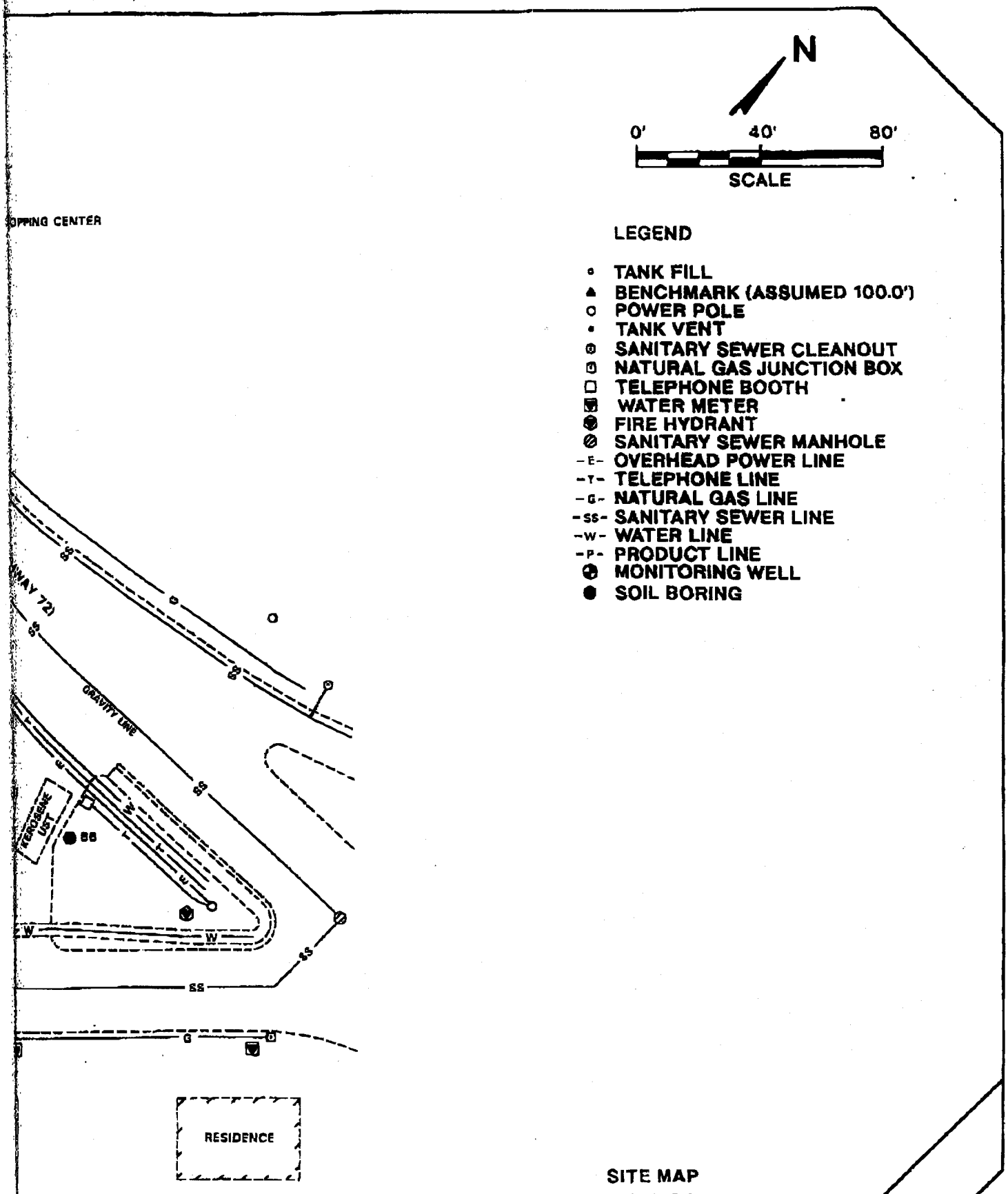
Mark L. Keller, PG
President
KLM Environmental, Inc.
PO Box 2704
Goose Creek, SC 29445
Phone: 843-870-4285
Fax: 843-797-1893



KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

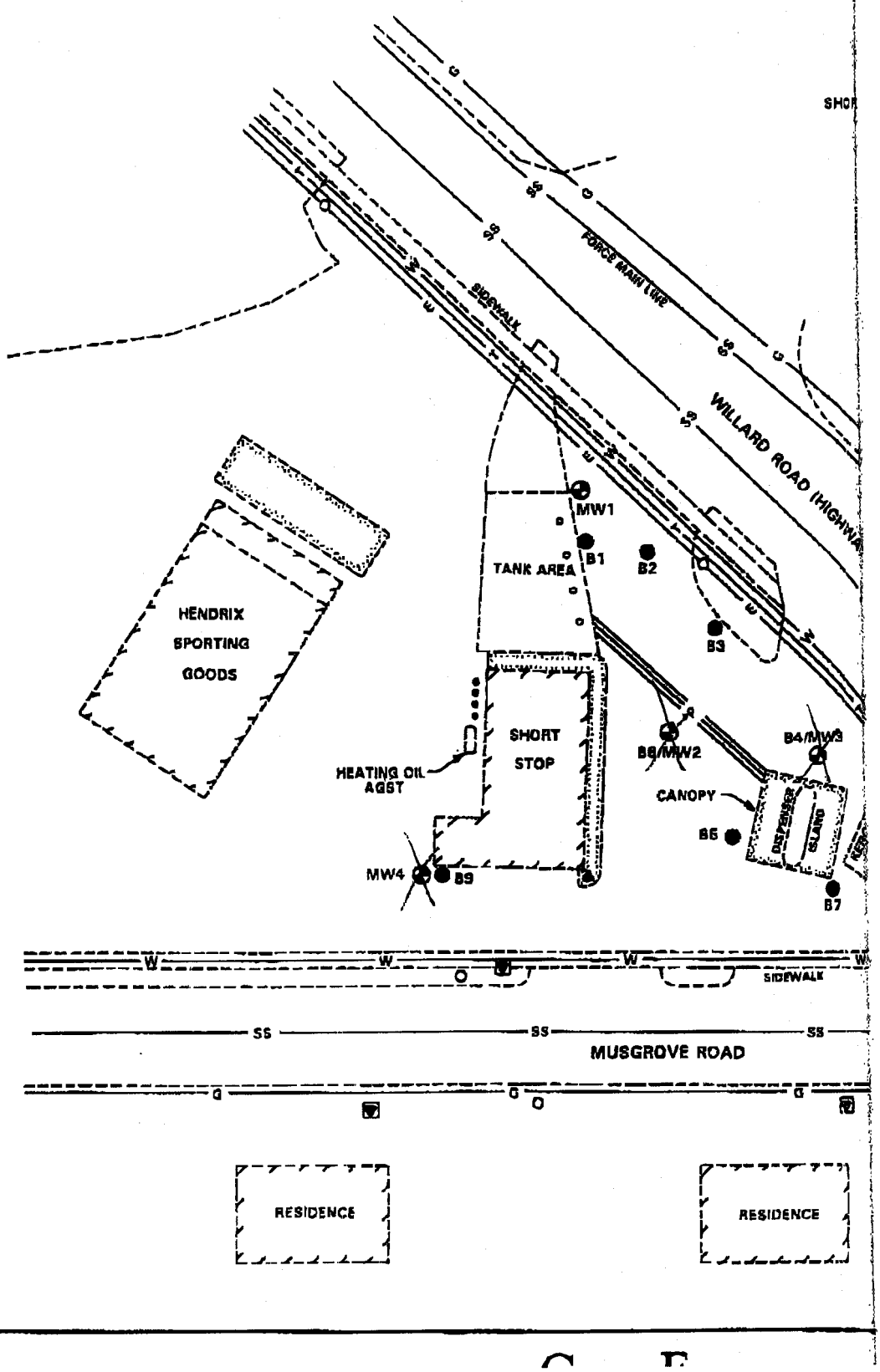


SITE MAP
FIGURE 2

SHORT STOP (SCOTCHMAN #74)

CLINTON, SC

CES PROJECT #91258



South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 10/31/07
Field Personnel M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 75 °F
Facility Name ~~Young's 17~~ Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba
serial no.
pH=4.0 Internal
pH=7.0 Internal
pH=10.0 Internal

Conductivity Meter: Horiba
serial no.
Standard Internal
Standard Internal
Standard Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Screened 19-29
Total Well Depth (TWD) 29 ft.
Depth to GW (DWG) 28.63 ft. DTP. 28.73

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity (*)								
OVA Readings								
Salinity								
Dissolved Oxygen								

Remarks: F.P. No Sample Taken

NOV-19-2007 11:20 AM KLM Environmental INC 8437971893 P. 6

TABLE 4

LABORATORY RESULTS FOR GROUNDWATER SAMPLES
FORMER SCOTCHMAN #74 (SHORT STOP), CLINTON, SOUTH CAROLINA
GWPD #05678, CES PROJECT #91258
PARADIGM, SC CERTIFIED LABORATORY LICENSE #99029

EPA METHOD 602								
WELL #	SAMPLE DATE	BENZENE (PPB)	TOLUENE (PPB)	ETHYL BENZENE (PPB)	XYLENES (PPB)	TOTAL BTEX (PPB)	MTBE (PPB)	NAPHTHALENE (PPB)
MW-1	03/15/97	21,000	44,000	3,800	19,000	87,800	25,000	2,900
MW-2	11/04/97	250	720	72	310	1,352	BQL	BQL
MW-3	11/04/97	310	1,100	150	460	2,220	BQL	BQL
MW-4	11/04/97	5	18	2	5	30	6	BQL
RBSL'S	-	5	1000	700	10000	-	40	10

EPA METHOD 610								
WELL #	SAMPLE DATE	BENZO (a) ANTHRA-CENE (PPB)	BENZO (b) FLUOR-ANTHENE (PPB)	BENZO (k) FLUOR-ANTHENE (PPB)	CHRYSENE (PPB)	DIBENZO (a,h) ANTHRA-CENE (PPB)	NAPHTHALENE (PPB)	ANY OTHER COMPOUNDS DETECTED (YES/NO)
MW-1	03/15/97	ND	ND	ND	ND	ND	3,500	YES (1)
MW-2	11/04/97	BQL	BQL	BQL	BQL	BQL	BQL	NO
MW-3	11/04/97	BQL	BQL	BQL	BQL	BQL	BQL	NO
MW-4	11/04/97	BQL	BQL	BQL	BQL	BQL	BQL	NO
RBSL'S	-	10	10	10	10	10	10	-

NOTES:
1) ND = Not detected.
2) NA = Not applicable (not sampled).

BOARD:
Paul C. Aughtry, III
Chairman
Edwin H. Cooper, III
Vice Chairman
Steven G. Kinner
Secretary

D H E C

PROMOTE PROTECT PROSPER

05143

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment

BOARD:
Henry C. Scott
M. David Mitchell, MD
Glenn A. McCall
Coleman F. Buckhouse, MD

10/05/2007

MR. MARK KELLER
KLM ENVIRONMENTAL

P.O. BOX 2704
GOOSE CREEK, SC 29445-

Request Number : 0710059

RE: SHORT STOP (UST #05676)
LAURENS CO.

DEAR MR. KELLER

Your request for the above referenced information has been received by the Freedom of Information Center. The Freedom of Information staff are currently researching and compiling this information. You will be notified by our office when the research process is complete and files are ready for your review or files are ready to be copied.

If we are unable to locate files on a facility, based on the information submitted, you will be notified by mail.

Any requested department reports, publications or materials, other than facility files, will be mailed to you when completed.

Further inquiries regarding your request should include your above mentioned Freedom of Information Request Number. We can be reached at (803) 898-3882.

Sincerely,

Jody M. Hamm

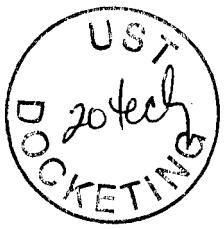
Jody M. Hamm, Coordinator
Freedom Of Information Center
Office of Commissioner

D H E C
PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

MAR 1 8 2014



Re: **Site Specific Work Plan Request**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678
Release reported December 30, 1991
Laurens County

Dear Ms. Jackson:

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

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) revision 2.0 and must be conducted in compliance with all applicable regulations. **All monitoring wells will need to be purged since it has been greater than 12 months since the last sampling event in accordance with the QAPP**. Groundwater samples should be collected from all monitoring wells associated with the release and analyzed for BTEX + Naphth + MtBE, 1,2 DCA, 8 oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.
A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Please have your contractor complete and submit the Site Specific Work Plan and Cost Agreement within thirty (30) days of the date of this letter. The Site Specific Work Plan form can be found at http://www.dhec.sc.gov/administration/library/D-0653.pdf. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins**.

On all correspondence regarding this site, please reference UST Permit #05678. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhec.sc.gov.

Sincerely,

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

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445
Technical File

D H E C
PROMOTE PROTECT PROSPER

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

UST 21tech DOCKETING

UST APR 09 2014 DIVISION

To: Sonya Utz
From: Mark Keller, PG (SCDHEC Project Manager)
Contractor: KLM Environmental (Contractor Project Manager)
UST Contractor Certification Number: 345

Facility Name: Short Stop
UST Permit #: 05678
Facility Address: 613 Musgrove Street, Clinton, SC
Responsible Party: Worsley Companies Inc
Phone: 910-343-1991
RP Address: 123 Shipyard Blvd Wilmington, NC 28412
Property Owner (if different): Arthur D Gast III
Property Owner Address: PO Box 556 Lavonia, Ga 30553
Current Use of Property: Gas station

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

- ☐ BTEXN

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

0	Soil	0	Water Supply Wells	0	Air	2	Field Blank
24	Monitoring Wells	0	Surface Water	2	Duplicate	2	Trip Blank

Field Screening Methodology

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

# of shallow points proposed: NA — Estimated Footage: NA feet per point
# of deep points proposed: NA — Estimated Footage: NA feet per point
Field Screening Methodology: NA

Permanent Monitoring Wells

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

# of shallow wells: NA — Estimated Footage: NA feet per point
# of deep wells: NA — Estimated Footage: NA feet per point
# of recovery wells: NA — Estimated Footage: NA feet per point
Monitoring Well development method (consistent with SOP): NA

Comments, if warranted:
NA

UST Permit #: 05678 Facility Name: Short Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Field Work Completion: 35
Report Submittal: 60 # of Copies Provided to Property Owners:

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

Investigation Derived Waste Disposal
Soil: NA Tons Purge Water: 65 Gallons
Drilling Fluids: NA Gallons Free-Phase Product: 0 Gallons

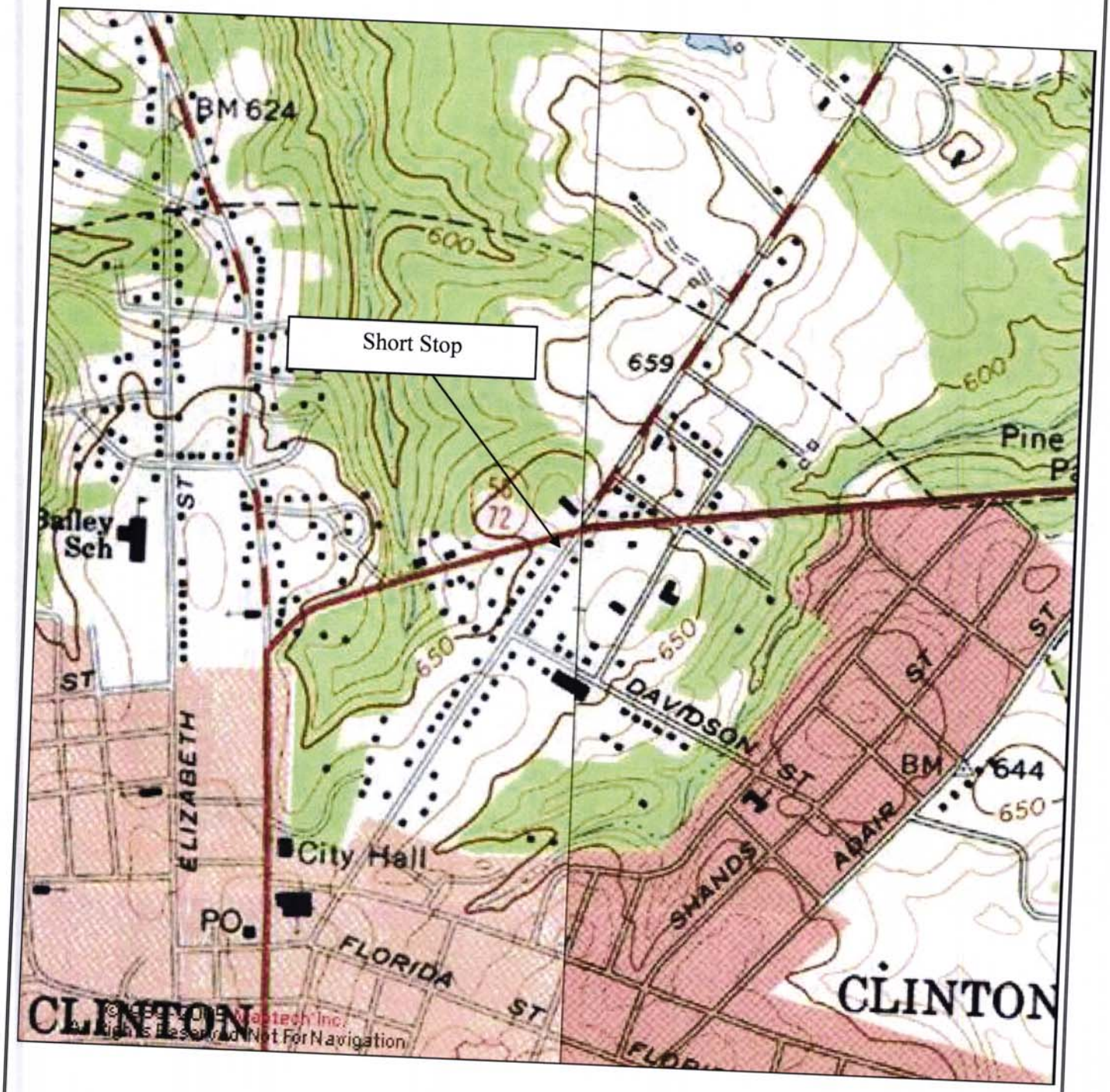
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample all monitoring wells. Purging will be required on all wells prior to sample collection.
Two mobilizations for sampling are being proposed per the standards set forth in SCDHEC Solicitation # 5400007403 where a separate personnel mobilization is allowed for every 20 monitoring wells sampled or gauged.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: Pace Laboratory
SCDHEC Certification Number: SC 99006001
Name of Laboratory Director: Jeff Graham

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller:
SCLLR Certification Number:

NA Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

ASSESSMENT COMPONENT COST AGREEMENT 2013

SOUTH CAROLINA

Department of Health and Environmental Control (DHEC)

Bureau of Underground Storage Tank Management

Facility Name: **Short Stop**

UST Permit#: **05678** Cost Agreement #

		QTY	UNIT	UNIT PRICE	TOTAL
1	Plan*				
	A1. Site Specific Work Plan	1	x	150.00	150.00
	B1. Tax Map		x	$70.00	-
	C1. Tier II or Comp. Plan/QAPP App. B		x	$250.00	-
2	A1. Receptor Survey*		x	$551.00	-
3	Survey (500ft x 500 ft)				
	A1. Comprehensive Survey		x	$1,040.00	-
	B. Subsurface Geophysical Survey				
	1. <10 meters below grade		x	$1,300.00	-
	2. >10 meters below grade		x	$2,310.00	-
	C1. Geophysical UST or Drum Survey		x	$910.00	-
4	Mob/Demob (List component #)				
	A1. Equipment ()		x	$1,020.00	-
	B1. Personnel (10,10,17)	3	x	$423.00	1,269.00
	C1. Adverse Terrain Vehicle		x	$500.00	-
5	Soil Borings (hand auger)*		feet x	$5.00	-
6	Soil Borings or Field Screening*				
	A1. Standard		feet x	$7.40	-
	B1. Fractured Rock		feet x	$20.20	-
7	Soil Leachability Model		each x	$60.00	-
8	Abandonment				
	A1. 2" or less*		feet x	$3.10	-
	B1. 2+" to 6"*		feet x	$4.50	-
	C1. Dug/bored well (up to 6 ft dia.)*		feet x	$15.00	-
9	Well Installation *				
	A1. Water Table (hand auger)*		feet x	$10.60	-
	B1. Water Table (drill rig)*		feet x	$38.00	-
	C1. Telescoping*		feet x	$31.80	-
	D1. Rock Drilling*		feet x	$26.80	-
	E1. 2" Rock Coring*		feet x	$30.90	-
	G1. Multi-sampling ports/screens*		feet x	$33.40	-
	H1. Recovery Well (4" dia.)*		feet x	$30.00	-
	I1. Pre-packed screen (1.25" dia.)*		feet x	$15.00	-
	J1. Rotosonic (2" dia.)*		feet x	$44.00	-
	K. Re-develop existing well*		feet x	$11.00	-
10	Sample Collection*				
	A1. Ground-water (purge)*	24	per well or receptor x	$60.00	1,440.00
	B1. Air or Vapors*		Per receptor x	$12.00	-
	C1. Water Supply*		per well or receptor x	$22.00	-
	D1. Groundwater (No Purge or duplicate)*	2	per well or receptor x	$28.00	56.00
	E1. Gauge Well Only*		per well x	$7.00	-
	F1. Sample Below Product*		per well x	$12.00	-
	G1. Passive Diffusion Bag*		each x	$26.00	-
	H1. Field Blank	2	each x	$24.60	49.20
11	Analyses-Groundwater (See Analytical Methodology for analyses)				
	A2. BTEXNM+Oxyg's+1,2-DCA+Eth(8260B	30	samples x	$122.00	3,660.00
	AA1. Lead, Filtered		samples x	$13.80	-
	B2. 8260 RUSH		samples x	$153.60	-
	C2. Trimethyl, Butyl, & Isopropyl Benzene		samples x	$36.40	-
	D1. PAH's		samples x	$60.60	-
	E1. Lead, Unfiltered		samples x	$16.00	-
	F1. EDB by 8011	28	samples x	$45.20	1,265.60
	FF1. EDB by 8011 RUSH		samples x	$68.20	-
	G1. 8 RCRA Metals		samples x	$63.40	-
	H1. TPH (9070)		samples x	$41.00	-
	I1. pH		samples x	$5.20	-
	J1. BOD		samples x	$20.00	-
	P1. Ethanol		samples x	$14.80	-
				sub-total	7,889.80

UST Facility Name	Short Stop			Cost Agreement #	00000
UST Permit#	05678				
		QTY	UNIT	UNIT PRICE	TOTAL
11	Analyses-Soil				
	Q1. BTEX + Napth.		samples x	$64.00	-
	R1. PAH's		samples x	$64.04	-
	S1. 8 RCRA Metals		samples x	$56.40	-
	U1. TPH-DRO (3550C/8015C)		samples x	$40.00	-
	V1. TPH-GRO (5035B/8015C)		samples x	$35.96	-
	W1. Grain size/hydrometer		samples x	$104.00	-
	X1. Total Organic Carbon		samples x	$30.60	-
	Analyses-Air				
	Y1. BTEX + Napth.		samples x	$216.00	-
	Analyses-Free-Phase Product				
	Z1. Hydrocarbon Fuel Identification		samples x	$357.00	-
12	Aquifer Characterization*				
	A1. Pumping Test*		hours x	$23.00	-
	B1. Slug Test*		tests x	$191.00	-
	C1. Fractured Rock*		tests x	$100.00	-
13	Free Product Recovery Rate Test*		tests x	$38.00	-
14	Fate/Transport Modeling				
	A1. Mathematical Model		models x	$100.00	-
	B1. Computer Model		models x	$100.00	-
15	Risk Evaluation				
	A1. Tier I Risk Evaluation		x	$300.00	-
	B1. Tier II Risk Evaluation		x	$100.00	-
16	Subsequent Survey*		x	$260.00	-
17	Disposal				
	AA. Wastewater*	125	gallons x	$0.56	70.00
	BB. Free Product*		gallons x	$0.50	-
	C1. Soil Treatment/Disposal*		ton x	$60.00	-
	D1. Drilling Fluids*		gallons x	$0.42	-
18	Miscellaneous(attach receipts)		each x	pre aprroved	
20	IGWA ($3,460 SE $3,760 Others)		standard		-
21	Tier I Assessment ($10,230/$11,230)		standard		-
22	Active Corrective Action		PFP bid		-
23	EFR				-
	A1. 8-hour event		each x	$1,375.00	-
	A2. 24-hour event		each x	$3,515.00	-
	A3. 48 hour event		each x	$6,265.00	-
	A4. 96-hour event		each x	$12,567.50	-
	C1. Off-gas treatment 8-hour		per event x	$122.50	-
	C2. Off-gas treatment 24 hour		per event x	$241.50	-
	C3. Off-gas treatment 48 hour		per event x	$327.00	-
	C4. Off-gas treatment 96 hour		per event x	$780.00	-
	D1. AFVR Site Reconnaissance		each x	$203.25	-
	E1. Additional hook-ups		each x	$25.75	-
	F. Effluent Disposal		gallon x	$0.30	-
	G. AFVR Mobilization/Demobilizatior		each x	$391.50	-
24	Granulated Activated Carbor (GAC) filter system installation & service:				
	A1. New GAC System Installation*		each x	$1,900.00	-
	BB. Refurbished GAC Sys. Install*		each x	$900.00	-
	C1. Filter replacement/removal*		each x	$350.00	-
	DD. GAC System removal,cleaning*		each x	$275.00	-
	E1. GAC System housing*		each x	$250.00	-
	F. In-line particulate filter		each x	$150.00	-
	G1. Additional piping & fittings		foot x	$1.50	-
25	Well Repair*				
	A1. Additonal Copies of Report		each x	$50.00	-
	B1. Repair 2x2 MW Pad*		each x	$50.00	-
	C1. Repair 4x4 MW Pad*		each x	$88.00	-
	D1. Repair Well Vault*		each x	$118.00	-
	F1. Replace well cover bolts		each x	$2.60	-
	G1. Replace locking well cap & lock		each x	$15.00	-
	H1. Replace/repair stick-up		each x	$134.00	-
	I1. Convert flush-mount to stick-up		each x	$150.00	-
	J1. Convert stick-up to flush-mount		each x	$130.00	-
	K1. Replace missing/illegible well tag		each x	$12.00	-
					-
	Project Management Fee (%)		x	Subtotal	$7,809.80
				10.0%	$780.98
	Total			**Total**	**$8,590.78**

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

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MS GRETA STANLEY
WORSLEY COMPANIES INC
123 SHIPYARD BLVD
WILMINGTON NC 28412

APR 15 2014

Re: **Groundwater Sampling Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA# 47749
Release reported December 30, 1991
Site Specific Work Plan received April 9, 2014
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced addendum submitted on your behalf by KLM Environmental, LLC. The next appropriate scope of work at the site is a comprehensive groundwater sampling event. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and must be conducted in compliance with all applicable regulations. A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement #47749 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. **All monitoring wells will need to be purged since it has been greater than 12 months since the last sampling event in accordance with the QAPP**. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, 8 oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

In accordance with the QAPP Revision 2.0, a weekly status report of the project should be provided via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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

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

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual chemical of concerns (CoC) in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

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

On all correspondence regarding this site, please reference UST Permit #05678. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhec.sc.gov.

Sincerely,

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

enc: Approved Cost Agreement

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445 (with enc.)
Technical File (with enc.)

Approved Cost Agreement 47749

Facility: 05678 SHORT STOP
UTZST
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB					
		B1 PERSONNEL	3.0000	423.00	1,269.00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	24.0000	60.00	1,440.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	2.0000	28.00	56.00
		H1 FIELD BLANK	2.0000	24.60	49.20
11 ANALYSES	GW GROUNDWATER				
		A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	30.0000	122.00	3,660.00
		F1 EDB BY 8011	28.0000	45.20	1,265.60
17 DISPOSAL					
		AA WASTEWATER	125.0000	0.56	70.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PERC REPORT PREPARATION	0.1000	7,959.80	795.98
			Total Amount		8,755.78

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 5-22-14

Permit Number ~~06578~~ 05678

Project Manager Sonya Utz

Name of Contractor KLM Env

UST Certification Number

Docket Number ~~11 tech~~ 23 tech

Scanned

Monitoring Rpt

Monitoring Report
Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

May 19th, 2014

Prepared for:

Ms. Sonya Utz
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*
UST Contractor # 345

Project # 05143.7

SIGNATURE PAGE

This report entitled "**Monitoring Report**" for the **Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

J. Micah Bennett, PG
Vice President

Reviewed By:

Mark L. Keller, PG
President

5/19/14
Date

MARK L. KELLER
REGISTERED
No. 2811
5/19/14
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina. A topographic map is provided as Figure 1 in Appendix A. The current property owner is listed as Arthur D Gast III at PO Box 556 Lavonia, GA 30553. The former UST owner responsible for the release reported on December 30th, 1991 is listed as Worsley Companies, Inc. located at 123 Shipyard Blvd. in Wilmington, NC 28412; phone 910-343-1991. KLM Environmental is the Certified UST Site Rehabilitation Contractor performing the work. KLM's address is PO Box 2704, Goose Creek, SC 29445, phone 843-870-4285. Pace Analytical Services, Inc. is the certified laboratory used to analyze the samples for this work. Pace Analytical Services main address is 9800 Kincey Ave., Suite 100, Huntersville, NC 28078, phone # 704-875-9092.

The release was reported on December 30th, 1991. The site has been undergoing assessment and monitoring activities since that date. This property is an in service gasoline dispensing station bordered by commercial and residential property.

The site is situated in the inner piedmont belt where the soil mainly consists of saprolite, sandy clays and clays that are underlined by medium to high grade metamorphic rock, such as granitic, biotitic and hornblendic rocks.

KLM Environmental conducted the majority of the previous assessment work. The Short Stop site was last sampled in December of 2010. This report serves to document the current groundwater data at the Short Stop site.

2.0 GROUNDWATER INFORMATION

2.1 Piezometric Data

Figure 2 in Appendix A serves as the comprehensive site map showing the locations of the twenty-two shallow monitoring wells and two telescoping wells at the Short Stop site. Piezometric data collected during sampling activities for the monitoring wells associated with the release at the site can be found in Table 1. Historical piezometric data can be found in Appendix F for comparison. A piezometric map was created utilizing data collected from the shallow wells during the sampling event conducted on May 6th, 2014. The piezometric map can be found in Appendix A as Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	5/6/14	103.62	20-40	--	26.80	76.82
MW-2R	5/6/14	105.11	20-40	--	28.40	76.71
MW-3R*	5/6/14	105.67	20-40	27.72	31.56	**FP**
MW-4R	5/6/14	104.44	20-40	--	27.40	77.04
MW-5	5/6/14	105.62	20-40	--	28.54	77.08
MW-6	5/6/14	103.87	20-40	--	26.50	77.37
MW-7	5/6/14	102.55	20-40	--	25.67	76.88
MW-8	5/6/14	101.82	20-40	--	25.17	76.65
MW-9	5/6/14	102.03	20-40	--	25.18	76.85
MW-10	5/6/14	102.30	20-40	--	25.49	76.81
MW-11	5/6/14	100.45	20-40	--	24.97	75.48
MW-12	5/6/14	102.40	20-40	--	25.94	76.46
MW-13	5/6/14	101.91	20-40	--	25.92	75.99
MW-14	5/6/14	101.77	20-40	--	26.38	75.39
MW-15	5/6/14	94.60	11-31	--	19.31	75.29
MW-16	5/6/14	101.26	19-39	--	25.95	75.31
MW-17	5/6/14	101.69	20-40	--	26.66	75.03
MW-18	5/6/14	98.19	20-40	--	22.69	75.5
MW-19	5/6/14	106.86	20-40	--	29.53	77.33
MW-20	5/6/14	104.83	20-40	--	27.95	76.88
MW-21	5/6/14	102.66	20-40	--	25.72	76.94
MW-22	5/6/14	101.23	20-40	--	24.44	76.79
DW-1*	5/6/14	102.23	58-63	--	25.49	76.74
DW-2*	5/6/14	94.62	55-60	--	19.37	75.25

* indicates wells not used to construct piezometric map. CNL = Could not locate

Depths to fluid measurements were collected relative to the top of casing for each well. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

2.2 Groundwater Sampling

Since the monitoring well network has not been sampled within the last twelve months, purging was required on all monitoring wells. A minimum of three well volumes were purged from all monitoring wells prior to sample collection using an electric purge pump. The purge pump and hose were decontaminated between wells with a triple station rinse as outlined in the QAPP. Immediately after well purging was completed groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured with the Horiba U-52 (serial # W22MV13L) and recorded for each sample during well purging or at the time of collection. The Horiba U-52 (serial # W22MV13L) was calibrated with Horiba 100-4 standard solution prior to use and the calibration records are recorded on the calibration sheet which are included in Appendix B. Following collection in the field, the groundwater samples were packed on wet ice and submitted to Pace Analytical Services (SCDHEC Certification # 99006) and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, 1,2 DCA, 8 Oxygenates, and EDB. Analytical results are provided in Table 2 and 3 and in Appendix B. Historical groundwater analytical data is also provided in Appendix B along with the field sampling sheets. A map is provided as Figure 4 in Appendix A showing the sample results along with the well locations. A disposal manifest for 188 gallons of contaminated purge water is provided in Appendix G.

Sampling was performed on May 6th, 2014. Results for all wells sampled are as follows:

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS	NS
MW-1R	4/8/09	**8500**	**6440**	**871**	4620	**3170**	**<500**	**80.7**	**35.2**	NS
	1/5/10	**8460**	**9170**	**1400**	8790	**7420**	**635**	4.7	**41.7**	**322**
	12/1/10	**6120**	**2900**	349	3260	**4950**	**<290**	<5.0	**13.8**	**<130**
	5/6/14	**12900**	**20800**	**1020**	9750	**16600**	**553**	NS	**40.3**	**287**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02	NS
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS	NS
	4/8/09	**504**	97.8	41.9	361	16.2	<25.0	<5.0	<0.019	NS
	1/5/10	**777**	199	82.8	670	25.1	<25.0	<5.0	<0.020	<25.0
	12/1/10	**1080**	277	96.4	880	**61.5**	**<29.0**	<5.0	<0.019	**<13.0**
	5/6/14	**990**	233	134	1160	**94.7**	<50.0	NS	<0.020	<50.0
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02	NS
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS	NS
	4/8/09	**4380**	**18000**	**1420**	7470	**28400**	**<1000**	<5.0	<0.019	NS
	1/5/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	12/1/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	5/6/14	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02	NS
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS	NS
	4/8/09	**13.4**	<5.0	<5.0	3.6	6.4	<5.0	5.7	<0.019	NS
	1/5/10	**13.5**	<5.0	<5.0	6.1	5.8	<5.0	5.0	<0.019	<5.0
	12/1/10	**18.1**	1.9	<5.0	10.5	10.7	<5.0	4.7	<0.020	<5.0
	5/6/14	<5.0	5.2	2.1	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02	NS
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS	NS
	4/8/09	**931**	709	183	798	**53.2**	**<50.0**	13.5	<0.020	NS
	1/5/10	**1050**	841	242	1070	**49.6**	<25.0	<5.0	<0.019	<25.0
	12/1/10	**2410**	**2420**	483	2120	**82.7**	**<29.0**	<5.0	<0.020	**<13.0**
	5/6/14	**1720**	**1060**	414	2080	**921**	**48.8**	NS	<0.020	<100
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	1.8	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	12/1/10	<5.0	2.0	<5.0	<10.0	<5.0	<5.0	11.2	<0.019	<5.0
	5/6/14	<5.0	6.5	2.8	17.0	<5.0	<5.0	NS	<0.020	<5.0
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02	NS
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS	NS
	4/8/09	**8.1**	<5.0	<5.0	9.9	11.6	<5.0	<5.0	<0.020	NS
	1/5/10	4.1	<5.0	<5.0	2.8	3.7	<5.0	6.3	<0.020	<5.0
	12/1/10	**334**	<5.0	1.9	258	10.3	<5.0	8.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0

Note: All results in µg/l. Numbers in bold exceed RBSL. CNL = Could Not Locate NS = Not Sampled

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**	NS
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS	NS
	4/8/09	**1190**	<50.0	15.1	447	**638**	**<50.0**	12.5	**0.34**	NS
	1/5/10	**383**	8.8	16.0	204	**331**	<10.0	5.1	**0.10**	3.2
	12/1/10	**2030**	32.7	75.2	833	**1300**	<10.0	<5.0	<0.020	**14.3**
	5/6/14	**2500**	<100	<100	1080	**720**	<100	NS	**0.83**	<100
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**59.1**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**28.2**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**36.7**	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.1	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02	NS
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.9	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**	NS
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS	NS
	4/8/09	**152**	<5.0	<5.0	18.6	**163**	<5.0	<5.0	0.38	NS
	1/5/10	**775**	<5.0	<5.0	75.4	**463**	13.0	**16.1**	**0.94**	**8.9**
	12/1/10	<5.0	<5.0	<5.0	<10.0	5.9	<5.0	8.7	<0.020	<5.0
	5/6/14	**1030**	<5.0	1.8	104	**524**	**27.1**	NS	**0.46**	**13.9**

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**21.4**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**17.8**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.6	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	2.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	8.7	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	**70.5**	<5.0	NS	<0.020	<5.0
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.2	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.7	<0.019	NS
	1/5/10	**5.8**	93.4	19.8	94.1	2.5	6.1	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	1.7	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-20	4/8/09	**3940**	**16900**	690	5260	**5060**	**127**	5.5	**3.1**	NS
	1/5/10	**8500**	**54200**	**1530**	**14400**	**12000**	**408**	10.7	**29.1**	**188**
	12/1/10	**6890**	**37300**	**1640**	**11200**	**9600**	**<1450**	7.0	**18.2**	**<650**
	5/6/14	**7420**	**39200**	**2340**	**16500**	**7550**	**538**	NS	**29.0**	<1250
MW-21	4/8/09	**3620**	<250	90.0	3390	**1360**	**<250**	11.8	**0.75**	NS
	1/5/10	**5000**	54.4	298	9080	**3150**	**122**	<5.0	**0.64**	**85.3**
	12/1/10	**5830**	<250	121	7120	**1740**	**<145**	6.3	**0.19**	**<65.0**
	5/6/14	**5640**	<250	254	6820	**4700**	<250	NS	**0.92**	<250
MW-22	4/8/09	**414**	4.2	2.3	169	**45.2**	<5.0	**15.9**	<0.020	NS
	1/5/10	**6.8**	<5.0	<5.0	<10.0	<5.0	<5.0	**21.7**	0.039	<5.0
	12/1/10	**47.8**	<5.0	<5.0	8.1	<5.0	<5.0	4.9	<0.020	<5.0
	5/6/14	**138**	<5.0	2.0	39.2	**60.3**	<5.0	NS	<0.020	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02	NS
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS	NS
	4/8/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	2.0	<5.0	<5.0	4.3	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
QA / QC Data										
Dup. 1 (MW-20)	5/6/14	**7250**	**37900**	**2320**	**16000**	**7800**	**585**	NS	**34.0**	**145**
Dup. 2 (MW-2R)	5/6/14	**983**	156	137	1080	**90.2**	4.5	NS	<0.020	<5.0
Field Blank	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
Trip Blank	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	NS	<5.0

TABLE 3
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	(ETBE)	(TAME)	(DIPE)	(TBA)	(TAA)	(TBF)	Ethanol	(ETBA)
RBSL	**--**	**47**	**128**	**150**	**1400**	**240**	**--**	**10000**	**--**
MW-1R	5/6/14	<500	<500	136	**32600**	**37500**	<2500	<10000	<5000
MW-2R	5/6/14	<100	<100	<50.0	<1000	<1000	<500	<2000	<1000
MW-3R	5/6/14	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-5	5/6/14	<200	<200	71.4	<2000	<2000	<1000	<4000	<2000
MW-6	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-7	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-8	5/6/14	<200	<200	<100	**1740**	**13000**	<1000	<4000	<2000
MW-9	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-10	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-11	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-12	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-13	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-14	5/6/14	<10.0	<10.0	11.5	720	**3410**	<50.0	<200	<100
MW-15	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-16	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-17	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-18	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-19	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-20	5/6/14	<2500	<2500	<1250	<25000	<25000	<12500	<50000	<25000
MW-21	5/6/14	<500	<500	<250	**3640**	**27900**	<2500	<10000	<5000
MW-22	5/6/14	<10.0	<10.0	<5.0	147	**1250**	<50.0	<200	<100
DW-1*	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
DW-2*	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
QA / QC Analytical Data									
Dup. 1 (MW-20)	5/6/14	<50.0	62.0	**153**	**1810**	**6440**	<250	<1000	<500
Dup. 2 (MW-2R)	5/6/14	<10.0	<10.0	4.0	<100	174	<50.0	<200	<100
Field Blank	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
Trip Blank	5/6/14	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100

Note: All results in µg/l.

3.0 CONCLUSIONS

All data was reviewed thoroughly by KLM's Quality Assurance Officer and the data was determined to be valid. 3.84 feet of free product was detected in monitoring well MW-3R during the sampling event performed on May 6th, 2014. The laboratory reported contamination above Risk Based Screening Levels (RBSLs) in monitoring wells MW-1R, MW-2R, MW-5, MW-8, MW-14, MW-16, MW-20, MW-21 and MW-22. The current groundwater data indicates the contaminant plume is no longer defined horizontally. MTBE was the only contaminant reported by the laboratory in monitoring well MW-16 (MTBE 70.5 ppb). This indicates the contaminant plume is migrating down gradient to the west as MTBE is typically identified in the leading edge of the plume. The area to the north and east of MW-3R and MW-5 are undefined as well.

KLM recommends performing a series of long duration Aggressive Fluid Vapor Recovery (AFVR) events on monitoring well MW-3R in an effort to remove free product from the site. Additional assessment to the west of MW-16 along with the area to the north and east of MW-3R and MW-5 will be required to define the plume horizontally. A comprehensive sampling event should follow the assessment and AFVR events.

4.0 REFERENCES

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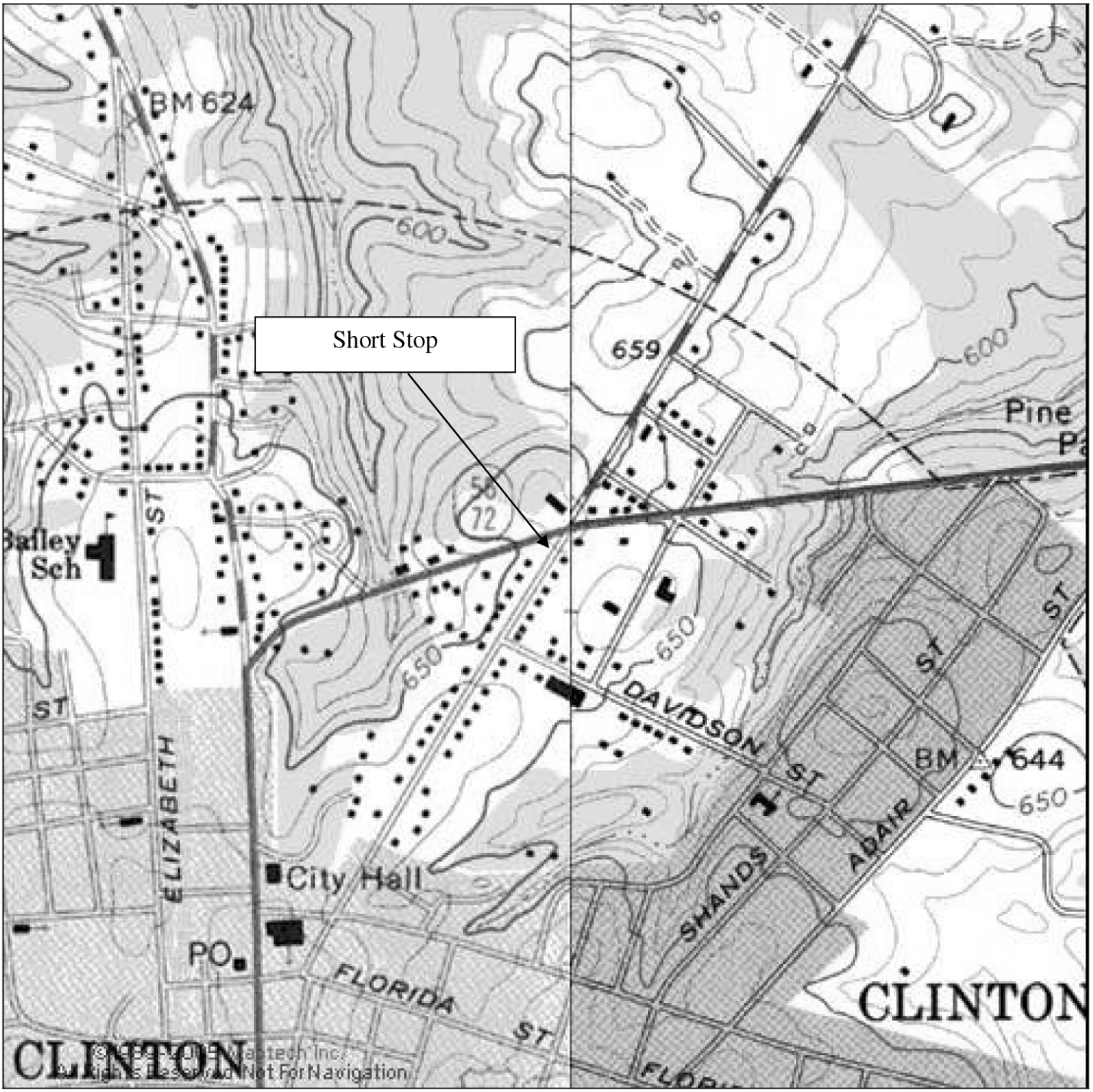
APPENDIX A

Figures



KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

KLM Environmental, LLC

Phase I- Phase II Underground Storage Tanks Soil & Water Sampling- Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	5/6/14	103.62	20-40	--	26.80	76.82
MW-2R	5/6/14	105.11	20-40	--	28.40	76.71
MW-3R*	5/6/14	105.67	20-40	27.72	31.56	FP
MW-4R	5/6/14	104.44	20-40	--	27.40	77.04
MW-5	5/6/14	105.62	20-40	--	28.54	77.08
MW-6	5/6/14	103.87	20-40	--	26.50	77.37
MW-7	5/6/14	102.55	20-40	--	25.67	76.88
MW-8	5/6/14	101.82	20-40	--	25.17	76.65
MW-9	5/6/14	102.03	20-40	--	25.18	76.85
MW-10	5/6/14	102.30	20-40	--	25.49	76.81
MW-11	5/6/14	100.45	20-40	--	24.97	75.48
MW-12	5/6/14	102.40	20-40	--	25.94	76.46
MW-13	5/6/14	101.91	20-40	--	25.92	75.99
MW-14	5/6/14	101.77	20-40	--	26.38	75.39
MW-15	5/6/14	94.60	11-31	--	19.31	75.29
MW-16	5/6/14	101.26	19-39	--	25.95	75.31
MW-17	5/6/14	101.69	20-40	--	26.66	75.03
MW-18	5/6/14	98.19	20-40	--	22.69	75.5
MW-19	5/6/14	106.86	20-40	--	29.53	77.33
MW-20	5/6/14	104.83	20-40	--	27.95	76.88
MW-21	5/6/14	102.66	20-40	--	25.72	76.94
MW-22	5/6/14	101.23	20-40	--	24.44	76.79
DW-1*	5/6/14	102.23	58-63	--	25.49	76.74
DW-2*	5/6/14	94.62	55-60	--	19.37	75.25

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

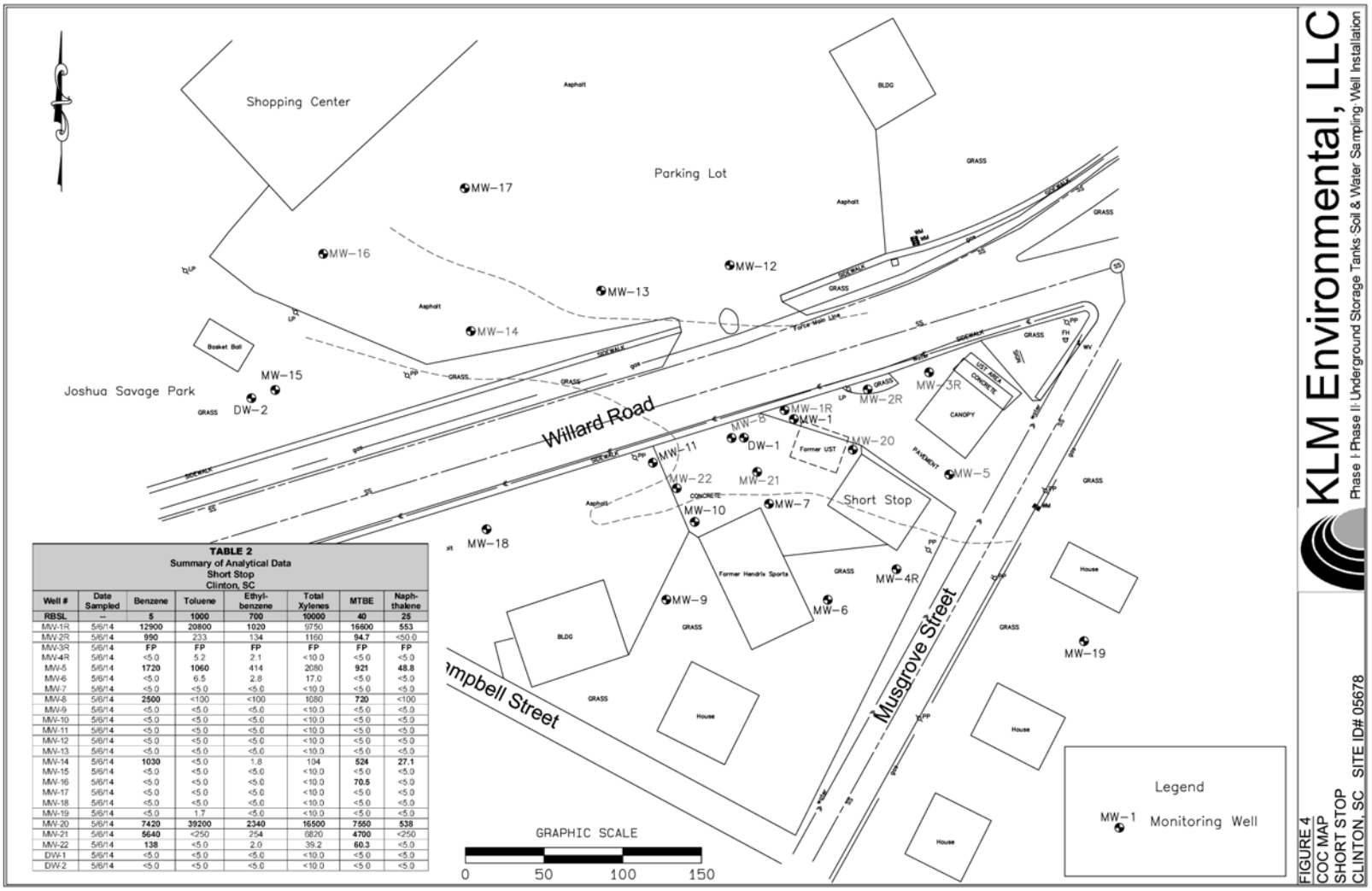


TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene
RBSL	---	**5**	**1000**	**700**	**10000**	**40**	**25**
MW-1R	5/6/14	**12900**	**20800**	**1020**	9750	**16600**	**553**
MW-2R	5/6/14	**990**	233	134	1160	**94.7**	<50.0
MW-3R	5/6/14	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	5/6/14	<5.0	5.2	2.1	<10.0	<5.0	<5.0
MW-5	5/6/14	**1720**	**1060**	414	2080	**921**	**48.8**
MW-6	5/6/14	<5.0	6.5	2.8	17.0	<5.0	<5.0
MW-7	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-8	5/6/14	**2500**	<100	<100	1080	**720**	<100
MW-9	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-10	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-11	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-12	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-13	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-14	5/6/14	**1030**	<5.0	1.8	104	**524**	**27.1**
MW-15	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-16	5/6/14	<5.0	<5.0	<5.0	<10.0	**70.5**	<5.0
MW-17	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-18	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
MW-19	5/6/14	<5.0	1.7	<5.0	<10.0	<5.0	<5.0
MW-20	5/6/14	**7420**	**39200**	**2340**	**16500**	**7550**	**538**
MW-21	5/6/14	**5640**	<250	254	6820	**4700**	<250
MW-22	5/6/14	**138**	<5.0	2.0	39.2	**60.3**	<5.0
DW-1	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
DW-2	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0

KLM Environmental, LLC

Phase I- Phase II- Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 4
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

APPENDIX B

Laboratory Data / Sampling Sheets / Historical Well Data

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

May 14, 2014

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: Short Stop
Pace Project No.: 92200412

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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,

Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager

Enclosures

cc: Micah Bennett, KLM

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

CERTIFICATIONS

Project: Short Stop
Pace Project No.: 92200412

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Short Stop
Pace Project No.: 92200412

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92200412001	05678 MW-1R	Water	05/06/14 15:30	05/08/14 09:30
92200412002	05678 MW-2R	Water	05/06/14 15:00	05/08/14 09:30
92200412003	05678 MW-4R	Water	05/06/14 16:00	05/08/14 09:30
92200412004	05678 MW-5	Water	05/06/14 15:45	05/08/14 09:30
92200412005	05678 MW-6	Water	05/06/14 16:15	05/08/14 09:30
92200412006	05678 MW-7	Water	05/06/14 14:30	05/08/14 09:30
92200412007	05678 MW-8	Water	05/06/14 13:30	05/08/14 09:30
92200412008	05678 MW-9	Water	05/06/14 13:00	05/08/14 09:30
92200412009	05678 MW-10	Water	05/06/14 12:45	05/08/14 09:30
92200412010	05678 MW-11	Water	05/06/14 12:15	05/08/14 09:30
92200412011	05678 MW-12	Water	05/06/14 11:45	05/08/14 09:30
92200412012	05678 MW-13	Water	05/06/14 11:30	05/08/14 09:30
92200412013	05678 MW-14	Water	05/06/14 11:00	05/08/14 09:30
92200412014	05678 MW-15	Water	05/06/14 10:00	05/08/14 09:30
92200412015	05678 MW-16	Water	05/06/14 10:45	05/08/14 09:30
92200412016	05678 MW-17	Water	05/06/14 11:15	05/08/14 09:30
92200412017	05678 MW-18	Water	05/06/14 12:00	05/08/14 09:30
92200412018	05678 MW-19	Water	05/06/14 16:30	05/08/14 09:30
92200412019	05678 MW-20	Water	05/06/14 14:45	05/08/14 09:30
92200412020	05678 MW-21	Water	05/06/14 14:15	05/08/14 09:30
92200412021	05678 MW-22	Water	05/06/14 12:30	05/08/14 09:30
92200412022	05678 DW-1	Water	05/06/14 14:00	05/08/14 09:30
92200412023	05678 DW-2	Water	05/06/14 10:30	05/08/14 09:30
92200412024	5678 Duplicate 1	Water	05/06/14 14:50	05/08/14 09:30
92200412025	5678 Duplicate 2	Water	05/06/14 15:05	05/08/14 09:30
92200412026	5678 Field Blank	Water	05/06/14 11:05	05/08/14 09:30
92200412027	5678 Trip Blank	Water	05/06/14 00:00	05/08/14 09:30

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SAMPLE ANALYTE COUNT

Project: Short Stop
Pace Project No.: 92200412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92200412001	05678 MW-1R	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412002	05678 MW-2R	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412003	05678 MW-4R	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412004	05678 MW-5	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412005	05678 MW-6	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412006	05678 MW-7	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412007	05678 MW-8	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412008	05678 MW-9	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412009	05678 MW-10	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412010	05678 MW-11	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412011	05678 MW-12	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412012	05678 MW-13	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412013	05678 MW-14	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412014	05678 MW-15	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412015	05678 MW-16	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412016	05678 MW-17	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412017	05678 MW-18	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412018	05678 MW-19	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412019	05678 MW-20	EPA 8011	JMC	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: Short Stop
Pace Project No.: 92200412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	NU1	20	PASI-C
92200412020	**05678 MW-21**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412021	**05678 MW-22**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412022	**05678 DW-1**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412023	**05678 DW-2**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412024	**5678 Duplicate 1**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412025	**5678 Duplicate 2**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412026	**5678 Field Blank**	EPA 8011	JMC	2	PASI-C
		EPA 8260	NU1	20	PASI-C
92200412027	**5678 Trip Blank**	EPA 8260	NU1	20	PASI-C

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SUMMARY OF DETECTION

Project: Short Stop
Pace Project No.: 92200412

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92200412001	**05678 MW-1R**					
EPA 8011	1,2-Dibromoethane (EDB)	40.3	ug/L	2.0	05/12/14 23:56	
EPA 8260	tert-Amyl Alcohol	37500	ug/L	5000	05/10/14 04:53	
EPA 8260	Benzene	12900	ug/L	1000	05/12/14 13:54	
EPA 8260	tert-Butyl Alcohol	32600	ug/L	5000	05/10/14 04:53	
EPA 8260	1,2-Dichloroethane	287	ug/L	250	05/10/14 04:53	
EPA 8260	Diisopropyl ether	136J	ug/L	250	05/10/14 04:53	
EPA 8260	Ethylbenzene	1020	ug/L	250	05/10/14 04:53	
EPA 8260	Methyl-tert-butyl ether	16600	ug/L	1000	05/12/14 13:54	
EPA 8260	Naphthalene	553	ug/L	250	05/10/14 04:53	
EPA 8260	Toluene	20800	ug/L	1000	05/12/14 13:54	
EPA 8260	Xylene (Total)	9750	ug/L	500	05/10/14 04:53	
EPA 8260	m&p-Xylene	5750	ug/L	500	05/10/14 04:53	
EPA 8260	o-Xylene	4000	ug/L	250	05/10/14 04:53	
92200412002	**05678 MW-2R**					
EPA 8260	Benzene	990	ug/L	50.0	05/10/14 04:06	
EPA 8260	Ethylbenzene	134	ug/L	50.0	05/10/14 04:06	
EPA 8260	Methyl-tert-butyl ether	94.7	ug/L	50.0	05/10/14 04:06	
EPA 8260	Toluene	233	ug/L	50.0	05/10/14 04:06	
EPA 8260	Xylene (Total)	1160	ug/L	100	05/10/14 04:06	
EPA 8260	m&p-Xylene	1060	ug/L	100	05/10/14 04:06	
EPA 8260	o-Xylene	99.9	ug/L	50.0	05/10/14 04:06	
92200412003	**05678 MW-4R**					
EPA 8260	Ethylbenzene	2.1J	ug/L	5.0	05/10/14 02:01	
EPA 8260	Toluene	5.2	ug/L	5.0	05/10/14 02:01	
EPA 8260	m&p-Xylene	8.9J	ug/L	10.0	05/10/14 02:01	
EPA 8260	o-Xylene	4.8J	ug/L	5.0	05/10/14 02:01	
92200412004	**05678 MW-5**					
EPA 8260	Benzene	1720	ug/L	100	05/10/14 04:22	
EPA 8260	Diisopropyl ether	71.4J	ug/L	100	05/10/14 04:22	
EPA 8260	Ethylbenzene	414	ug/L	100	05/10/14 04:22	
EPA 8260	Methyl-tert-butyl ether	921	ug/L	100	05/10/14 04:22	
EPA 8260	Naphthalene	48.8J	ug/L	100	05/10/14 04:22	
EPA 8260	Toluene	1060	ug/L	100	05/10/14 04:22	
EPA 8260	Xylene (Total)	2080	ug/L	200	05/10/14 04:22	
EPA 8260	m&p-Xylene	1650	ug/L	200	05/10/14 04:22	
EPA 8260	o-Xylene	428	ug/L	100	05/10/14 04:22	
92200412005	**05678 MW-6**					
EPA 8260	Ethylbenzene	2.8J	ug/L	5.0	05/10/14 02:17	
EPA 8260	Toluene	6.5	ug/L	5.0	05/10/14 02:17	
EPA 8260	Xylene (Total)	17.0	ug/L	10.0	05/10/14 02:17	
EPA 8260	m&p-Xylene	11.1	ug/L	10.0	05/10/14 02:17	
EPA 8260	o-Xylene	5.9	ug/L	5.0	05/10/14 02:17	
92200412007	**05678 MW-8**					
EPA 8011	1,2-Dibromoethane (EDB)	0.83	ug/L	0.020	05/10/14 11:57	

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SUMMARY OF DETECTION

Project: Short Stop
Pace Project No.: 92200412

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92200412007	**05678 MW-8**					
EPA 8260	tert-Amyl Alcohol	13000	ug/L	2000	05/10/14 04:37	
EPA 8260	Benzene	2500	ug/L	100	05/10/14 04:37	
EPA 8260	tert-Butyl Alcohol	1740J	ug/L	2000	05/10/14 04:37	
EPA 8260	Methyl-tert-butyl ether	720	ug/L	100	05/10/14 04:37	
EPA 8260	Xylene (Total)	1080	ug/L	200	05/10/14 04:37	
EPA 8260	m&p-Xylene	896	ug/L	200	05/10/14 04:37	
EPA 8260	o-Xylene	184	ug/L	100	05/10/14 04:37	
92200412013	**05678 MW-14**					
EPA 8011	1,2-Dibromoethane (EDB)	0.46	ug/L	0.020	05/12/14 22:13	
EPA 8260	tert-Amyl Alcohol	3410	ug/L	100	05/10/14 06:58	
EPA 8260	Benzene	1030	ug/L	50.0	05/12/14 13:06	
EPA 8260	tert-Butyl Alcohol	720	ug/L	100	05/10/14 06:58	
EPA 8260	1,2-Dichloroethane	13.9	ug/L	5.0	05/10/14 06:58	
EPA 8260	Diisopropyl ether	11.5	ug/L	5.0	05/10/14 06:58	
EPA 8260	Ethylbenzene	1.8J	ug/L	5.0	05/10/14 06:58	
EPA 8260	Methyl-tert-butyl ether	524	ug/L	50.0	05/12/14 13:06	
EPA 8260	Naphthalene	27.1	ug/L	5.0	05/10/14 06:58	
EPA 8260	Xylene (Total)	104	ug/L	10.0	05/10/14 06:58	
EPA 8260	m&p-Xylene	71.8	ug/L	10.0	05/10/14 06:58	
EPA 8260	o-Xylene	32.3	ug/L	5.0	05/10/14 06:58	
92200412015	**05678 MW-16**					
EPA 8260	Methyl-tert-butyl ether	70.5	ug/L	5.0	05/10/14 07:29	
92200412018	**05678 MW-19**					
EPA 8260	Toluene	1.7J	ug/L	5.0	05/10/14 06:11	
EPA 8260	o-Xylene	1.7J	ug/L	5.0	05/10/14 06:11	
92200412019	**05678 MW-20**					
EPA 8011	1,2-Dibromoethane (EDB)	29.0	ug/L	0.99	05/13/14 00:17	
EPA 8260	Benzene	7420	ug/L	1250	05/10/14 09:34	
EPA 8260	Ethylbenzene	2340	ug/L	1250	05/10/14 09:34	
EPA 8260	Methyl-tert-butyl ether	7550	ug/L	1250	05/10/14 09:34	
EPA 8260	Naphthalene	538J	ug/L	1250	05/10/14 09:34	
EPA 8260	Toluene	39200	ug/L	1250	05/10/14 09:34	
EPA 8260	Xylene (Total)	16500	ug/L	2500	05/10/14 09:34	
EPA 8260	m&p-Xylene	11200	ug/L	2500	05/10/14 09:34	
EPA 8260	o-Xylene	5370	ug/L	1250	05/10/14 09:34	
92200412020	**05678 MW-21**					
EPA 8011	1,2-Dibromoethane (EDB)	0.92	ug/L	0.020	05/10/14 20:52	
EPA 8260	tert-Amyl Alcohol	27900	ug/L	5000	05/10/14 09:19	
EPA 8260	Benzene	5640	ug/L	250	05/10/14 09:19	
EPA 8260	tert-Butyl Alcohol	3640J	ug/L	5000	05/10/14 09:19	
EPA 8260	Ethylbenzene	254	ug/L	250	05/10/14 09:19	
EPA 8260	Methyl-tert-butyl ether	4700	ug/L	250	05/10/14 09:19	
EPA 8260	Xylene (Total)	6820	ug/L	500	05/10/14 09:19	
EPA 8260	m&p-Xylene	5700	ug/L	500	05/10/14 09:19	

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SUMMARY OF DETECTION

Project: Short Stop
Pace Project No.: 92200412

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92200412020	**05678 MW-21**					
EPA 8260	o-Xylene	1120	ug/L	250	05/10/14 09:19	
92200412021	**05678 MW-22**					
EPA 8260	tert-Amyl Alcohol	1250	ug/L	100	05/10/14 07:45	
EPA 8260	Benzene	138	ug/L	5.0	05/10/14 07:45	
EPA 8260	tert-Butyl Alcohol	147	ug/L	100	05/10/14 07:45	
EPA 8260	Ethylbenzene	2.0J	ug/L	5.0	05/10/14 07:45	
EPA 8260	Methyl-tert-butyl ether	60.3	ug/L	5.0	05/10/14 07:45	
EPA 8260	Xylene (Total)	39.2	ug/L	10.0	05/10/14 07:45	
EPA 8260	m&p-Xylene	39.2	ug/L	10.0	05/10/14 07:45	
EPA 8260	o-Xylene	3.3J	ug/L	5.0	05/10/14 07:45	
92200412024	**5678 Duplicate 1**					
EPA 8011	1,2-Dibromoethane (EDB)	34.0	ug/L	0.99	05/13/14 00:37	
EPA 8260	tert-Amyl Alcohol	6440	ug/L	500	05/10/14 08:16	
EPA 8260	tert-Amylmethyl ether	62.0	ug/L	50.0	05/10/14 08:16	
EPA 8260	Benzene	7250	ug/L	2000	05/12/14 22:18	
EPA 8260	tert-Butyl Alcohol	1810	ug/L	500	05/10/14 08:16	
EPA 8260	1,2-Dichloroethane	145	ug/L	25.0	05/10/14 08:16	
EPA 8260	Diisopropyl ether	153	ug/L	25.0	05/10/14 08:16	
EPA 8260	Ethylbenzene	2320	ug/L	2000	05/12/14 22:18	
EPA 8260	Methyl-tert-butyl ether	7800	ug/L	2000	05/12/14 22:18	
EPA 8260	Naphthalene	585	ug/L	25.0	05/10/14 08:16	
EPA 8260	Toluene	37900	ug/L	2000	05/12/14 22:18	
EPA 8260	Xylene (Total)	16000	ug/L	4000	05/12/14 22:18	
EPA 8260	m&p-Xylene	10900	ug/L	4000	05/12/14 22:18	
EPA 8260	o-Xylene	5160	ug/L	2000	05/12/14 22:18	
92200412025	**5678 Duplicate 2**					
EPA 8260	tert-Amyl Alcohol	174	ug/L	100	05/10/14 08:32	
EPA 8260	Benzene	983	ug/L	50.0	05/12/14 13:38	
EPA 8260	Diisopropyl ether	4.0J	ug/L	5.0	05/10/14 08:32	
EPA 8260	Ethylbenzene	137	ug/L	5.0	05/10/14 08:32	
EPA 8260	Methyl-tert-butyl ether	90.2	ug/L	5.0	05/10/14 08:32	
EPA 8260	Naphthalene	4.5J	ug/L	5.0	05/10/14 08:32	
EPA 8260	Toluene	156	ug/L	5.0	05/10/14 08:32	
EPA 8260	Xylene (Total)	1080	ug/L	100	05/12/14 13:38	
EPA 8260	m&p-Xylene	999	ug/L	100	05/12/14 13:38	
EPA 8260	o-Xylene	78.4	ug/L	5.0	05/10/14 08:32	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92200412

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: KLM
Date: May 14, 2014

General Information:
26 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/27557

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- 05678 MW-1R (Lab ID: 92200412001)
  - 1-Chloro-2-bromopropane (S)

QC Batch: OEXT/27576

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- 05678 MW-20 (Lab ID: 92200412019)
  - 1-Chloro-2-bromopropane (S)
- 5678 Duplicate 1 (Lab ID: 92200412024)
  - 1-Chloro-2-bromopropane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/27576

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92200412020

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- MS (Lab ID: 1196222)
  - 1,2-Dibromoethane (EDB)

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92200412

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: KLM
Date: May 14, 2014

QC Batch: OEXT/27576

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92200412020

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 1196223)
  - 1,2-Dibromoethane (EDB)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92200412

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: May 14, 2014

General Information:
27 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/26761

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92200412009

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1196459)
  - tert-Butyl Alcohol
  - tert-Butyl Formate
- MSD (Lab ID: 1196460)
  - tert-Butyl Alcohol
  - tert-Butyl Formate

QC Batch: MSV/26764

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92200412016

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1196457)
  - tert-Butyl Alcohol
  - tert-Butyl Formate
- MSD (Lab ID: 1196458)

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92200412

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: May 14, 2014

QC Batch: MSV/26764

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92200412016

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- 1,2-Dichloroethane
- Benzene
- Methyl-tert-butyl ether
- Toluene
- tert-Amyl Alcohol
- tert-Butyl Alcohol
- tert-Butyl Formate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-1R **Lab ID: 92200412001** Collected: 05/06/14 15:30 Received: 05/08/14 09:30 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)	**40.3**	ug/L	2.0	2.0	100	05/09/14 15:45	05/12/14 23:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		100	05/09/14 15:45	05/12/14 23:56	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**37500**	ug/L	5000	3840	50		05/10/14 04:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		05/10/14 04:53	994-05-8	
Benzene	**12900**	ug/L	1000	340	200		05/12/14 13:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		05/10/14 04:53	624-95-3	
tert-Butyl Alcohol	**32600**	ug/L	5000	2880	50		05/10/14 04:53	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		05/10/14 04:53	762-75-4	
1,2-Dichloroethane	**287**	ug/L	250	90.0	50		05/10/14 04:53	107-06-2	
Diisopropyl ether	**136J**	ug/L	250	85.0	50		05/10/14 04:53	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		05/10/14 04:53	64-17-5	
Ethylbenzene	**1020**	ug/L	250	80.0	50		05/10/14 04:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		05/10/14 04:53	637-92-3	
Methyl-tert-butyl ether	**16600**	ug/L	1000	340	200		05/12/14 13:54	1634-04-4	
Naphthalene	**553**	ug/L	250	100	50		05/10/14 04:53	91-20-3	
Toluene	**20800**	ug/L	1000	320	200		05/12/14 13:54	108-88-3	
Xylene (Total)	**9750**	ug/L	500	135	50		05/10/14 04:53	1330-20-7	
m&p-Xylene	**5750**	ug/L	500	155	50		05/10/14 04:53	179601-23-1	
o-Xylene	**4000**	ug/L	250	80.0	50		05/10/14 04:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		50		05/10/14 04:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		50		05/10/14 04:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		50		05/10/14 04:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-2R **Lab ID: 92200412002** Collected: 05/06/14 15:00 Received: 05/08/14 09:30 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	05/09/14 15:45	05/10/14 07:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	05/09/14 15:45	05/10/14 07:07	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	1000	768	10		05/10/14 04:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		05/10/14 04:06	994-05-8	
Benzene	**990**	ug/L	50.0	17.0	10		05/10/14 04:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		05/10/14 04:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		05/10/14 04:06	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		05/10/14 04:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		05/10/14 04:06	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		05/10/14 04:06	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		05/10/14 04:06	64-17-5	
Ethylbenzene	**134**	ug/L	50.0	16.0	10		05/10/14 04:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		05/10/14 04:06	637-92-3	
Methyl-tert-butyl ether	**94.7**	ug/L	50.0	17.0	10		05/10/14 04:06	1634-04-4	
Naphthalene	ND	ug/L	50.0	20.0	10		05/10/14 04:06	91-20-3	
Toluene	**233**	ug/L	50.0	16.0	10		05/10/14 04:06	108-88-3	
Xylene (Total)	**1160**	ug/L	100	27.0	10		05/10/14 04:06	1330-20-7	
m&p-Xylene	**1060**	ug/L	100	31.0	10		05/10/14 04:06	179601-23-1	
o-Xylene	**99.9**	ug/L	50.0	16.0	10		05/10/14 04:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		10		05/10/14 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		10		05/10/14 04:06	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		05/10/14 04:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-4R **Lab ID: 92200412003** Collected: 05/06/14 16:00 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 10:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/09/14 16:07	05/10/14 10:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 02:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 02:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 02:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 02:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 02:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 02:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 02:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 02:01	64-17-5	
Ethylbenzene	**2.1J**	ug/L	5.0	1.6	1		05/10/14 02:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 02:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 02:01	91-20-3	
Toluene	**5.2**	ug/L	5.0	1.6	1		05/10/14 02:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 02:01	1330-20-7	
m&p-Xylene	**8.9J**	ug/L	10.0	3.1	1		05/10/14 02:01	179601-23-1	
o-Xylene	**4.8J**	ug/L	5.0	1.6	1		05/10/14 02:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 02:01	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/10/14 02:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 02:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-5 **Lab ID: 92200412004** Collected: 05/06/14 15:45 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 10:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	136	%	60-140		1	05/09/14 16:07	05/10/14 10:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		05/10/14 04:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		05/10/14 04:22	994-05-8	
Benzene	**1720**	ug/L	100	34.0	20		05/10/14 04:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		05/10/14 04:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		05/10/14 04:22	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		05/10/14 04:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		05/10/14 04:22	107-06-2	
Diisopropyl ether	**71.4J**	ug/L	100	34.0	20		05/10/14 04:22	108-20-3	
Ethanol	ND	ug/L	4000	2760	20		05/10/14 04:22	64-17-5	
Ethylbenzene	**414**	ug/L	100	32.0	20		05/10/14 04:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		05/10/14 04:22	637-92-3	
Methyl-tert-butyl ether	**921**	ug/L	100	34.0	20		05/10/14 04:22	1634-04-4	
Naphthalene	**48.8J**	ug/L	100	40.0	20		05/10/14 04:22	91-20-3	
Toluene	**1060**	ug/L	100	32.0	20		05/10/14 04:22	108-88-3	
Xylene (Total)	**2080**	ug/L	200	54.0	20		05/10/14 04:22	1330-20-7	
m&p-Xylene	**1650**	ug/L	200	62.0	20		05/10/14 04:22	179601-23-1	
o-Xylene	**428**	ug/L	100	32.0	20		05/10/14 04:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		20		05/10/14 04:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		20		05/10/14 04:22	17060-07-0	
Toluene-d8 (S)	99	%	70-130		20		05/10/14 04:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-6 **Lab ID: 92200412005** Collected: 05/06/14 16:15 Received: 05/08/14 09:30 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	05/12/14 00:11	05/12/14 21:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/12/14 00:11	05/12/14 21:31	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 02:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 02:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 02:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 02:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 02:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 02:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 02:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:17	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 02:17	64-17-5	
Ethylbenzene	**2.8J**	ug/L	5.0	1.6	1		05/10/14 02:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 02:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 02:17	91-20-3	
Toluene	**6.5**	ug/L	5.0	1.6	1		05/10/14 02:17	108-88-3	
Xylene (Total)	**17.0**	ug/L	10.0	2.7	1		05/10/14 02:17	1330-20-7	
m&p-Xylene	**11.1**	ug/L	10.0	3.1	1		05/10/14 02:17	179601-23-1	
o-Xylene	**5.9**	ug/L	5.0	1.6	1		05/10/14 02:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/10/14 02:17	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 02:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 02:17	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-7 **Lab ID: 92200412006** Collected: 05/06/14 14:30 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 11:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	05/09/14 16:07	05/10/14 11:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/12/14 17:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/12/14 17:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/12/14 17:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/12/14 17:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/12/14 17:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/12/14 17:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/12/14 17:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/12/14 17:35	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/12/14 17:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/12/14 17:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/12/14 17:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/12/14 17:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/12/14 17:35	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/12/14 17:35	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/12/14 17:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/12/14 17:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/12/14 17:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/12/14 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/12/14 17:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/12/14 17:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-8 **Lab ID: 92200412007** Collected: 05/06/14 13:30 Received: 05/08/14 09:30 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)	**0.83**	ug/L	0.020	0.020	1	05/09/14 16:07	05/10/14 11:57	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/09/14 16:07	05/10/14 11:57	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**13000**	ug/L	2000	1540	20		05/10/14 04:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		05/10/14 04:37	994-05-8	
Benzene	**2500**	ug/L	100	34.0	20		05/10/14 04:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		05/10/14 04:37	624-95-3	
tert-Butyl Alcohol	**1740J**	ug/L	2000	1150	20		05/10/14 04:37	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		05/10/14 04:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		05/10/14 04:37	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		05/10/14 04:37	108-20-3	
Ethanol	ND	ug/L	4000	2760	20		05/10/14 04:37	64-17-5	
Ethylbenzene	ND	ug/L	100	32.0	20		05/10/14 04:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		05/10/14 04:37	637-92-3	
Methyl-tert-butyl ether	**720**	ug/L	100	34.0	20		05/10/14 04:37	1634-04-4	
Naphthalene	ND	ug/L	100	40.0	20		05/10/14 04:37	91-20-3	
Toluene	ND	ug/L	100	32.0	20		05/10/14 04:37	108-88-3	
Xylene (Total)	**1080**	ug/L	200	54.0	20		05/10/14 04:37	1330-20-7	
m&p-Xylene	**896**	ug/L	200	62.0	20		05/10/14 04:37	179601-23-1	
o-Xylene	**184**	ug/L	100	32.0	20		05/10/14 04:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		20		05/10/14 04:37	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		20		05/10/14 04:37	17060-07-0	
Toluene-d8 (S)	98	%	70-130		20		05/10/14 04:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-9 **Lab ID: 92200412008** Collected: 05/06/14 13:00 Received: 05/08/14 09:30 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	05/12/14 00:11	05/12/14 21:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	05/12/14 00:11	05/12/14 21:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 02:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 02:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 02:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 02:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 02:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 02:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 02:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 02:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 02:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 02:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 02:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 02:32	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 02:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 02:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 02:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/10/14 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/10/14 02:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 02:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-10 **Lab ID: 92200412009** Collected: 05/06/14 12:45 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 12:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/09/14 16:07	05/10/14 12:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 00:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 00:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 00:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 00:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 00:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 00:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 00:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 00:43	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 00:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 00:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 00:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 00:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 00:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 00:43	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 00:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 00:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 00:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 00:43	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 00:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 00:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-11 **Lab ID: 92200412010** Collected: 05/06/14 12:15 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 12:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	78	%	60-140		1	05/09/14 16:07	05/10/14 12:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 02:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 02:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 02:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 02:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 02:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 02:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 02:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:48	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 02:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 02:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 02:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 02:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 02:48	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 02:48	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 02:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 02:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 02:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 02:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/14 02:48	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/10/14 02:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-12 **Lab ID: 92200412011** Collected: 05/06/14 11:45 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 13:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	73	%	60-140		1	05/09/14 16:07	05/10/14 13:19	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 03:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 03:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 03:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 03:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 03:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 03:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 03:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 03:04	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 03:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 03:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 03:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 03:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 03:04	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 03:04	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 03:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 03:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 03:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 03:04	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 03:04	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 03:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-13 **Lab ID: 92200412012** Collected: 05/06/14 11:30 Received: 05/08/14 09:30 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	05/09/14 16:07	05/10/14 13:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/09/14 16:07	05/10/14 13:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 06:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 06:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 06:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 06:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 06:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 06:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 06:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 06:42	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 06:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 06:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 06:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 06:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 06:42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 06:42	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 06:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 06:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 06:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 06:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/14 06:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 06:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-14 **Lab ID: 92200412013** Collected: 05/06/14 11:00 Received: 05/08/14 09:30 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)	**0.46**	ug/L	0.020	0.020	1	05/12/14 00:11	05/12/14 22:13	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	05/12/14 00:11	05/12/14 22:13	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3410**	ug/L	100	76.8	1		05/10/14 06:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 06:58	994-05-8	
Benzene	**1030**	ug/L	50.0	17.0	10		05/12/14 13:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 06:58	624-95-3	
tert-Butyl Alcohol	**720**	ug/L	100	57.7	1		05/10/14 06:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 06:58	762-75-4	
1,2-Dichloroethane	**13.9**	ug/L	5.0	1.8	1		05/10/14 06:58	107-06-2	
Diisopropyl ether	**11.5**	ug/L	5.0	1.7	1		05/10/14 06:58	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 06:58	64-17-5	
Ethylbenzene	**1.8J**	ug/L	5.0	1.6	1		05/10/14 06:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 06:58	637-92-3	
Methyl-tert-butyl ether	**524**	ug/L	50.0	17.0	10		05/12/14 13:06	1634-04-4	
Naphthalene	**27.1**	ug/L	5.0	2.0	1		05/10/14 06:58	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 06:58	108-88-3	
Xylene (Total)	**104**	ug/L	10.0	2.7	1		05/10/14 06:58	1330-20-7	
m&p-Xylene	**71.8**	ug/L	10.0	3.1	1		05/10/14 06:58	179601-23-1	
o-Xylene	**32.3**	ug/L	5.0	1.6	1		05/10/14 06:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/10/14 06:58	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 06:58	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/10/14 06:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-15 **Lab ID: 92200412014** Collected: 05/06/14 10:00 Received: 05/08/14 09:30 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	05/09/14 16:08	05/10/14 15:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	71	%	60-140		1	05/09/14 16:08	05/10/14 15:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 07:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 07:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 07:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 07:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 07:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 07:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 07:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 07:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 07:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 07:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 07:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 07:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 07:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 07:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 07:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 07:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 07:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 07:14	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		05/10/14 07:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 07:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-16 **Lab ID: 92200412015** Collected: 05/06/14 10:45 Received: 05/08/14 09:30 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	05/09/14 16:08	05/10/14 15:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	65	%	60-140		1	05/09/14 16:08	05/10/14 15:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 07:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 07:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 07:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 07:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 07:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 07:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 07:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 07:29	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 07:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 07:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 07:29	637-92-3	
Methyl-tert-butyl ether	**70.5**	ug/L	5.0	1.7	1		05/10/14 07:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 07:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 07:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 07:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 07:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 07:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 07:29	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 07:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 07:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-17 **Lab ID: 92200412016** Collected: 05/06/14 11:15 Received: 05/08/14 09:30 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	05/12/14 00:11	05/12/14 22:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/12/14 00:11	05/12/14 22:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 05:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 05:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 05:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 05:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 05:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 05:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 05:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:40	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 05:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 05:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 05:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 05:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 05:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 05:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 05:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 05:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/10/14 05:40	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/10/14 05:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 05:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-18 **Lab ID: 92200412017** Collected: 05/06/14 12:00 Received: 05/08/14 09:30 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	05/09/14 16:08	05/10/14 16:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/09/14 16:08	05/10/14 16:23	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 05:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 05:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 05:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 05:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 05:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 05:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 05:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:56	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 05:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 05:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 05:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 05:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 05:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 05:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 05:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 05:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 05:56	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		05/10/14 05:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 05:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-19 **Lab ID: 92200412018** Collected: 05/06/14 16:30 Received: 05/08/14 09:30 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	05/09/14 16:08	05/10/14 16:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	05/09/14 16:08	05/10/14 16:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 06:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 06:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 06:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 06:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 06:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 06:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 06:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 06:11	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 06:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 06:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 06:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 06:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 06:11	91-20-3	
Toluene	**1.7J**	ug/L	5.0	1.6	1		05/10/14 06:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 06:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 06:11	179601-23-1	
o-Xylene	**1.7J**	ug/L	5.0	1.6	1		05/10/14 06:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/10/14 06:11	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 06:11	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/10/14 06:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-20 **Lab ID: 92200412019** Collected: 05/06/14 14:45 Received: 05/08/14 09:30 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)	**29.0**	ug/L	0.99	0.99	50	05/10/14 09:41	05/13/14 00:17	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		50	05/10/14 09:41	05/13/14 00:17	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	25000	19200	250		05/10/14 09:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	850	250		05/10/14 09:34	994-05-8	
Benzene	**7420**	ug/L	1250	425	250		05/10/14 09:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	8020	250		05/10/14 09:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	14400	250		05/10/14 09:34	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	1820	250		05/10/14 09:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	450	250		05/10/14 09:34	107-06-2	
Diisopropyl ether	ND	ug/L	1250	425	250		05/10/14 09:34	108-20-3	
Ethanol	ND	ug/L	50000	34400	250		05/10/14 09:34	64-17-5	
Ethylbenzene	**2340**	ug/L	1250	400	250		05/10/14 09:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	900	250		05/10/14 09:34	637-92-3	
Methyl-tert-butyl ether	**7550**	ug/L	1250	425	250		05/10/14 09:34	1634-04-4	
Naphthalene	**538J**	ug/L	1250	500	250		05/10/14 09:34	91-20-3	
Toluene	**39200**	ug/L	1250	400	250		05/10/14 09:34	108-88-3	
Xylene (Total)	**16500**	ug/L	2500	675	250		05/10/14 09:34	1330-20-7	
m&p-Xylene	**11200**	ug/L	2500	775	250		05/10/14 09:34	179601-23-1	
o-Xylene	**5370**	ug/L	1250	400	250		05/10/14 09:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		250		05/10/14 09:34	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		250		05/10/14 09:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130		250		05/10/14 09:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-21 **Lab ID: 92200412020** Collected: 05/06/14 14:15 Received: 05/08/14 09:30 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)	**0.92**	ug/L	0.020	0.020	1	05/10/14 09:41	05/10/14 20:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	05/10/14 09:41	05/10/14 20:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**27900**	ug/L	5000	3840	50		05/10/14 09:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		05/10/14 09:19	994-05-8	
Benzene	**5640**	ug/L	250	85.0	50		05/10/14 09:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		05/10/14 09:19	624-95-3	
tert-Butyl Alcohol	**3640J**	ug/L	5000	2880	50		05/10/14 09:19	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		05/10/14 09:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		05/10/14 09:19	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		05/10/14 09:19	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		05/10/14 09:19	64-17-5	
Ethylbenzene	**254**	ug/L	250	80.0	50		05/10/14 09:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		05/10/14 09:19	637-92-3	
Methyl-tert-butyl ether	**4700**	ug/L	250	85.0	50		05/10/14 09:19	1634-04-4	
Naphthalene	ND	ug/L	250	100	50		05/10/14 09:19	91-20-3	
Toluene	ND	ug/L	250	80.0	50		05/10/14 09:19	108-88-3	
Xylene (Total)	**6820**	ug/L	500	135	50		05/10/14 09:19	1330-20-7	
m&p-Xylene	**5700**	ug/L	500	155	50		05/10/14 09:19	179601-23-1	
o-Xylene	**1120**	ug/L	250	80.0	50		05/10/14 09:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		50		05/10/14 09:19	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		50		05/10/14 09:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		50		05/10/14 09:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 MW-22 **Lab ID: 92200412021** Collected: 05/06/14 12:30 Received: 05/08/14 09:30 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	05/10/14 09:41	05/10/14 21:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/10/14 09:41	05/10/14 21:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1250**	ug/L	100	76.8	1		05/10/14 07:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 07:45	994-05-8	
Benzene	**138**	ug/L	5.0	1.7	1		05/10/14 07:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 07:45	624-95-3	
tert-Butyl Alcohol	**147**	ug/L	100	57.7	1		05/10/14 07:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 07:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 07:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 07:45	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 07:45	64-17-5	
Ethylbenzene	**2.0J**	ug/L	5.0	1.6	1		05/10/14 07:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 07:45	637-92-3	
Methyl-tert-butyl ether	**60.3**	ug/L	5.0	1.7	1		05/10/14 07:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 07:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 07:45	108-88-3	
Xylene (Total)	**39.2**	ug/L	10.0	2.7	1		05/10/14 07:45	1330-20-7	
m&p-Xylene	**39.2**	ug/L	10.0	3.1	1		05/10/14 07:45	179601-23-1	
o-Xylene	**3.3J**	ug/L	5.0	1.6	1		05/10/14 07:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/10/14 07:45	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/14 07:45	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 07:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 DW-1 **Lab ID: 92200412022** Collected: 05/06/14 14:00 Received: 05/08/14 09:30 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	05/10/14 09:41	05/10/14 22:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/10/14 09:41	05/10/14 22:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 08:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 08:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 08:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 08:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 08:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 08:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 08:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 08:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 08:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 08:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 08:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 08:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 08:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 08:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 08:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 08:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 08:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 08:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/14 08:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/10/14 08:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 05678 DW-2 **Lab ID: 92200412023** Collected: 05/06/14 10:30 Received: 05/08/14 09:30 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	05/10/14 09:41	05/10/14 22:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/10/14 09:41	05/10/14 22:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 06:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 06:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 06:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 06:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 06:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 06:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 06:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 06:27	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 06:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 06:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 06:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 06:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 06:27	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 06:27	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 06:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 06:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 06:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/10/14 06:27	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 06:27	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/10/14 06:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 5678 Duplicate 1 **Lab ID: 92200412024** Collected: 05/06/14 14:50 Received: 05/08/14 09:30 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)	**34.0**	ug/L	0.99	0.99	50	05/10/14 09:41	05/13/14 00:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		50	05/10/14 09:41	05/13/14 00:37	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**6440**	ug/L	500	384	5		05/10/14 08:16	75-85-4	
tert-Amylmethyl ether	**62.0**	ug/L	50.0	17.0	5		05/10/14 08:16	994-05-8	
Benzene	**7250**	ug/L	2000	680	400		05/12/14 22:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		05/10/14 08:16	624-95-3	
tert-Butyl Alcohol	**1810**	ug/L	500	288	5		05/10/14 08:16	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		05/10/14 08:16	762-75-4	
1,2-Dichloroethane	**145**	ug/L	25.0	9.0	5		05/10/14 08:16	107-06-2	
Diisopropyl ether	**153**	ug/L	25.0	8.5	5		05/10/14 08:16	108-20-3	
Ethanol	ND	ug/L	1000	689	5		05/10/14 08:16	64-17-5	
Ethylbenzene	**2320**	ug/L	2000	640	400		05/12/14 22:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		05/10/14 08:16	637-92-3	
Methyl-tert-butyl ether	**7800**	ug/L	2000	680	400		05/12/14 22:18	1634-04-4	
Naphthalene	**585**	ug/L	25.0	10.0	5		05/10/14 08:16	91-20-3	
Toluene	**37900**	ug/L	2000	640	400		05/12/14 22:18	108-88-3	
Xylene (Total)	**16000**	ug/L	4000	1080	400		05/12/14 22:18	1330-20-7	
m&p-Xylene	**10900**	ug/L	4000	1240	400		05/12/14 22:18	179601-23-1	
o-Xylene	**5160**	ug/L	2000	640	400		05/12/14 22:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		05/10/14 08:16	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		5		05/10/14 08:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		5		05/10/14 08:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 5678 Duplicate 2 **Lab ID: 92200412025** Collected: 05/06/14 15:05 Received: 05/08/14 09:30 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	05/10/14 09:41	05/10/14 23:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	116	%	60-140		1	05/10/14 09:41	05/10/14 23:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**174**	ug/L	100	76.8	1		05/10/14 08:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 08:32	994-05-8	
Benzene	**983**	ug/L	50.0	17.0	10		05/12/14 13:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 08:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 08:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 08:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 08:32	107-06-2	
Diisopropyl ether	**4.0J**	ug/L	5.0	1.7	1		05/10/14 08:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 08:32	64-17-5	
Ethylbenzene	**137**	ug/L	5.0	1.6	1		05/10/14 08:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 08:32	637-92-3	
Methyl-tert-butyl ether	**90.2**	ug/L	5.0	1.7	1		05/10/14 08:32	1634-04-4	
Naphthalene	**4.5J**	ug/L	5.0	2.0	1		05/10/14 08:32	91-20-3	
Toluene	**156**	ug/L	5.0	1.6	1		05/10/14 08:32	108-88-3	
Xylene (Total)	**1080**	ug/L	100	27.0	10		05/12/14 13:38	1330-20-7	
m&p-Xylene	**999**	ug/L	100	31.0	10		05/12/14 13:38	179601-23-1	
o-Xylene	**78.4**	ug/L	5.0	1.6	1		05/10/14 08:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/10/14 08:32	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		05/10/14 08:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/10/14 08:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 5678 Field Blank **Lab ID: 92200412026** Collected: 05/06/14 11:05 Received: 05/08/14 09:30 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	05/10/14 09:42	05/10/14 23:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	05/10/14 09:42	05/10/14 23:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 05:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 05:09	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 05:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 05:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 05:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 05:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 05:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:09	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 05:09	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 05:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 05:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 05:09	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 05:09	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 05:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 05:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 05:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/10/14 05:09	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/10/14 05:09	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/10/14 05:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92200412

Sample: 5678 Trip Blank **Lab ID: 92200412027** Collected: 05/06/14 00:00 Received: 05/08/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/10/14 05:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/10/14 05:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/10/14 05:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/10/14 05:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/10/14 05:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/10/14 05:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/10/14 05:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:24	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/10/14 05:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/10/14 05:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/10/14 05:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/10/14 05:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/10/14 05:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/10/14 05:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/10/14 05:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/10/14 05:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/10/14 05:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/10/14 05:24	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/14 05:24	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/10/14 05:24	2037-26-5	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: MSV/26761 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92200412001, 92200412002, 92200412003, 92200412004, 92200412005, 92200412007, 92200412008, 92200412009, 92200412010, 92200412011

METHOD BLANK: 1195747 Matrix: Water
Associated Lab Samples: 92200412001, 92200412002, 92200412003, 92200412004, 92200412005, 92200412007, 92200412008, 92200412009, 92200412010, 92200412011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/09/14 23:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/09/14 23:25	
Benzene	ug/L	ND	5.0	05/09/14 23:25	
Diisopropyl ether	ug/L	ND	5.0	05/09/14 23:25	
Ethanol	ug/L	ND	200	05/09/14 23:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/09/14 23:25	
Ethylbenzene	ug/L	ND	5.0	05/09/14 23:25	
m&p-Xylene	ug/L	ND	10.0	05/09/14 23:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/09/14 23:25	
Naphthalene	ug/L	ND	5.0	05/09/14 23:25	
o-Xylene	ug/L	ND	5.0	05/09/14 23:25	
tert-Amyl Alcohol	ug/L	ND	100	05/09/14 23:25	
tert-Amylmethyl ether	ug/L	ND	10.0	05/09/14 23:25	
tert-Butyl Alcohol	ug/L	ND	100	05/09/14 23:25	
tert-Butyl Formate	ug/L	ND	50.0	05/09/14 23:25	
Toluene	ug/L	ND	5.0	05/09/14 23:25	
Xylene (Total)	ug/L	ND	10.0	05/09/14 23:25	
1,2-Dichloroethane-d4 (S)	%	98	70-130	05/09/14 23:25	
4-Bromofluorobenzene (S)	%	101	70-130	05/09/14 23:25	
Toluene-d8 (S)	%	100	70-130	05/09/14 23:25	

LABORATORY CONTROL SAMPLE: 1195748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.1	106	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Benzene	ug/L	50	56.5	113	70-130	
Diisopropyl ether	ug/L	50	50.1	100	70-130	
Ethanol	ug/L	2000	2160	108	70-130	
Ethyl-tert-butyl ether	ug/L	100	90.6	91	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	52.9	106	70-130	
Naphthalene	ug/L	50	54.7	109	70-130	
o-Xylene	ug/L	50	51.6	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1160	116	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	550	110	70-130	
tert-Butyl Formate	ug/L	400	419	105	70-130	
Toluene	ug/L	50	53.5	107	70-130	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

LABORATORY CONTROL SAMPLE: 1195748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196459 1196460

Parameter	Units	92200412009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	54.5	53.8	109	108	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1030	999	103	100	70-130	3	30	
Benzene	ug/L	ND	50	50	59.3	57.4	119	115	70-130	3	30	
Diisopropyl ether	ug/L	ND	50	50	52.3	51.9	105	104	70-130	1	30	
Ethanol	ug/L	ND	2000	2000	1830	1920	91	96	70-130	5	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	94.2	93.3	94	93	70-130	1	30	
Ethylbenzene	ug/L	ND	50	50	52.3	51.0	105	102	70-130	3	30	
m&p-Xylene	ug/L	ND	100	100	106	104	106	104	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	54.6	54.0	109	108	70-130	1	30	
Naphthalene	ug/L	ND	50	50	52.0	49.5	104	99	70-130	5	30	
o-Xylene	ug/L	ND	50	50	52.2	51.0	104	102	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1140	1090	114	109	70-130	5	30	
tert-Amylmethyl ether	ug/L	ND	100	100	107	105	107	105	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	500	500	737	726	147	145	70-130	2	30	M0
tert-Butyl Formate	ug/L	ND	400	400	27.3J	13.0J	7	3	70-130		30	M0
Toluene	ug/L	ND	50	50	54.7	53.6	109	107	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: MSV/26764 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92200412012, 92200412013, 92200412014, 92200412015, 92200412016, 92200412017, 92200412018, 92200412019, 92200412020, 92200412021, 92200412022, 92200412023, 92200412024, 92200412025, 92200412026, 92200412027

METHOD BLANK: 1195799 Matrix: Water
Associated Lab Samples: 92200412012, 92200412013, 92200412014, 92200412015, 92200412016, 92200412017, 92200412018, 92200412019, 92200412020, 92200412021, 92200412022, 92200412023, 92200412024, 92200412025, 92200412026, 92200412027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/09/14 23:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/09/14 23:41	
Benzene	ug/L	ND	5.0	05/09/14 23:41	
Diisopropyl ether	ug/L	ND	5.0	05/09/14 23:41	
Ethanol	ug/L	ND	200	05/09/14 23:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/09/14 23:41	
Ethylbenzene	ug/L	ND	5.0	05/09/14 23:41	
m&p-Xylene	ug/L	ND	10.0	05/09/14 23:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/09/14 23:41	
Naphthalene	ug/L	ND	5.0	05/09/14 23:41	
o-Xylene	ug/L	ND	5.0	05/09/14 23:41	
tert-Amyl Alcohol	ug/L	ND	100	05/09/14 23:41	
tert-Amylmethyl ether	ug/L	ND	10.0	05/09/14 23:41	
tert-Butyl Alcohol	ug/L	ND	100	05/09/14 23:41	
tert-Butyl Formate	ug/L	ND	50.0	05/09/14 23:41	
Toluene	ug/L	ND	5.0	05/09/14 23:41	
Xylene (Total)	ug/L	ND	10.0	05/09/14 23:41	
1,2-Dichloroethane-d4 (S)	%	96	70-130	05/09/14 23:41	
4-Bromofluorobenzene (S)	%	102	70-130	05/09/14 23:41	
Toluene-d8 (S)	%	99	70-130	05/09/14 23:41	

LABORATORY CONTROL SAMPLE: 1195800

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	989	99	70-130	
Benzene	ug/L	50	53.7	107	70-130	
Diisopropyl ether	ug/L	50	48.0	96	70-130	
Ethanol	ug/L	2000	1580	79	70-130	
Ethyl-tert-butyl ether	ug/L	100	86.5	86	70-130	
Ethylbenzene	ug/L	50	48.2	96	70-130	
m&p-Xylene	ug/L	100	99.3	99	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Naphthalene	ug/L	50	51.7	103	70-130	
o-Xylene	ug/L	50	49.3	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	534	107	70-130	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

LABORATORY CONTROL SAMPLE: 1195800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	397	99	70-130	
Toluene	ug/L	50	50.7	101	70-130	
Xylene (Total)	ug/L	150	149	99	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196457 1196458

Parameter	Units	92200412016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	58.0	67.3	116	135	70-130	15	30	M0
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1080	1240	108	124	70-130	13	30	
Benzene	ug/L	ND	50	50	63.0	71.4	126	143	70-130	13	30	M0
Diisopropyl ether	ug/L	ND	50	50	56.3	64.4	113	129	70-130	13	30	
Ethanol	ug/L	ND	2000	2000	1970	1610	99	81	70-130	20	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	100	116	100	116	70-130	14	30	
Ethylbenzene	ug/L	ND	50	50	56.2	62.4	112	125	70-130	10	30	
m&p-Xylene	ug/L	ND	100	100	115	128	115	128	70-130	11	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	58.3	66.0	117	132	70-130	12	30	M0
Naphthalene	ug/L	ND	50	50	55.5	61.5	111	123	70-130	10	30	
o-Xylene	ug/L	ND	50	50	56.3	63.3	113	127	70-130	12	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1200	1320	120	132	70-130	10	30	M0
tert-Amylmethyl ether	ug/L	ND	100	100	114	130	114	130	70-130	13	30	
tert-Butyl Alcohol	ug/L	ND	500	500	792	864	158	173	70-130	9	30	M0
tert-Butyl Formate	ug/L	ND	400	400	44.9J	49.6J	11	12	70-130		30	M0
Toluene	ug/L	ND	50	50	58.7	66.0	117	132	70-130	12	30	M0
1,2-Dichloroethane-d4 (S)	%						99	97	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: MSV/26776 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92200412006

METHOD BLANK: 1196668 Matrix: Water
Associated Lab Samples: 92200412006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/12/14 16:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/12/14 16:48	
Benzene	ug/L	ND	5.0	05/12/14 16:48	
Diisopropyl ether	ug/L	ND	5.0	05/12/14 16:48	
Ethanol	ug/L	ND	200	05/12/14 16:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/12/14 16:48	
Ethylbenzene	ug/L	ND	5.0	05/12/14 16:48	
m&p-Xylene	ug/L	ND	10.0	05/12/14 16:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/12/14 16:48	
Naphthalene	ug/L	ND	5.0	05/12/14 16:48	
o-Xylene	ug/L	ND	5.0	05/12/14 16:48	
tert-Amyl Alcohol	ug/L	ND	100	05/12/14 16:48	
tert-Amylmethyl ether	ug/L	ND	10.0	05/12/14 16:48	
tert-Butyl Alcohol	ug/L	ND	100	05/12/14 16:48	
tert-Butyl Formate	ug/L	ND	50.0	05/12/14 16:48	
Toluene	ug/L	ND	5.0	05/12/14 16:48	
Xylene (Total)	ug/L	ND	10.0	05/12/14 16:48	
1,2-Dichloroethane-d4 (S)	%	99	70-130	05/12/14 16:48	
4-Bromofluorobenzene (S)	%	100	70-130	05/12/14 16:48	
Toluene-d8 (S)	%	99	70-130	05/12/14 16:48	

LABORATORY CONTROL SAMPLE: 1196669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.1	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	55.0	110	70-130	
Diisopropyl ether	ug/L	50	50.3	101	70-130	
Ethanol	ug/L	2000	2170	108	70-130	
Ethyl-tert-butyl ether	ug/L	100	89.8	90	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	52.6	105	70-130	
Naphthalene	ug/L	50	53.4	107	70-130	
o-Xylene	ug/L	50	50.7	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1120	112	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	559	112	70-130	
tert-Butyl Formate	ug/L	400	420	105	70-130	
Toluene	ug/L	50	51.7	103	70-130	
Xylene (Total)	ug/L	150	154	103	70-130	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

LABORATORY CONTROL SAMPLE: 1196669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196847 1196848

Parameter	Units	92200412006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	57.8	53.7	115	107	70-130	7	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1120	1170	112	117	70-130	5	30	
Benzene	ug/L	ND	50	50	63.7	60.4	126	119	70-130	5	30	
Diisopropyl ether	ug/L	ND	50	50	55.3	51.2	111	102	70-130	8	30	
Ethanol	ug/L	ND	2000	2000	2340	1970	117	98	70-130	17	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	99.3	93.7	99	94	70-130	6	30	
Ethylbenzene	ug/L	ND	50	50	54.7	53.3	109	107	70-130	3	30	
m&p-Xylene	ug/L	ND	100	100	113	109	112	108	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	58.4	56.5	114	110	70-130	3	30	
Naphthalene	ug/L	ND	50	50	53.5	54.9	107	110	70-130	3	30	
o-Xylene	ug/L	ND	50	50	55.6	53.3	111	106	70-130	4	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1160	1250	115	123	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	100	100	115	110	115	110	70-130	5	30	
tert-Butyl Alcohol	ug/L	ND	500	500	756	801	151	160	70-130	6	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	1	1	70-130		30	
Toluene	ug/L	ND	50	50	58.3	56.1	117	112	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						94	96	70-130			
4-Bromofluorobenzene (S)	%						100	102	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: OEXT/27557 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92200412001, 92200412002

METHOD BLANK: 1195693 Matrix: Water
Associated Lab Samples: 92200412001, 92200412002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/09/14 22:51	
1-Chloro-2-bromopropane (S)	%	98	60-140	05/09/14 22:51	

LABORATORY CONTROL SAMPLE & LCSD: 1195694 1195695

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	0.27	0.27	92	94	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				98	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195696 1195697

Parameter	Units	92200412001 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	40.3	.28	.28	32.8	31.9	-2656	-2972	60-140	3	20	P6
1-Chloro-2-bromopropane (S)	%						124	109	60-140			

SAMPLE DUPLICATE: 1195698

Parameter	Units	92200412002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	90	111	21		

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: OEXT/27558 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92200412003, 92200412004, 92200412006, 92200412007, 92200412009, 92200412010, 92200412011, 92200412012, 92200412014, 92200412015, 92200412017, 92200412018

METHOD BLANK: 1195699 Matrix: Water
Associated Lab Samples: 92200412003, 92200412004, 92200412006, 92200412007, 92200412009, 92200412010, 92200412011, 92200412012, 92200412014, 92200412015, 92200412017, 92200412018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/10/14 08:09	
1-Chloro-2-bromopropane (S)	%	97	60-140	05/10/14 08:09	

LABORATORY CONTROL SAMPLE & LCSD: 1195700 1195701

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	0.26	0.26	90	90	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				97	97	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195702 1195703

Parameter	Units	92200412012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.25	0.25	90	90	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						96	96	60-140			

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: OEXT/27576 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92200412019, 92200412020, 92200412021, 92200412022, 92200412023, 92200412024, 92200412025, 92200412026

METHOD BLANK: 1196219 Matrix: Water
Associated Lab Samples: 92200412019, 92200412020, 92200412021, 92200412022, 92200412023, 92200412024, 92200412025, 92200412026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/10/14 19:29	
1-Chloro-2-bromopropane (S)	%	99	60-140	05/10/14 19:29	

LABORATORY CONTROL SAMPLE & LCSD: 1196220 1196221

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	0.28	0.27	96	94	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				100	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196222 1196223

Parameter	Units	92200412020 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	0.92	.28	.28	1.2	1.2	85	91	60-140	1	20	M0
1-Chloro-2-bromopropane (S)	%						84	87	60-140			

SAMPLE DUPLICATE: 1196224

Parameter	Units	92200412021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	98	87	14		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92200412

QC Batch: OEXT/27588 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92200412005, 92200412008, 92200412013, 92200412016

METHOD BLANK: 1196370 Matrix: Water
Associated Lab Samples: 92200412005, 92200412008, 92200412013, 92200412016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/12/14 14:16	
1-Chloro-2-bromopropane (S)	%	93	60-140	05/12/14 14:16	

LABORATORY CONTROL SAMPLE & LCSD: 1196371 1196372

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	0.23	0.24	82	86	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				94	96	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196374 1196375

Parameter	Units	92200295015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.25	0.24	88	86	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						98	100	60-140			

SAMPLE DUPLICATE: 1196373

Parameter	Units	92199989010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	94	97	0		

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QUALIFIERS

Project: Short Stop
Pace Project No.: 92200412

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Short Stop
Pace Project No.: 92200412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92200412001	05678 MW-1R	EPA 8011	OEXT/27557	EPA 8011	GCSV/17535
92200412002	05678 MW-2R	EPA 8011	OEXT/27557	EPA 8011	GCSV/17535
92200412003	05678 MW-4R	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412004	05678 MW-5	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412005	05678 MW-6	EPA 8011	OEXT/27588	EPA 8011	GCSV/17543
92200412006	05678 MW-7	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412007	05678 MW-8	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412008	05678 MW-9	EPA 8011	OEXT/27588	EPA 8011	GCSV/17543
92200412009	05678 MW-10	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412010	05678 MW-11	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412011	05678 MW-12	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412012	05678 MW-13	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412013	05678 MW-14	EPA 8011	OEXT/27588	EPA 8011	GCSV/17543
92200412014	05678 MW-15	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412015	05678 MW-16	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412016	05678 MW-17	EPA 8011	OEXT/27588	EPA 8011	GCSV/17543
92200412017	05678 MW-18	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412018	05678 MW-19	EPA 8011	OEXT/27558	EPA 8011	GCSV/17536
92200412019	05678 MW-20	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412020	05678 MW-21	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412021	05678 MW-22	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412022	05678 DW-1	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412023	05678 DW-2	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412024	5678 Duplicate 1	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412025	5678 Duplicate 2	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412026	5678 Field Blank	EPA 8011	OEXT/27576	EPA 8011	GCSV/17538
92200412001	05678 MW-1R	EPA 8260	MSV/26761		
92200412002	05678 MW-2R	EPA 8260	MSV/26761		
92200412003	05678 MW-4R	EPA 8260	MSV/26761		
92200412004	05678 MW-5	EPA 8260	MSV/26761		
92200412005	05678 MW-6	EPA 8260	MSV/26761		
92200412006	05678 MW-7	EPA 8260	MSV/26776		
92200412007	05678 MW-8	EPA 8260	MSV/26761		
92200412008	05678 MW-9	EPA 8260	MSV/26761		
92200412009	05678 MW-10	EPA 8260	MSV/26761		
92200412010	05678 MW-11	EPA 8260	MSV/26761		
92200412011	05678 MW-12	EPA 8260	MSV/26761		
92200412012	05678 MW-13	EPA 8260	MSV/26764		
92200412013	05678 MW-14	EPA 8260	MSV/26764		
92200412014	05678 MW-15	EPA 8260	MSV/26764		
92200412015	05678 MW-16	EPA 8260	MSV/26764		
92200412016	05678 MW-17	EPA 8260	MSV/26764		

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Short Stop
Pace Project No.: 92200412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92200412017	**05678 MW-18**	EPA 8260	MSV/26764		
92200412018	**05678 MW-19**	EPA 8260	MSV/26764		
92200412019	**05678 MW-20**	EPA 8260	MSV/26764		
92200412020	**05678 MW-21**	EPA 8260	MSV/26764		
92200412021	**05678 MW-22**	EPA 8260	MSV/26764		
92200412022	**05678 DW-1**	EPA 8260	MSV/26764		
92200412023	**05678 DW-2**	EPA 8260	MSV/26764		
92200412024	**5678 Duplicate 1**	EPA 8260	MSV/26764		
92200412025	**5678 Duplicate 2**	EPA 8260	MSV/26764		
92200412026	**5678 Field Blank**	EPA 8260	MSV/26764		
92200412027	**5678 Trip Blank**	EPA 8260	MSV/26764		

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CHAIN-OF-CUSTODY / Analytical Request Document

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92200412

Page: 1 of 3

1793655

Section A Required Client Information:

Company:	KLM Env.
Address:	PO Box 2704
	Goose Creek, SC 29445
Email To:	mkeller131@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	824-3

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: BTEX+MN	12 DCA	8 oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	05678 MW-1R	WT	G	5/6/14			1530		6				X					X	X	X	X		001
2	05678 MW-2R						1500																002
3	05678 MW-4R						1600																003
4	05678 MW-5						1545																004
5	05698 MW-6						1615																005
6	05678 MW-7						1430																006
7	05698 MW-8						1330																007
8	05678 MW-9						1300																008
9	05678 MW-10						1245																009
10	05678 MW-11						1215																010
11	05678 MW-12						1145																011
12	05678 MW-13	↓	↓	↓			1130		↓				↓					↓	↓	↓	↓		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keller	5/7/14	1700	A.M. PACE	5/8/14	0930	1.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

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92200412

Page: 2 of 3

1793653

Section A Required Client Information:

Company:	KLM Env.
Address:	PO Box 2704 Goose Creek SC 29445
Email To:	mkeller13@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEXNM	12 DCA	Oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	05678 MW-14	WT	G	5/6/14			1100		6				X						X	X	X	X		013
2	05678 MW-15						1000																	014
3	05678 MW-16						1045																	015
4	05678 MW-17						1115																	016
5	05678 MW-18						1200																	017
6	05678 MW-19						1630																	018
7	05678 MW-20						1445																	019
8	05678 MW-21						1415																	020
9	05678 MW-22						1230																	021
10	05678 DW-1						1400																	022
11	05678 DW-2						1030																	023
12	05678 Duplicate 1	X	X	X			1450		4				4						4	4	2	2		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Keller	5/7/14	1100	PACE	5/8/14	0930	1.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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.

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92200412

Page: 3 of 3

1793654

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KLM Env.	Report To:	Attention:
Address:	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Short Stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX NM	12 DCA	8 oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	05678 Duplicate 2	wt	G	5/6/14			1505		6				X						X	X	X	X		025
2	05678 Field Blank						1105		4										X	X	X	X		026
3	05678 Trip Blank		X						2				X						X	X	X			027
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Keller	5/7/14	1700	[signature] A. Kl[illegible] / PACE	5/8/14	0930	1.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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

Water Quality Meter Calibration Sheet

Project: Short Stop

Personnel : J. Boots

Calibration Date : 5/6/14

Time : 630

Meter Horiba U-52

Serial # W22MV13L

pH= 4.01 (100-4 Standard Solution)

Spec. Cond. = 4.49 mS/cm (100-4 Standard Solution)

Turb. = 0 NTU(100-4 Standard Solution)

D.O. = 9.17 mg/L (Air)

Signature J. Boots

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-1R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.80 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2.5	5	7					
Time (military)	1520	1525	1530					
Water Temp (°F)	73.1	72.4	73.0					
pH (s.u.)	5.99	5.94	5.91					
Specific Cond. (mS/cm)	.229	.223	.230					
Turbidity (NTU)	62.3	64.1	65.2					
Dissolved Oxygen (mg/L)	1.53	1.70	1.77					
Salinity	0.1	0.1	0.1					
OVA	–	–	–					

Sample Time: 1530

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 2R = Dup.2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.40 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6					
Time (military)	1450	1455	1500					
Water Temp (°F)	73.6	72.7	72.4					
pH (s.u.)	6.09	6.10	6.17					
Specific Cond. (mS/cm)	.224	.219	.210					
Turbidity (NTU)	122	110	116					
Dissolved Oxygen (mg/L)	2.39	2.10	1.79					
Salinity	0.1	0.1	0.1					
OVA	-	-	-					

Sample Time: 1500 Dup2 1505

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 3R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) ~~26~~ ft. 27.72-31.56

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP No Sample

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 4R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.40 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6.5					
Time (military)	1550	1555	1600					
Water Temp (°F)	73.6	72.1	72.4					
pH (s.u.)	6.00	6.10	6.14					
Specific Cond. (mS/cm)	.169	.170	.174					
Turbidity (NTU)	105	110	113					
Dissolved Oxygen (mg/L)	2.64	2.10	2.21					
Salinity	0.1	0.1	0.1					
OVA	–	–	–					

Sample Time: 1600

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.54 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6					
Time (military)	1535	1540	1545					
Water Temp (°F)	74.5	73.1	72.4					
pH (s.u.)	5.99	5.90	5.86					
Specific Cond. (mS/cm)	.159	.170	.180					
Turbidity (NTU)	1004	181	187					
Dissolved Oxygen (mg/L)	2.19	2.10	2.13					
Salinity	0.1	0.1	0.1					
OVA	—	0	—					

Sample Time: 1545

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.50 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	5	7					
Time (military)	1605	1610	1615					
Water Temp (°F)	80.0	77.7	77.6					
pH (s.u.)	5.38	5.10	5.24					
Specific Cond. (mS/cm)	.127	.134	.139					
Turbidity (NTU)	236	24	248					
Dissolved Oxygen (mg/L)	4.90	3.10	3.71					
Salinity	0.0	0.0	0.1					
OVA	-	-	-					

Sample Time: 1615

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.67 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	5	7.5					
Time (military)	1420	1425	1430					
Water Temp (°F)	70.6	71.7	71.4					
pH (s.u.)	5.37	5.42	5.46					
Specific Cond. (mS/cm)	.080	.083	.084					
Turbidity (NTU)	63.1	62.8	63.7					
Dissolved Oxygen (mg/L)	2.69	2.41	2.30					
Salinity	0.0	0.0	0.0					
OVA	–	–	–					

Sample Time: 1430

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.17 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2.5	5	7.5					
Time (military)	1320	1325	1330					
Water Temp (°F)	72.3	71.7	71.0					
pH (s.u.)	5.45	5.50	5.47					
Specific Cond. (mS/cm)	.079	.081	.086					
Turbidity (NTU)	202	210	201					
Dissolved Oxygen (mg/L)	1.97	1.10	1.52					
Salinity	0.0	0.1	0.0					
OVA	–	–	–					

Sample Time: 1330

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.19 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2.5	5	7.5					
Time (military)	1250	1255	1300					
Water Temp (°F)	70.1	71.4	72.6					
pH (s.u.)	5.90	5.86	5.80					
Specific Cond. (mS/cm)	.100	.103	.109					
Turbidity (NTU)	88	94	97					
Dissolved Oxygen (mg/L)	4.91	3.86	3.77					
Salinity	0.0	0.0	0.0					
OVA	–	–	–					

Sample Time: 1300

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 12

Well Diameter(D) 2 inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.49 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	5	7.5					
Time (military)	1235	1240	1245					
Water Temp (°F)	71.2	72.7	73.1					
pH (s.u.)	5.74	5.60	5.64					
Specific Cond. (mS/cm)	.152	.159	.160					
Turbidity (NTU)	114	110	107					
Dissolved Oxygen (mg/L)	3.76	3.19	3.00					
Salinity	0.1	0.1	0.1					
OVA	–	–	–					

Sample Time: 1245

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) ~~25.17~~ 24.97 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	3	6	8					
Time (military)	1205	1210	1215					
Water Temp (°F)	74.905	74.2	73.1					
pH (s.u.)	5.73	5.70	5.77					
Specific Cond. (mS/cm)	.131	.138	.139					
Turbidity (NTU)	148	153	157					
Dissolved Oxygen (mg/L)	1.70	1.62	1.60					
Salinity	01	01	01					
OVA	-	-	-					

Sample Time: 1215

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 1R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.94 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	3	5	7.5					
Time (military)	1135	1140	1145					
Water Temp (°F)	75.7	74.7	74.9					
pH (s.u.)	5.49	5.81	5.87					
Specific Cond. (mS/cm)	.064	069	.071					
Turbidity (NTU)	632	650	641					
Dissolved Oxygen (mg/L)	7.10	5.27	5.02					
Salinity	0.0	0.0	0.0					
OVA	-	-	-					

Sample Time: 1145

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.92 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	3	5	7.5					
Time (military)	1120	1125	1130					
Water Temp (°F)	74.8	73.2	72.4					
pH (s.u.)	5.81	5.84	5.60					
Specific Cond. (mS/cm)	.083	.089	.094					
Turbidity (NTU)	741	750	747					
Dissolved Oxygen (mg/L)	2.93	2.80	2.82					
Salinity	0.0	0.1	0.0					
OVA	-	-	-					

Sample Time: 1130

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.30 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	7					
Time (military)	1050	1055	1100					
Water Temp (°F)	75.3	74.1	74.2					
pH (s.u.)	5.81	5.90	5.94					
Specific Cond. (mS/cm)	.155	.161	.160					
Turbidity (NTU)	107	102	110					
Dissolved Oxygen (mg/L)	3.51	2.71	2.14					
Salinity	0.1	0.1	0.1					
OVA								

Sample Time: 1100

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 31 ft.
Depth to GW (DWG) 19.31 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6					
Time (military)	950	955	1000					
Water Temp (°F)	73.7	72.7	72.1					
pH (s.u.)	6.20	6.24	6.29					
Specific Cond. (mS/cm)	.203	.211	.213					
Turbidity (NTU)	107	112	130					
Dissolved Oxygen (mg/L)	4.22	2.81	2.91					
Salinity	0.1	0.1	0.1					
OVA	–	–	–					

Sample Time: 1000

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 39 ft.
Depth to GW (DWG) 25.95 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	7					
Time (military)	1035	1040	1045					
Water Temp (°F)	75.2	74.2	74.3					
pH (s.u.)	6.79	6.48	6.50					
Specific Cond. (mS/cm)	.136	.144	.140					
Turbidity (NTU)	89.1	90.6	91.7					
Dissolved Oxygen (mg/L)	5.00	2.11	2.14					
Salinity	0.1	0.1	0.1					
OVA	—	—	—					

Sample Time: 1045

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.66 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	7.0					
Time (military)	1105	1110	1115					
Water Temp (°F)	75.66	74.1	73.2					
pH (s.u.)	5.90	5.96	5.91					
Specific Cond. (mS/cm)	.118	.120	.124					
Turbidity (NTU)	88	91	95					
Dissolved Oxygen (mg/L)	3.49	2.18	2.24					
Salinity	0.1	0.1	0.1					
OVA	—	—	—					

Sample Time: 1115

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 22.69 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post Sampling
Volume Purged (gallons)	3	6	9				
Time (military)	1150	1155	1200				
Water Temp (°F)	72.0	77.4	75.6				
pH (s.u.)	5.57	5.62	5.70				
Specific Cond. (mS/cm)	.071	.074	079				
Turbidity (NTU)	397	388	391				
Dissolved Oxygen (mg/L)	2.60	2.78	2.86				
Salinity	0.0	0.0	0.0				
OVA	-	-	-				

Sample Time: 1230

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 29.53 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.5	3	5.5					
Time (military)	1620	1625	1630					
Water Temp (°F)	72.4	73.1	72.7					
pH (s.u.)	5.93	5.98	5.97					
Specific Cond. (mS/cm)	.203	.210	.224					
Turbidity (NTU)	70.4	71.3	74.2					
Dissolved Oxygen (mg/L)	1.02	1.11	1.20					
Salinity	0.1	0.1	0.1					
OVA	–	–	–					

Sample Time: 1630

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 20 = Dup.1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.95 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6.5					
Time (military)	1435	1440	1445					
Water Temp (°F)	73.9	74.0	73.2					
pH (s.u.)	5.72	5.16	5.21					
Specific Cond. (mS/cm)	.145	.150	.162					
Turbidity (NTU)	223	237	221					
Dissolved Oxygen (mg/L)	2.87	2.10	1.78					
Salinity	0.1	0.1	0.1					
OVA	—	—	—					

Sample Time: 1445

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 21

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) ~~25.82~~ 25.72 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	5	7.5					
Time (military)	1405	1410	1415					
Water Temp (°F)	71.4	72.7	72.5					
pH (s.u.)	5.82	5.90	5.86					
Specific Cond. (mS/cm)	.171	.174	.178					
Turbidity (NTU)	162	160	154					
Dissolved Oxygen (mg/L)	1.61	1.70	1.77					
Salinity	0.1	0.1	0.1					
OVA	-	-	-					

Sample Time: 1415

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.44 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	3	5	8					
Time (military)	1120	1225	1230					
Water Temp (°F)	73.1	72.4	71.8					
pH (s.u.)	5.91	5.90	5.86					
Specific Cond. (mS/cm)	.135	.140	.141					
Turbidity (NTU)	112	117	118					
Dissolved Oxygen (mg/L)	2.42	2.80	2.68					
Salinity	0.1	0.1	0.1					
OVA	~	~	~					

Sample Time: 1230

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- DW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 63 ft.
Depth to GW (DWG) 25.49 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	7	13	19					
Time (military)	1340	1350	1400					
Water Temp (°F)	73.5	72.7	71.3					
pH (s.u.)	5.97	6.01	6.07					
Specific Cond. (mS/cm)	.163	.171	.174					
Turbidity (NTU)	80.2	77.4	72.6					
Dissolved Oxygen (mg/L)	3.94	3.01	2.79					
Salinity	0.1	0.1	0.1					
OVA	–	–	–					

Sample Time: 1410

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/6/14
Field Personnel Jason Boots and Mark Keller
General Weather Condition Sunny
Ambient Air Temperature 90
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- DW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 19.37 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	7	14	20					
Time (military)	1010	1020	1030					
Water Temp (°F)	71.1	72.1	72.0					
pH (s.u.)	6.94	6.86	6.80					
Specific Cond. (mS/cm)	.271	.274	.280					
Turbidity (NTU)	21	27	33					
Dissolved Oxygen (mg/L)	1.14	1.24	1.32					
Salinity	0.1	0.1	0.1					
OVA	—	—	—					

Sample Time: 1030

APPENDIX C

Regional Geology

APPENDIX D

Field Screening Logs

APPENDIX E

Well Logs

APPENDIX F

Aquifer Calculations / Historical Water Levels

TABLE 1 Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
	1/5/10			--	28.26	75.36
	12/1/10			--	28.60	75.02
	5/6/14			--	26.80	76.82
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
	4/8/09			--	30.45	74.66
	1/5/10			--	29.72	75.39
	12/1/10			--	29.97	75.14
	5/6/14			--	28.40	76.71
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
	4/8/09			--	30.51	75.16
	1/5/10			29.75	29.86	**FP**
	12/1/10			28.79	33.22	**FP**
	5/6/14			27.72	31.56	**FP**
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
	4/8/09			--	29.60	74.84
	1/5/10			--	28.99	75.45
	12/1/10			--	29.44	75.00
	5/6/14			--	27.40	77.04
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
	4/8/09			--	30.55	75.07
	1/5/10			--	29.87	75.75
	12/1/10			--	29.95	75.67
	5/6/14			--	28.54	77.08
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
	4/8/09			--	28.92	74.95
	1/5/10			--	28.23	75.64
	12/1/10			--	29.95	75.67
	5/6/14			--	26.50	77.37
MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
	4/8/09			--	28.05	74.50
	1/5/10			--	27.27	75.28
	12/1/10			--	27.94	74.61
	5/6/14			--	25.67	76.88
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
	4/8/09			--	27.44	74.38
	1/5/10			--	26.64	75.18
	12/1/10			--	27.12	74.70
	5/6/14			--	25.17	76.65

MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
	4/8/09			--	27.71	74.32
	1/5/10			--	26.93	75.10
	12/1/10			--	27.79	74.24
	5/6/14			--	25.18	76.85
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
	4/8/09			--	27.94	74.36
	1/5/10			--	27.17	75.13
	12/1/10			--	27.91	74.39
	5/6/14			--	25.49	76.81
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
	4/8/09			--	26.22	74.23
	1/5/10			--	25.38	75.07
	12/1/10			--	25.93	74.52
	5/6/14			--	24.97	75.48
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
	4/8/09			--	27.98	74.42
	1/5/10			--	27.25	75.15
	12/1/10			--	27.46	74.94
	5/6/14			--	25.94	76.46
MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
	4/8/09			--	27.90	74.01
	1/5/10			--	27.18	74.73
	12/1/10			--	27.35	74.56
	5/6/14			--	25.92	75.99
MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
	4/8/09			--	28.43	73.34
	1/5/10			--	27.71	74.06
	12/1/10			--	27.91	73.86
	5/6/14			--	26.38	75.39
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
	4/8/09			--	21.90	72.70
	1/5/10			--	21.08	73.52
	12/1/10			--	21.90	72.70
	5/6/14			--	19.31	75.29
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82
	4/8/09			--	28.34	72.92
	1/5/10			--	27.53	73.73
	12/1/10			--	27.98	73.28
	5/6/14			--	25.95	75.31

MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
	4/8/09			--	28.50	73.19
	1/5/10			--	27.75	73.94
	12/1/10			--	27.67	74.02
	5/6/14			--	26.66	75.03
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
	4/8/09			--	25.21	72.98
	1/5/10			--	24.33	73.86
	12/1/10			--	25.15	73.04
	5/6/14			--	22.69	75.5
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
	4/8/09			--	28.12	78.74
	1/5/10			--	31.25	75.61
	12/1/10			--	31.55	75.31
	5/6/14			--	29.53	77.33
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
	1/5/10			--	29.37	75.46
	12/1/10			--	29.73	75.10
	5/6/14			--	27.95	76.88
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
	1/5/10			--	27.32	75.34
	12/1/10			--	27.87	74.79
	5/6/14			--	25.72	76.94
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
	1/5/10			--	26.01	75.22
	12/1/10			--	26.57	74.66
	5/6/14			--	24.44	76.79
DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
	4/8/09			--	27.75	74.48
	1/5/10			--	28.19	74.04
	12/1/10			--	25.51	76.72
	5/6/14			--	25.49	76.74
DW-2	12/8/08	94.62	40-60	--	23.31	71.31
	4/8/09			--	21.90	72.72
	1/5/10			--	21.14	73.48
	12/1/10			--	21.90	72.72
	5/6/14			--	19.37	75.25

APPENDIX G

Disposal Manifest

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: scotch man 17 | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Kim Enu | Phone ( ) | P O #:

4. Transporter Company Name: Vacuum | Phone ( )

Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address: US Water Recovery, 511 Old Mt. Holly Rd., Goose Creek, SC 29445 | Phone: (843) 797-8674 | Fax: (843) 797-2126

Mailing Address: US Water Recovery, 511 Old Mt. Holly Rd., Goose Creek, SC 29445 | Phone: (843) 797-3111 | Fax: (843) 797-1884

7 Facility U.S. EPA ID#:

Start Level: | End Level: | Total Gallons: | Tank Number

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				275
short stop				125

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Scotch | Signature: | Date: 5-16-14

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: mark Kell | Signature: | Date: 5-16-14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: | Signature: | Date 5-16-14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

10487

APPENDIX H

Zoning Information

APPENDIX I

Fate and Transport Modeling

APPENDIX J

Access Agreements

APPENDIX K

Checklist

Contractor Checklist

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

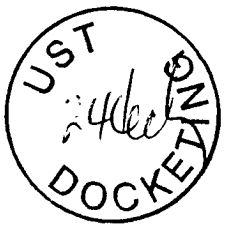
Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone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

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

Explanation for missing and incomplete information?

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MS GRETA STANLEY
123 SHIPYARD BLVD
WILMINGTON NC 28412



JUN 1 . 2014

Re: **Corrective Action Options**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678
Release Reported December 30, 1991
Monitoring Report received May 22, 2014
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report submitted by KLM Environmental on your behalf. The report indicates that active corrective action is necessary at the site to mitigate petroleum impact and ensure that there is no detrimental exposure to human health or the environment.

Funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account will soon be available for active corrective action. The selected technology must remove all free phase petroleum product and reduce the petroleum chemicals of concern (CoC) concentrations to site-specific target levels (SSTLs) determined by the Division.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by an Agency-certified site rehabilitation contractor. As the owner/operator for the release reported on December 30, 1991 you may choose one of two options as to how to proceed with this requirement: state lead or owner/operator lead.

State Lead Option:

- If you choose the state lead option, the Division will procure a certified site rehabilitation contractor to perform corrective action on your behalf. The Agency will enter into an enforceable contract with the awarded contractor. As long as you do not interfere with or prohibit the work at your site, you will not be responsible in the event the state selected contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals. To utilize the state lead option, please sign and return the applicable Permission and Right-of-Entry forms within 15 days of the date of this letter.

Owner/Operator Lead Option:

- If you select the owner/operator lead option, you will be required to select a contractor to perform the corrective action. In order to assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, the Division will prepare a technical specification package and provide you copies to send to contractors of your choice. In addition, the Division will announce the request for solicitations in the South Carolina Business Opportunities, a bi-weekly state government publication, to ensure that an adequate solicitation response is obtained so that a fair and competitive price can be established. This announcement will clearly indicate that you will select the contractor to implement the corrective action.
- Compensation to the contractor will be from the SUPERB Account, but you may have the obligation to pay your selected contractor for any costs not approved by the Agency.
- The Division strongly suggests that a written contract between you and the selected contractor be developed following the completion of the solicitation process. The parties to this contract would be you and the contractor you choose; the Agency would not be a party to this contract. The Division's function would be to monitor and ensure progress of corrective action activities.
- If the contractor you select does not or cannot complete the required activities, you will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount. No additional funding from the SUPERB Account may be allowed. Under R.61-92, Part 280 of the Underground Storage Tank Control Regulations, you as the owner/operator are ultimately responsible to the Agency for the actions of your contractor. The Agency will pursue enforcement actions against you if the contractor you select does not make satisfactory progress towards achieving established corrective actions goals. To utilize the owner/operator lead option, please sign and return the enclosed Active Corrective Action Options Form within 15 days of the date of this letter.

On all correspondence or inquiries regarding this project, please reference UST Permit **#05678**. If you have any questions, please contact me at (803) 898-0634 or utzst@dhec.sc.gov.

Sincerely,

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

enc: Permission/Right-of-Entry forms
Active Corrective Action Options form

cc: KLM Environmental, LLC, P.O. Box 2704, Goose Creek, SC 29445(w/ enc)
Technical File (w/ enc)

Ms. Stanley
UST# 05678-ACA options

State Lead Option

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit **#05678**

If you are both the owner of the former or existing underground storage tanks for the release reported on December 30, 1991 and the current property owner, please complete this form.

I, _____, certify that I am the identified legal owner of the underground storage tanks for the release reported on December 30, 1991 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 (Agency) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize the Agency, or a contractor selected by the Agency, 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 the Agency or its contractor 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 Division of Underground Storage Tank Management in writing.

Name of Facility Short Stop Phone # _____

Street Address of Facility 613 Musgrove St.

Town, City, District, Suburb Clinton

Name of nearest intersecting street, road, highway, alley _____

_____Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or 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 _____, phone number _____

Is the property currently leased or rented to someone? (yes or no) _____. If yes, please provide their name _____and phone number _____

_____and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before the Agency's contractor arrives at the site.

NAME of UST/property owner (Please Print):_____

Phone Number (home)_____(work)_____

Signature of UST/property Owner:_____

Witness:_____

Date:_____Month _____Day_____Year

Attn: Sonya Utz

Ms. Stanley
UST# 05678-ACA options

State Lead Option

PERMISSION FORM

UNDERGROUND STORAGE TANK OWNER

UST Permit **#05678**

If you are the owner of the former or existing underground storage tanks for the release reported on December 30, 1991 or are designated as their authorized representative, but do not own the property, please complete this form.

I, _____ certify that I am the legal owner of the former and/or existing underground storage tank(s) located at the facility identified below and for the release reported on December 30, 1991 or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Division of Underground Storage Tank Management in writing.

Name of Facility Short Stop Phone # _____

Street Address of Facility 613 Musgrove St.

Town, City, District, Suburb Clinton

Name of nearest intersecting street, road, highway, alley _____

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

Does a public water or sewer utility service this facility? (yes or 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 _____, phone number _____

_____

NAME of UST owner (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST Owner:_____

Witness:_____

Date:_____Month _____Day_____Year

Attn: Sonya Utz

Ms. Stanley
UST# 05678-ACA options

State Lead Option

RIGHT-OF-ENTRY FORM

PROPERTY OWNER

UST Permit **#05678**

If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, _____, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (Agency), or a contractor selected by the Agency, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Short Stop Phone # _____

Street Address of Facility 613 Musgrove St

Town, City, District, Suburb Clinton

Name of nearest intersecting street, road, highway, alley _____

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

Does a public water or sewer utility service this facility? (yes or 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 _____, phone number _____

_____

Is the property currently leased or rented to someone? (yes or no) _____. If yes, please provide their name _____ and phone number _____ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before the Agency's contractor arrives at the site.

NAME of Property owner (Please Print):_____

Phone Number (home)_____ (work)_____

Current Mailing Address:_____

Signature of Property Owner:_____

Witness:_____

Date:_____Month _____Day_____Year

Attn: Sonya Utz

Ms. Stanley
UST# 05678-ACA options

Owner/ Operator Lead Option

ACTIVE CORRECTIVE ACTION OPTIONS FORM

UST PERMIT #05678

I, _____, certify that I am the legal owner on record for the underground storage tanks at the facility identified below for the release reported on December 30, 1991 or serve as the authorized representative for the owner. I wish to secure price quotations for corrective action activities as required by the Agency, and to select my own corrective action contractor after price quotation results are received. I understand that the Agency will also advertise for price quotations in the South Carolina Business Opportunities and provide the results to me. **I understand compensation to the contractor will be from the SUPERB Account, but I may have the obligation to pay the contractor for any costs not approved by the Agency. I understand that if the contractor I select does not or cannot complete the required activities, I will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount and that no additional funding from the SUPERB Account may be allowed. I also understand that the Agency will pursue enforcement actions against me if the contractor I select does not make satisfactory progress towards achieving established corrective actions goals.**

NAME of UST owner or authorized representative (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST Owner:_____

Date:_____

Witness:_____

Date:_____

Attn: Sonya Utz

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 6/19/14	Site ID #: 05678	Site Name: Short Stop
County: Laurens	Project Manager: S. Utz	Field Personnel: J. McLain

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-1			—	25.63	—	—	—	Yes	Yes	Yes
MW-1R	40	20-40	—	25.63	—	—	—	Yes	Yes	Yes
MW-2R	40	20-40	—	28.12	—	—	—	Yes	Yes	Yes
MW-3R	40	20-40	27.41	31.25	3.84	No	No	Yes	Yes	Yes
MW-5	40	20-40	—	28.18	—	—	—	Yes	Yes	Yes
MW-20	40	20-40	—	27.76	—	—	—	Yes	Yes	Yes

Notes: _____

Signature: Jessica P. McLain

UST 25-T DOCKETING

-UST Field Data Information Sheet – Monitoring Well Gauging

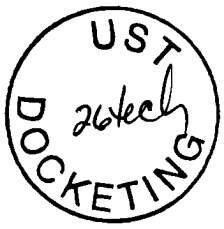
-Purpose of the form is to record information gathered during a monitoring well gauging event
-DHEC UST Project Managers and Field Staff
-Item-by-item instructions for completing the form:
    Fill in all Site Information boxes
    Record Well Gauging Information for all necessary wells
    Record any applicable notes
    Sign the form
-Form is scanned and saved electronically; Record Group Number 169, Retention Schedule 10304

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment



MS GRETA STANLEY
WORSLEY COMPANIES INC
123 SHIPYARD BLVD
WILINGTON NC 28412

JUL 0 3 2014

Re: **Aggressive Fluid and Vapor Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA# 48372
Release reported December 30, 1991
Monitoring Report received May 22, 2014
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using KLM Environmental, LLC as your contractor.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 2.0. **Please be aware that the AFVR Procedures have been updated.** One 96-hour event utilizing monitoring well MW-3R should be performed. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 36 feet in the wells. Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of Agency QAPP Revision 2.0 for the Underground Storage Tank Division is available at http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST .

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

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Cost Agreement #48372 has been approved in the amount shown on the enclosed cost agreement. KLM can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

On all correspondence concerning this site, please reference UST Permit #05678. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhec.sc.gov.

Sincerely,

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

enc: Approved Cost Agreement

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445(w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 48372

Facility 05678 SHORT STOP

UTZST

PO Number

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0 1200	22,742 25	2,729 07
23 EFR				
	A4 96 HOUR EVENT	1 0000	12,567 50	12,567 50
	C4 OFF GAS TREATMENT 96 HOUR	1 0000	780 00	780 00
	D SITE RECONNAISSANCE	1 0000	203.25	203 25
	F1 EFFLUENT DISPOSAL	20,000 0000	0 44	8,800 00
	G AFVR EQUIPMENT MOB	1 0000	391 50	391 50
		Total Amount		25,471 32

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704 843-870-4285 Phone
Goose Creek, SC 29445 843-797-1893 Fax

September 4, 2014

Ms. Sonya Utz
SCDHEC – BUSTM
2600 Bull Street
Columbia, S.C. 29201

Re: Short Stop
Permit # 05678 CA # 48372

Ms. Utz,

This letter, along with its attachments, is presented to document the results of the 96 hour Aggressive Fluid Vapor Recovery (AFVR) event performed on August 25th through August 29th, 2014. As requested in the directive, the event was conducted on MW-3R. MW-3R was gauged prior to and again after the AFVR event was completed using a Keck Oil/Water Interface Probe. A total of 2,582 gallons of contaminated groundwater was recovered during the 96 hour event. Emission calculations were performed for the event and a total of 1,066 gallons were recovered as vapor over the 96 hour event. Off gas treatment was conducted utilizing a thermal oxidizer designed to destroy 99+% of all contaminants put through the system. A photograph of the unit is included along with brief specifications. Prior to the event the well was gauged and 4.67 feet of free phase product was present. At the conclusion of the event the well was gauged again and 0.38 feet of free phase product was still present. The MiniRAE 3000 was utilized to collect the off gas readings and the meter was at its 15,000 ppm capacity on every reading for this event.

All of the remaining information requested in the AFVR letter is provided as an attachment. It has been a pleasure working with you on this project. Please call me directly if you have any questions at 843-870-4285.

Sincerely,

KLM Environmental, LLC

Mark L. Keller, PG
President

Enclosures (12): AFVR Information Tables; Vacuum Gauge Tables; Emission Calculation; Waste Manifest; USGS Map; Site Map; Thermal Oxidizer Photograph; Thermal Oxidizer Specifications

Site location: Short Stop			Date: 08/25/2014
Site Conditions: Site was in good condition. Wells were found in good condition.			
AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: C. Austin, J. Boots, S. Holmes	General Weather Conditions: Sunny	
Ambient Air Temperature: 85 F	Estimated Gallons of Product Removed: 25 gal	Initial Product Thickness: MW – 3R = 4.67	
Final Product Thickness: MW – 3R = 0.38	AFVR Start Time: 11:00 08/25/2014	AFVR End Time: 11:00 08/29/2014	

	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
Time	Well MW-3R	Well	Well	Vacuum in Inches of Hg	Temp in F	Stack Vel. mph	Humidity	Air Flow (CFM)	PID Pre-Treatment	PID Post-Treatment	
11:00	27.62	NA	NA	-18	106.8	20.6	78.2	148.46	15000+	195	
11:30	28.12	NA	NA	-18	103.4	20.0	76.3	144.14	15000+	197	
12:00	28.62	NA	NA	-18	107.1	18.8	77.6	135.49	15000+	192	
12:30	29.12	NA	NA	-18	105.7	19.3	75.8	139.09	15000+	190	
13:00	29.62	NA	NA	-18	102.9	19.1	74.3	137.65	15000+	194	
13:30	30.12	NA	NA	-18	108.6	18.5	73.1	133.33	15000+	198	
14:00	30.62	NA	NA	-18	110.2	18.0	69.4	129.73	15000+	195	
14:30	31.12	NA	NA	-18	109.9	18.7	64.7	134.77	15000+	190	
15:00	31.62	NA	NA	-18	112.3	19.1	63.1	137.65	15000+	188	
15:30	32.12	NA	NA	-18	110.7	18.7	65.8	134.77	15000+	185	
16:00	32.62	NA	NA	-18	111.3	18.4	62.3	132.61	15000+	185	
16:30	33.12	NA	NA	-18	109.9	17.9	68.7	129.00	15000+	184	
17:00	33.62	NA	NA	-18	112.6	18.5	66.1	133.33	15000+	185	
17:30	34.12	NA	NA	-18	113.1	18.9	63.4	136.21	15000+	180	
18:00	34.62	NA	NA	-18	111.6	18.3	65.7	131.89	15000+	182	
18:30	35.12	NA	NA	-18	110.9	19.0	62.1	136.93	15000+	182	
19:00	35.62	NA	NA	-18	112.8	18.6	61.6	134.05	15000+	185	
20:00	36.00	NA	NA	-18	113.4	19.3	63.6	139.09	15000+	188	
21:00	36.00	NA	NA	-18	112.5	19.5	64.3	140.54	15000+	189	
22:00	36.00	NA	NA	-18	112.2	18.8	62.1	135.49	15000+	179	
23:00	36.00	NA	NA	-18	113.0	18.5	65.4	133.33	15000+	181	
24:00	36.00	NA	NA	-18	111.4	18.9	64.7	136.21	15000+	180	

	Start	End
MW – 3R	27.62 – 32.29	30.21 - 30.59

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

AFVR Table
Short Stop
613 Musgrove St.
Clinton, SC UST #05678
8/25/14

Site location: Short Stop			Date: 8/26/14 and 8/27/14
Site Conditions: Site was in good condition. Wells were found in good condition.			
AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: C. Austin, J. Boots, S. Holmes	General Weather Conditions: Sunny	
Ambient Air Temperature: 85 F	Estimated Gallons of Product Removed:	Initial Product Thickness: MW – 3R = 4.67	
Final Product Thickness: MW – 3R = 0.38	AFVR Start Time: 11:00 08/25/2014	AFVR End Time: 11:00 08/29/2014	

	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
Time	Well MW-3R	Well	Well	Vacuum in Inches of Hg	Temp in F	Stack Vel. mph	Humidity	Air Flow (CFM)	PID Pre-Treatment	PID Post-Treatment	
8/26/14											
08:00	30.00	NA	NA	-18	96.7	18.4	49.7	132.61	15000+	176	
09:00	30.00	NA	NA	-18	96.3	18.7	48.3	134.77	15000+	175	
10:00	30.00	NA	NA	-18	97.4	19.4	48.9	139.82	15000+	177	
11:00	30.00	NA	NA	-18	97.6	19.3	51.6	139.09	15000+	175	
12:00	36.00	NA	NA	-18	97.1	18.6	50.2	134.05	15000+	175	
14:00	36.00	NA	NA	-18	99.8	17.9	52.3	129.00	15000+	180	
16:00	36.00	NA	NA	-18	101.7	18.3	51.6	131.89	15000+	182	
18:00	36.00	NA	NA	-18	106.3	18.9	56.7	136.21	15000+	183	
20:00	36.00	NA	NA	-18	108.4	18.5	55.1	133.33	15000+	187	
22:00	28.00	NA	NA	-18	105.9	19.0	56.9	136.93	15000+	184	
24:00	28.00	NA	NA	-18	103.6	18.7	54.3	134.77	15000+	188	
8/27/14											
08:00	28.00	NA	NA	-18	101.3	17.8	63.1	128.28	15000+	157	
10:00	28.00	NA	NA	-18	106.4	17.4	59.8	125.40	15000+	174	
12:00	28.00	NA	NA	-18	107.1	17.6	60.7	126.84	15000+	177	
14:00	28.00	NA	NA	-18	109.3	18.0	61.3	129.73	15000+	179	
16:00	28.00	NA	NA	-18	108.6	18.2	58.2	131.17	15000+	173	
18:00	36.00	NA	NA	-18	109.8	18.9	54.6	136.21	15000+	182	
20:00	36.00	NA	NA	-18	109.9	19.2	55.5	138.37	15000+	184	
22:00	36.00	NA	NA	-18	111.3	19.0	53.2	136.93	15000+	187	
24:00	36.00	NA	NA	-18	108.4	18.8	55.6	135.49	15000+	188	

	Start	End
MW – 3R	27.62 – 32.29	30.21 - 30.59

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

AFVR Table
Short Stop
613 Musgrove St.
Clinton, SC UST #05678
8/26/14 and 8/27/14

Site location: Short Stop									Date: 8/28/14 and 8/29/14		
Site Conditions: Site was in good condition. Wells were found in good condition.											
AFVR Contractor: Vacuum Recovery Technologies, LLC			Field Personnel: KLM Environmental, LLC: C. Austin, J. Boots, S. Holmes					General Weather Conditions: Sunny			
Ambient Air Temperature: 90 F			Estimated Gallons of Product Removed:					Initial Product Thickness: MW – 3R = 4.67			
Final Product Thickness: MW – 3R = 0.38			AFVR Start Time: 11:00 08/25/2014					AFVR End Time: 11:00 08/29/2014			
	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
Time	Well MW-3R	Well	Well	Vacuum in Inches of Hg	Temp in F	Stack Vel. mph	Humidity	Air Flow (CFM)	PID Pre-Treatment	PID Post-Treatment	
8/28/14											
08:00	28.00	NA	NA	-18	94.3	18.1	48.3	130.45	15000+	181	
10:00	28.00	NA	NA	-18	96.1	18.6	49.6	134.05	15000+	175	
12:00	28.00	NA	NA	-18	99.7	18.5	47.8	133.33	15000+	177	
14:00	28.00	NA	NA	-18	106.3	19.0	52.1	136.93	15000+	176	
16:00	28.00	NA	NA	-18	103.4	18.9	50.6	136.21	15000+	179	
18:00	36.00	NA	NA	-18	110.6	18.5	51.4	133.33	15000+	180	
20:00	36.00	NA	NA	-18	112.3	19.6	48.7	141.26	15000+	181	
22:00	36.00	NA	NA	-18	111.8	19.3	45.3	139.09	15000+	180	
24:00	36.00	NA	NA	-18	109.3	18.8	47.6	135.49	15000+	181	
8/29/14											
08:00	28.00	NA	NA	-18	101.3	17.9	40.1	129.00	15000+	175	
10:00	28.00	NA	NA	-18	106.7	18.3	42.3	131.89	15000+	170	
11:00	28.00	NA	NA	-18	108.3	18.0	39.9	129.73	15000+	170	

	Start	End
MW – 3R	27.62 – 32.29	30.21 - 30.59

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

AFVR Table
Short Stop
613 Musgrove St.
Clinton, SC UST #05678
8/28/14 and 8/29/14

Site Location: Short Stop			Date: 8/25/2014
Site Conditions: Site was in good condition. Wells were found in good condition.			
AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: C. Austin, J. Boots, S. Holmes		General Weather Conditions: Clear

	Inches of Hg on Extraction Well**			**Inches of Hg on adjacent well**			
Time	**MW-3R**	**MW-**	**MW-**	**MW-2R**			
11:00	-18			0			
11:30	-18			0			
12:00	-18			0			
12:30	-18			0			
13:00	-18			0			
13:30	-18			0			
14:00	-18			0			
14:30	-18			0			
15:00	-18			0			
15:30	-18			0			
16:00	-18			0			
16:30	-18			0			
17:00	-18			0			
17:30	-18			0			
18:00	-18			0			
18:30	-18			0			
19:00	-18			0			
20:00	-18			0			
21:00	-18			0			
22:00	-18			0			
23:00	-18			0			
24:00	-18			0			

Site Location: Short Stop				Date: 8/26/14 and 8/27/14			
Site Conditions: Site was in good condition. Wells were found in good condition.							
AFVR Contractor: Vacuum Recovery Technologies, LLC		Field Personnel: KLM Environmental, LLC: C. Austin, J. Boots, S. Holmes		General Weather Conditions: Clear			
	Inches of Hg on Extraction Well**			**Inches of Hg on adjacent well**			
Time	**MW-3R**	**MW-**	**MW-**	**MW-2R**			
8/26/14							
08:00	-18			0			
09:00	-18			0			
10:00	-18			0			
11:00	-18			0			
12:00	-18			0			
14:00	-18			0			
16:00	-18			0			
18:00	-18			0			
20:00	-18			0			
22:00	-18			0			
24:00	-18			0			
8/27/14							
08:00	-18			0			
10:00	-18			0			
12:00	-18			0			
14:00	-18			0			
16:00	-18			0			
18:00	-18			0			
20:00	-18			0			
22:00	-18			0			
24:00	-18			0			

Site Location: Short Stop				Date: 8/28/14 and 8/29/14			
Site Conditions: Site was in good condition. Wells were found in good condition.							
AFVR Contractor: Vacuum Recovery Technologies, LLC		Field Personnel: KLM Environmental, LLC: C. Austin, J. Boots, S. Holmes		General Weather Conditions: Clear			
	Inches of Hg on Extraction Well**			**Inches of Hg on adjacent well**			
Time	**MW-3R**	**MW-**	**MW-**	**MW-2R**			
8/28/14							
08:00	-18			0			
10:00	-18			0			
12:00	-18			0			
14:00	-18			0			
16:00	-18			0			
18:00	-18			0			
20:00	-18			0			
22:00	-18			0			
24:00	-18			0			
8/29/14							
08:00	-18			0			
10:00	-18			0			
11:00	-18			0			

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Vacuum Gauge Table
Short Stop
613 Musgrove Street
Clinton, SC
Site ID# 05678
8/28/14 and 8/29/14

Equations to determine Pollutant Mass Removal rate as gasoline (PMRg):

8/25/14 to 8/29/14 MW-3R

$PPM_w = PPM_{measured}$ = 15000

$PPM_d = PPM_w / (1-Bws)$ = 16009.4

$PPM_c = (PPM_d)(K)$ = 64037.6

$C_{c:m} = PPM_c(M_c/K_3)$ = 31952.28816

$C_c = C_{c:m}(62.43x10^{-9})$ = 0.001994781

$PMR_c = C_c(Qstd)(60)$ = 59.98083161

$PMR_g = (PMR_c)(M_g/M_{cg})$ = **69.4160186 lbs of emissions per hour**

1066.230046 Gallons of emissions per 96 hours

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Short Stop | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: K L M Env | Phone ( ) | P O #:

4. Transporter Company Name: | Phone ( )

Truck & Trailer License Number: Vacuum Recovery Tech

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address: US Water Recovery, 511 Old Mt. Holly Rd., Goose Creek, SC 29445 | Phone: (843) 797-8674 | Fax: (843) 797-2126

Mailing Address: US Water Recovery, 511 Old Mt. Holly Rd., Goose Creek, SC 29445 | Phone: (843) 797-3111 | Fax: (843) 797-1884

7 Facility U.S. EPA ID#:

Start Level: | End Level: | Total Gallons: | Tank Number

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				2582

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Mark Keller | Signature: Mark Keller | Date: 8-29-14

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Samuel Holmes | Signature: Samuel Holmes | Date: 8-29-14

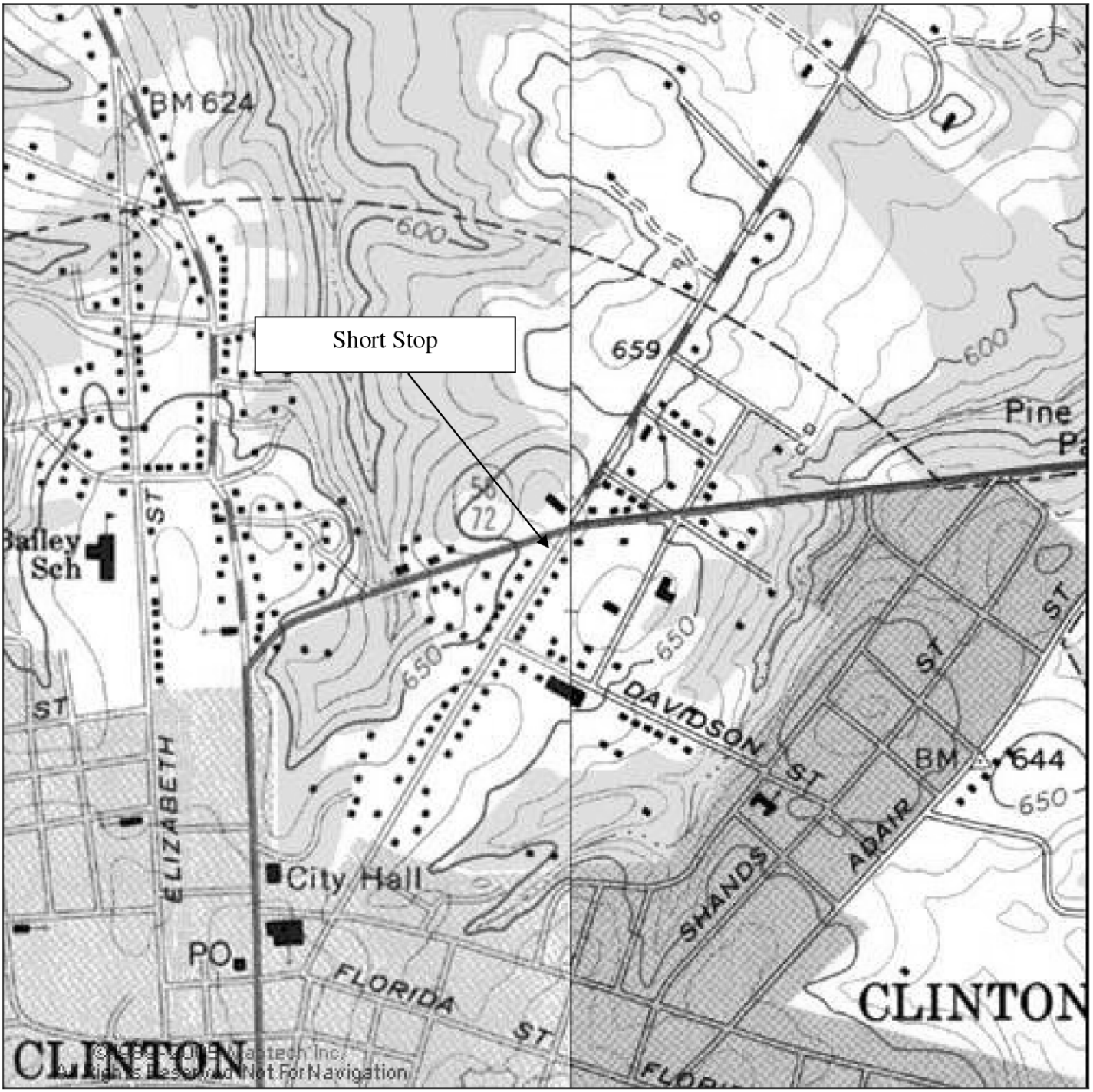
11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Dan Ward | Signature: | Date 8-29-14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

9188



KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

KLM Environmental, LLC

Phase I- Phase II Underground Storage Tanks Soil & Water Sampling- Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 3
Thermal Oxidizer
Short Stop
Clinton, SC
Project # 05143

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

MS GRETA STANLEY
WORSLEY COMPANIES INC
123 SHIPYARD BLVD
WILINGTON NC 28412

OCT 0 3 2014

Re: **Aggressive Fluid and Vapor Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA# 48899
Release reported December 30, 1991
AFVR Report received September 8, 2014
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report submitted on your behalf by KLM Environmental, LLC.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 2.0. **Please be aware that the AFVR Procedures have been updated.** One 96-hour event utilizing monitoring well MW-3R should be performed. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 36 feet in the wells. Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of Agency QAPP Revision 2.0 for the Underground Storage Tank Division is available at http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST .

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

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Cost Agreement #48899 has been approved in the amount shown on the enclosed cost agreement. KLM can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

On all correspondence concerning this site, please reference UST Permit #05678. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhec.sc.gov.

Sincerely,

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

enc: Approved Cost Agreement

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445(w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 48899

Facility 05678 SHORT STOP

UTZST

PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	18,342 25	2,201 07
23 EFR						
		A4	96 HOUR EVENT	1 0000	12,567.50	12,567 50
		C4	OFF GAS TREATMENT 96 HOUR	1 0000	780 00	780 00
		D	SITE RECONNAISSANCE	1.0000	203 25	203 25
		F1	EFFLUENT DISPOSAL	10,000 0000	0 44	4,400 00
		G	AFVR EQUIPMENT MOB	1 0000	391 50	391 50
				Total Amount		20,543 32

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 12/18/14

Permit Number 05678

Project Manager Sonya Utz

Name of Contractor KIm Environmental

UST Certification Number

Docket Number 29 tech

Scanned

96 Hour AFVR Report

KLM Environmental, LLC
Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation
PO Box 2704 843-870-4285 Phone
Goose Creek, SC 29445 843-797-1893 Fax

December 15, 2014

Ms. Sonya Utz
SCDHEC – BUSTM
2600 Bull Street
Columbia, S.C. 29201

Re: Short Stop
Permit # 05678 CA # 48899

Ms. Utz,

This letter, along with its attachments, is presented to document the results of the 96 hour Aggressive Fluid Vapor Recovery (AFVR) event performed on December 8th through December 12th, 2014. As requested in the directive, the event was conducted on MW-3R. MW-3R was gauged prior to and again after the AFVR event was completed using a Keck Oil/Water Interface Probe. A total of 4,500 gallons of contaminated groundwater was recovered during the 96 hour event. Emission calculations were performed for the event and a total of 33.09 gallons were recovered as vapor over the 96 hour event. Off gas treatment was conducted utilizing a thermal oxidizer designed to destroy 99+% of all contaminants put through the system. A photograph of the unit is included along with brief specifications. Prior to the event the well was gauged and 1.92 feet of free phase product was present. At the conclusion of the event the well was gauged again with no free product detected. The MiniRAE 3000 was utilized to collect the off gas readings for this event.

All of the remaining information requested in the AFVR letter is provided as an attachment. It has been a pleasure working with you on this project. Please call me directly if you have any questions at 843-870-4285.

Sincerely,

KLM Environmental, LLC

Mark L. Keller, PG
President

Enclosures (13): AFVR Information Tables; Vacuum Gauge Tables; Emission Calculation; Waste Manifest; USGS Map; Site Map; Thermal Oxidizer Photograph; Thermal Oxidizer Specifications

Site Location: Short Stop Clinton			Date: 12/08/2014
Site Conditions: Site was in good condition. Wells were found in good condition.			
AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Chris Austin		General Weather Conditions: Sunny/Clear
Ambient Air Temperature: 55F	Estimated Gallons of Product Removed:		Initial Product Thickness: RW-3R = 1.92
Final Product Thickness: RW-3R = 0.0	AFVR Start Time: 12/08/2014 10:00		AFVR End Time: 12/12/2014 10:00

	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
Time	Well RW-3R			Vacuum in Inches of Hg	Temp in F	Stack Vel. mph	Humidity	Air Flow (CFM)	PID Pre-Treatment	PID Post-Treatment	
10:00	29.20			-20	60.3	8.5	82.7	61.26	2838	28.4	
10:30	29.70			-20	59.1	8.4	71.5	60.54	2944	29.4	
11:00	30.20			-20	59.4	8.5	83.7	61.26	2136	21.4	
11:30	30.70			-20	60.8	8.3	80.6	59.82	2610	26.1	
12:00	31.20			-20	62.7	8.0	82.4	57.66	2581	25.8	
12:30	31.70			-20	57.3	8.2	79.2	59.10	2291	22.9	
13:00	32.20			-20	61.5	7.9	78.6	56.94	2008	20.1	
13:30	32.70			-20	62.8	7.8	79.8	56.21	2097	21.0	
14:00	33.20			-20	63.1	8.1	77.4	58.38	1838	18.4	
14:30	33.70			-20	64.6	8.4	78.2	60.54	1562	15.6	
15:00	34.20			-20	61.7	8.5	73.6	61.26	1720	17.2	
15:30	34.70			-20	62.3	8.3	75.5	59.82	1938	19.4	
16:00	35.20			-20	61.1	8.4	77.3	60.54	1877	18.8	
16:30	35.70			-20	63.9	8.0	73.1	57.66	1329	13.3	
17:00	36.00			-20	60.2	8.2	74.6	59.10	1478	14.8	
17:30	36.00			-20	62.8	7.8	70.2	56.21	1699	17.0	
18:00	36.00			-20	63.1	7.9	69.9	56.94	1273	12.7	
19:00	36.00			-20	65.2	7.8	67.2	56.21	1381	13.8	
20:00	36.00			-20	63.9	7.7	69,7	55.49	1192	11.9	
21:00	36.00			-20	58.1	8.0	65.1	57.66	1201	12.0	
22:00	36.00			-20	57.4	8.3	64.8	59.82	908.1	9.1	
23:00	36.00			-20	52.7	8.2	68.2	59.10	873.9	8.7	
24:00	36.00			-20	47.3	8.2	69.9	59.10	1045	10.5	

	Start	End
MW-3R	29.20 – 31.12	37.21

Site Location: Short Stop	Date: 12/09/2014 – 12/10/2014
Site Conditions: Site was in good condition. Wells were found in good condition.	

AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Chris Austin	General Weather Conditions: Cloudy
Ambient Air Temperature: 56F	Estimated Gallons of Product Removed:	Initial Product Thickness: RW-3R = 1.92
Final Product Thickness: RW-3R = 0.0	AFVR Start Time: 12/08/2014 10:00	AFVR End Time: 12/12/2014 10:00

	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
Time	Well RW-3R	Well	Well	Vacuum in Inches of Hg	Temp in F	Stack Vel. mph	Humidity	Air Flow (CFM)	PID Pre-Treatment	PID Post-Treatment	
12/09/2014											
08:00	30.00			-18	44.8	7.7	73.6	55.49	721.3	7.2	
09:00	30.00			-18	46.1	7.9	72.1	56.94	832.8	8.3	
10:00	30.00			-18	49.3	8.3	66.4	59.82	762.9	7.6	
11:00	30.00			-18	51.3	8.1	68.8	58.38	703.1	7.0	
12:00	30.00			-18	54.8	8.4	71.5	60.54	539.2	5.4	
14:00	30.00			-18	53.1	8.2	70.9	59.10	444.8	4.4	
16:00	30.00			-18	55.2	8.2	67.3	59.10	517.8	5.2	
18:00	30.00			-18	60.3	8.0	63.4	57.66	675.4	6.8	
20:00	30.00			-18	57.1	8.3	68.8	59.82	834.9	8.3	
22:00	30.00			-18	52.8	8.1	66.5	58.38	756.6	7.6	
24:00	30.00			-18	50.9	8.4	64.3	60.54	587.2	5.9	
12/10/2014											
08:00	36.00			-18	46.9	8.3	58.4	59.82	465.1	4.7	
10:00	36.00			-18	46.1	7.8	62.6	56.21	381.8	3.8	
12:00	36.00			-18	48.6	7.8	60.8	56.21	547.9	5.5	
14:00	36.00			-18	54.7	7.6	63.4	54.77	589.6	5.9	
16:00	36.00			-18	57.2	7.9	61.1	56.94	522.3	5.2	
18:00	36.00			-18	59.1	8.1	67.3	58.38	562.9	5.6	
20:00	36.00			-18	55.7	8.3	68.2	59.82	489.5	4.9	
22:00	36.00			-18	54.2	7.8	66.3	56.21	435.6	4.4	
24:00	36.00			-18	50.4	8.2	65.4	59.10	537.5	5.4	

	Start	End
MW-3R	29.20 – 31.12	37.20

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

AFVR Table
Short Stop
613 Musgrove St.
Clinton, SC
Site ID # 05678
12/09/2014 – 12/10/2014

Site Location: Short Stop	Date: 12/11/2014 – 12/12/2014
Site Conditions: Site was in good condition. Wells were found in good condition.	

AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Chris Austin	General Weather Conditions: Sunny/Clear
Ambient Air Temperature: 56F	Estimated Gallons of Product Removed:	Initial Product Thickness: RW-3R = 1.92
Final Product Thickness: RW-3R = 0.0	AFVR Start Time: 12/08/2014 10:00	AFVR End Time: 12/12/2014 10:00

	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
Time	Well RW-3R	Well	Well	Vacuum in Inches of Hg	Temp in F	Stack Vel. mph	Humidity	Air Flow (CFM)	PID Pre-Treatment	PID Post-Treatment	
12/09/2014											
08:00	30.00			-18	42.8	7.1	61.6	51.17	235.1	2.4	
09:00	30.00			-18	44.1	7.4	62.1	53.33	241.9	2.4	
10:00	30.00			-18	47.3	7.3	56.4	52.61	287.6	2.9	
11:00	30.00			-18	50.3	7.1	58.8	51.17	301.5	3.0	
12:00	30.00			-18	52.8	7.4	61.5	53.33	265.6	2.7	
14:00	30.00			-18	51.1	7.2	60.9	51.89	247.7	2.5	
16:00	30.00			-18	53.2	7.2	57.3	51.89	266.7	2.7	
18:00	30.00			-18	58.3	7.4	53.4	53.33	272.1	2.7	
20:00	30.00			-18	55.1	7.7	58.8	55.49	212.9	2.1	
22:00	30.00			-18	54.8	7.4	56.5	53.33	222.6	2.2	
24:00	30.00			-18	52.9	7.2	54.3	51.89	238.1	2.4	
12/10/2014											
08:00	36.00			-18	45.9	7.3	48.4	52.61	198.3	2.0	
10:00	36.00			-18	48.1	7.2	52.6	51.89	211.0	2.1	

	Start	End
MW-3R	29.20 – 31.12	37.20

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

AFVR Table
Short Stop
613 Musgrove St.
Clinton, SC
Site ID # 05678
12/11/2014 – 12/12/2014

Site Location: Short Stop, Clinton	Date: 12/08/2014
Site Conditions: Site was in good condition. Wells were found in good condition.	

AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Chris Austin	General Weather Conditions: Clear

	Inches of Hg on Extraction Well**			**Inches of Hg on adjacent well**			
Time	**RW-3R**			**MW-2R**	**MW-20**	**MW-5**	
10:00	-14			-0	-0	-0	
10:30	-14			-0	-0	-0	
11:00	-14			-0	-0	-0	
11:30	-15			-0	-0	-0	
12:00	-15			-0	-0	-0	
12:30	-14			-0	-0	-0	
13:00	-14			-0	-0	-0	
13:30	-14			-0	-0	-0	
14:00	-14			-0	-0	-0	
14:30	-14			-0	-0	-0	
15:00	-14			-0	-0	-0	
15:30	-15			-0	-0	-0	
16:00	-14			-0	-0	-0	
16:30	-14			-0	-0	-0	
17:00	-14			-0	-0	-0	
17:30	-14			-0	-0	-0	
18:00	-14			-0	-0	-0	
19:00	-15			-0	-0	-0	
20:00	-14			-0	-0	-0	
21:00	-15			-0	-0	-0	
22:00	-14			-0	-0	-0	
23:00	-14			-0	-0	-0	
24:00	-14			-0	-0	-0	

Site Location: Short Stop Clinton			Date: 12/09/2014 and 12/10/2014
Site Conditions: Site was in good condition. Wells were found in good condition.			
AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Chris Austin		General Weather Conditions: Clear

	Inches of Hg on Extraction Well**			**Inches of Hg on adjacent well**			
Time	**RW-3R**			**MW-2R**	**MW-20**	**MW-5**	
12/09/2014							
08:00	-14			0	0	0	
09:00	-15			0	0	0	
10:00	-14			0	0	0	
12:00	-14			0	0	0	
14:00	-15			0	0	0	
16:00	-16			0	0	0	
18:00	-14			0	0	0	
20:00	-14			0	0	0	
22:00	-14			0	0	0	
24:00	-14			0	0	0	
12/10/2014							
08:00	-14			0	0	0	
10:00	-15			0	0	0	
12:00	-15			0	0	0	
14:00	-14			0	0	0	
16:00	-14			0	0	0	
18:00	-14			0	0	0	
20:00	-14			0	0	0	
22:00	-14			0	0	0	
24:00	-14			0	0	0	

Site Location: Short Stop Clinton				Date: 12/11/2014 and 12/12/2014			
Site Conditions: Site was in good condition. Wells were found in good condition.							
AFVR Contractor: Vacuum Recovery Technologies, LLC	Field Personnel: KLM Environmental, LLC: Chris Austin			General Weather Conditions: Clear			
	Inches of Hg on Extraction Well**			**Inches of Hg on adjacent well**			
Time	**RW-3R**			**MW-2R**	**MW-20**	**MW-5**	
12/11/2014							
08:00	-14			0	0	0	
09:00	-14			0	0	0	
10:00	-15			0	0	0	
12:00	-14			0	0	0	
14:00	-14			0	0	0	
16:00	-14			0	0	0	
18:00	-15			0	0	0	
20:00	-14			0	0	0	
22:00	-14			0	0	0	
24:00	-14			0	0	0	
12/12/2014							
08:00	-14			0	0	0	
10:00	-14			0	0	0	

Equations to determine Pollutant Mass Removal rate as gasoline (PMRg):

12/08/14 to 12/12/14 MW-3R

$PPM_w = PPM_{measured}$ = 998.7375

$PPM_d = PPM_w / (1-Bws)$ = 1065.945876

$PPM_c = (PPM_d)(K)$ = 4263.783502

$C_{c:m} = PPM_c(M_c/K_3)$ = 2127.463226

$C_c = C_{c:m}(62.43x10^{-9})$ = 0.000132818

$PMR_c = C_c(Qstd)(60)$ = 1.861689149

$PMR_g = (PMR_c)(M_g/M_{cg})$ = **2.154539127 lbs of emissions per hour**

33.093721 Gallons of emissions per 96 hours

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

Phone ( )

P O #:

Short Stop Clinton SC

3. Agent of Generator and Mailing Address:

Phone ( )

P O #:

KLM ENV

4. Transporter Company Name:

Phone ( )

Truck & Trailer License Number: Vacuum Recovery Tech

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:
US Water Recovery
511 Old Mt. Holly Rd.
Goose Creek, SC 29445

Phone: (843) 797-8674

Fax: (843) 797-2126

Mailing Address:
US Water Recovery
511 Old Mt. Holly Rd.
Goose Creek, SC 29445

Phone: (843) 797-3111

Fax: (843) 797-1884

7 Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				3000 Gals

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Mark Keller Signature: Mark Keller Date: 12-11-14

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Samuel Holmes Signature: Samuel Holmes Date: 12-11-14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Signature: Date 12-11-14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

11241

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

Short Stop Clienton S.C.

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:

KLM ENV

Phone ( )

P O #:

4. Transporter Company Name:

Vacuum Recovery Tech

Phone ( )

Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:
US Water Recovery
511 Old Mt. Holly Rd.
Goose Creek, SC 29445

Phone: (843) 797-8674

Fax: (843) 797-2126

Mailing Address:
US Water Recovery
511 Old Mt. Holly Rd.
Goose Creek, SC 29445

Phone: (843) 797-3111

Fax: (843) 797-1884

7 Facility U.S. EPA ID#:

Start Level:

End Level:

Total Gallons:

Tank Number

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				1500 Gals

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Mark Keller Signature: Mark Keller Date: 12-15-14

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Samuel Holmes Signature: Samuel Holmes Date: 12-15-14

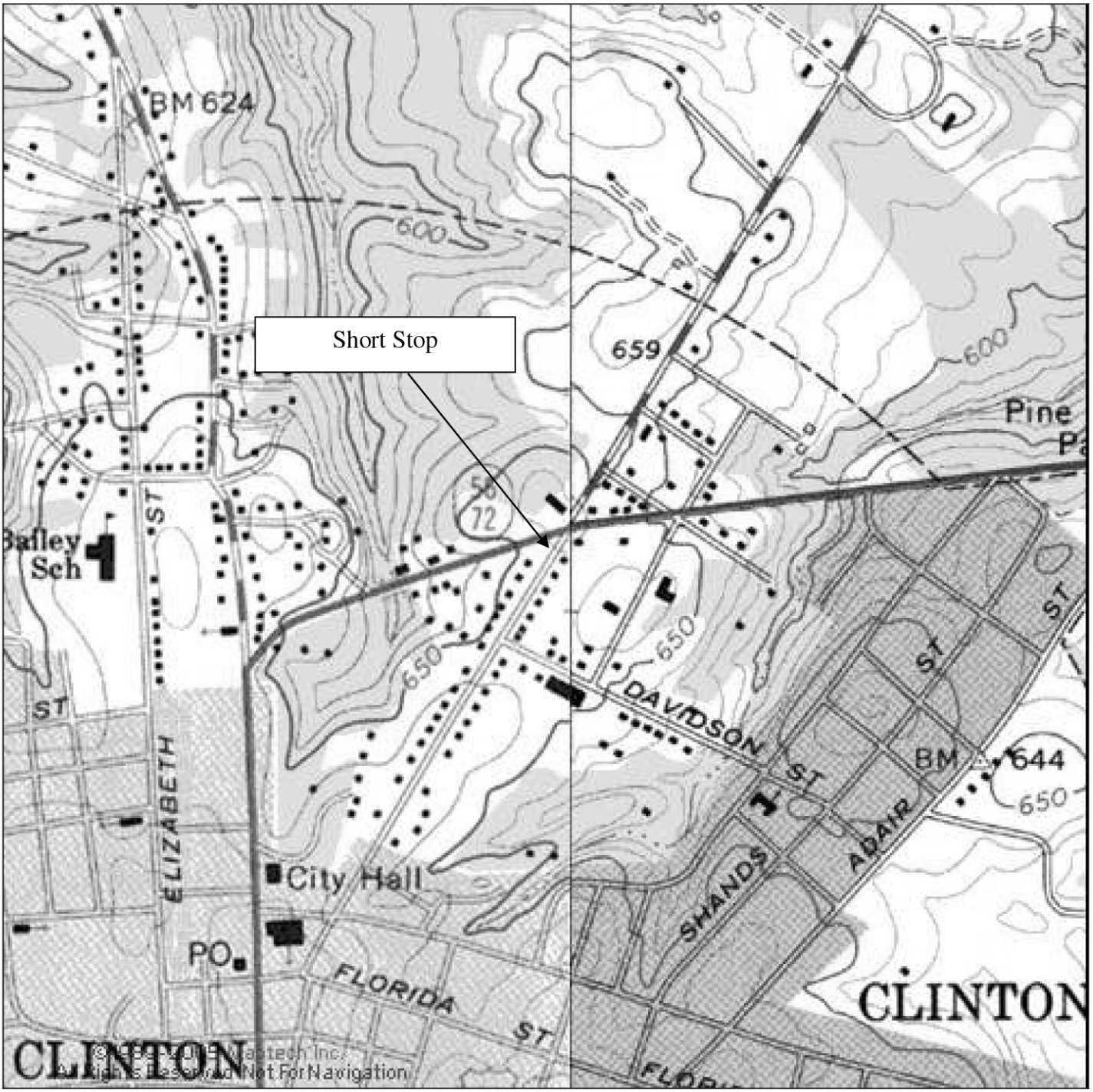
11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Justin Goerdell Signature: [signature] Date 12-15-14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

11246



KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

KLM Environmental, LLC

Phase I- Phase II Underground Storage Tanks Soil & Water Sampling- Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 3
Thermal Oxidizer
Short Stop
Clinton, SC
Project # 05143

QUOTATION #7504 Rev-2

October 3, 2013

Mark Keller
KLM Environmental (843) 870-4285

Re: 500 CFM Thermal Oxidizer No VES

500-CFM Thermal Oxidizer General Specifications

Baker Furnace, Inc. is pleased to present this proposal to **KLM Environmental** for a Gas Fired 500-CFM Thermal Oxidizer System. This Oxidizer would be constructed as a "turnkey" system ready for operation and would have all the necessary instrumentation and controls to meet applicable Air Quality Standards. We are sure you will find our quality, value and services exceptional!

One (1) Gas Fired Thermal Oxidizer sized for 500 *SCFM*. Trailer Mounted System includes an FM Approved Flame Arrester, Air Pressure Switch, Pitot Tube with Pressure Transmitter, Carbon Steel Shell Insulated with High Temperature Insulation, U.L Classified Nema 4 Control Panel, Eclipse Package Burner with integrated combustion blower, Fully Modulating FM Fuel Train, and misc. Wiring and Piping.

500 SCFM Thermal/Catalytic Oxidizer Technical Specifications

Parameter	Thermal Mode
Destruction Efficiency	99%+
Operating Temperature	1450 Degrees F
Supplemental Fuel	Propane or Natural Gas
Maximum Concentration to Oxidizer	50% of LEL
Combustion Burner	Eclipse Ratio Air 1.5mm btu
Vacuum available	VES By Others
Stack Height (Discharge height)	Min. 13.5 feet from ground
Exit Velocity (No Rain Cap)	600 feet/min
Chart Recorder Measurements (3)	Temp In-Out & Flow
Overall Dimensional Footprint	7' x 11'L
Approximate Shipping Weight	5,500 lbs.
Inlet Pipe size for VES.	4" N.P.T.
Inlet pipe size for Supplemental Fuel	1" N.P.T.
Inlet Gas pressure required	5 PSI (Medium Pressure)
Fuel Supply Requirement (at meter)	1000 ft^3/hr.
Electrical Service	120/240 VAC 1∅
Dilution Air Blower	500 CFM Max
Residence Time for Vapors Oxidized	1-second residence time.

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
P O BOX 3227
WILMINGTON NC 28406-3227

DEC 28 2007

Re: Assessment Directive
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA# 31355 ; MWA#UMW-21367
Release reported December 30, 1991
Monitoring report received November 16, 2007
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing KLM Environmental, LLC as your contractor. The Program has reviewed the referenced report and determined the next necessary scope of work to be an additional monitoring well installation (including replacement of MW-3 and MW-4) and comprehensive groundwater sampling event to complete the horizontal delineation of the plume prior to the appropriate corrective action for the release. Please refer to the enclosed site map for proposed well locations. An updated receptor survey and a comprehensive survey will be necessary also.

Cost Agreement #31355 has been approved in the amount shown on the enclosed cost agreement form to install up to five shallow wells (three of them based on field screening analytical data) and sample all monitoring wells (existing and newly installed) associated with the release. Groundwater samples from all monitoring wells should be analyzed for BTEX, naphthalene, MtBE, lead, 1,2 DCA, EDB, 8 oxygenates, nitrates, sulfates, and ferrous iron. Additionally, laboratory analyses have been provided for six groundwater-screening samples for BTEX, naphthalene, and MtBE to ensure the down gradient edge of the plume is defined. All analyses should be in accordance with *Analytical Methodology* dated August 24, 2005. A copy of this publication is available on line at http://www.scdhec.gov/eqc/ admin/html/..%5C..%5Cust% 5Cpubs% 5Canalmet.pdf. **Please use low detection limits/reporting levels. Note that the Program will deny payment for any non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL).** Please note that purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have KLM Environmental, LLC submit results to the Program in an assessment report containing the following items:

- The site map shall conform to industry standards and must include: a north arrow, a legend, a bar scale, and the date. Identify the site by Facility name, address, and UST permit number. The map should indicate the location and identity of all structures, existing and/or former UST(s), AST(s) and associated piping. Identify all streets and/or highways; locate property lines, paved areas, on site or adjacent to, and existing monitoring wells.
- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, dissolved oxygen, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Well measurements (groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth, screened interval) and groundwater laboratory analytical data for all

UST PROGRAM
DOCKETING # 3

monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular format.

- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Boring Logs and Well Logs (SCDHEC form 1903) signed by a SC Certified well driller for each new well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

KLM Environmental, LLC can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and invoice are due within 60 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

The Program grants pre-approval for transportation of virgin petroleum contaminated soil and groundwater from the referenced site to a permitted treatment facility. The contaminated soil or groundwater 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 as an appendix to the final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or groundwater.

On all correspondence concerning this site, please reference **UST Permit # 05678.** If there are any questions concerning this project, please contact me at (803) 896-6664.

Sincerely,

Maia Milenkova, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Monitoring Well Approval
Site map

cc: Technical File (w/enc.)
KLM Environmental, LLC P O Box 2704, Goose Creek, SC 29445 (w/enc.)

SCDHEC/UST/11/29/07/MPM

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Approval Form

Approval is hereby granted to: KLM Environmental, LLC
(On behalf of): Worsley Companies, Inc.
UST Permit #: **05678**
Facility: Short Stop, 613 Musgrove Street, Clinton, SC
County: Laurens

This approval is for the installation of eleven groundwater monitoring wells (six temporary and five shallow). The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the 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 Maia Milenkova (tel: 803 896-6664 or e-mail: milenkmp@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 Issuance: December 13, 2007 **Approval #: UMW- 21367**

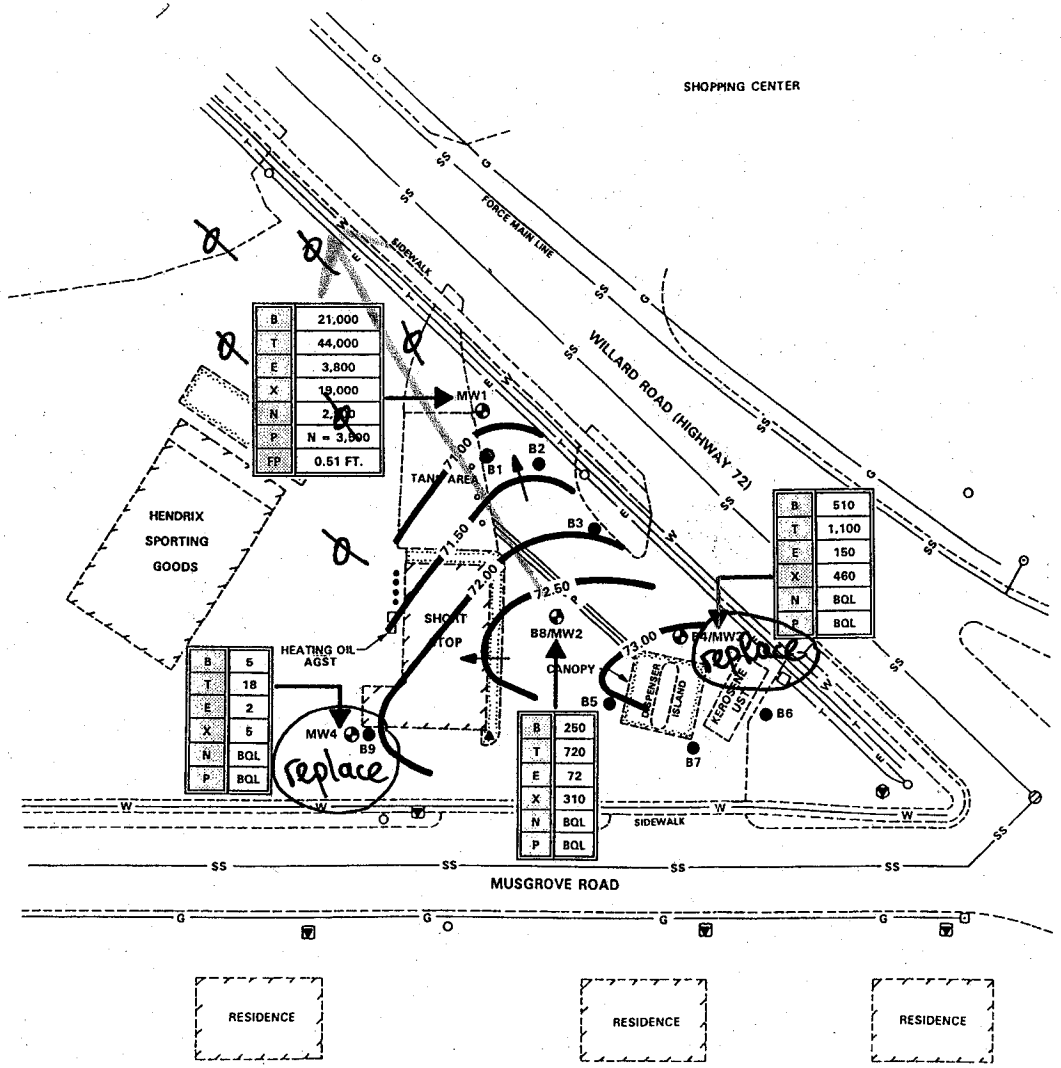
Maia Milenkova

Maia Milenkova, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

SHORT STOP (SCOTCHMAN #74)

CLINTON, SC

CES PROJECT #91258



N

0' 40' 80'

SCALE

LEGEND

- TANK FILL
- BENCHMARK (ASSUMED 100.0')
- POWER POLE
- TANK VENT
- SANITARY SEWER CLEANOUT
- NATURAL GAS JUNCTION BOX
- TELEPHONE BOOTH
- WATER METER
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- -E- OVERHEAD POWER LINE
- -T- TELEPHONE LINE
- -G- NATURAL GAS LINE
- -SS- SANITARY SEWER LINE
- -W- WATER LINE
- -P- PRODUCT LINE
- MONITORING WELL
- SOIL BORING

WELL #	WATER TABLE ELEVATION
MW1	70.80
B8/MW2	72.86
B4/MW3	73.02
MW4	71.89

NOTE:

1) CONTOUR INTERVAL = 0.5 FT.
2) ALL ELEVATIONS ARE MEASURED RELATIVE TO AN ASSUMED 100.00 FT. BENCHMARK.
3) ALL CONCENTRATIONS ARE REPRESENTED IN PARTS PER BILLION (ppb).
4) MW1 LABORATORY RESULTS WERE TAKEN FROM IGWA (CES 3/97); WELL CONTAINED 0.51 FT. OF FREE PRODUCT DURING CURRENT STUDY.
5) ARROWS DEPICT THE APPARENT DIRECTION OF GROUNDWATER FLOW.

ϕ field screening points w/ lab data for BTEX, Naph, MtBE (groundwater)

contractor

WATER T/
GROUND
DATA AS C

Approved Cost Agreement 31355

Facility: 05678 SHORT STOP
MILENKMP
PO Number:

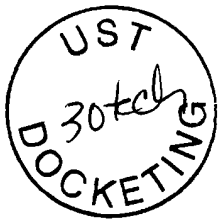
Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
02 RECEPTOR SURVEY					
		RECEPTOR SURVEY	1.0000	500.00	500.00
03 COMPREHENSIVE SURVEY					
		COMPREHENSIVE SURVEY	1.0000	1,000.00	1,000.00
04 MOB/DEMOB					
		A EQUIPMENT	2.0000	550.00	1,100.00
		B PERSONNEL	4.0000	275.00	1,100.00
06 SOIL BORINGS (DRILLED)					
		A SOIL BORINGS & FLD SCREENING	180.0000	17.00	3,060.00
08 ABANDONMENT					
		ABANDONMENT	180.0000	5.00	900.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	175.0000	38.00	6,650.00
10 SAMPLE COLLECTION					
		A GROUND WATER	5.0000	55.00	275.00
		E GAUGE WELL ONLY	1.0000	20.00	20.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	11.0000	100.00	1,100.00
		BB 1,2-DCA	5.0000	10.75	53.75
		E LEAD	5.0000	20.00	100.00
		F EDB	5.0000	55.00	275.00
		K NITRATE	5.0000	20.00	100.00
		L SULFATE	5.0000	20.00	100.00
		M FERROUS IRON	5.0000	20.00	100.00
		P 8 OXYGENATES	5.0000	85.00	425.00
16 SUBSEQUENT SURVEY					
		SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	1.0000	90.00	90.00
		C SOIL (TREATMENT/DISPOSAL)	6.0000	50.00	300.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	17,508.75	2,626.31
				Total Amount	20,135.06

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

CERTIFIED MAIL #9214 8969 0099 9790 1402 1872 97

MS GRETA STANLEY
SEABOARD PETROLEUM
123 SHIPYARD BLVD
WILMINGTON NC 28412

SEP 1 4 2015



Re: **Corrective Action Options**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678
Release Reported December 30, 1991
Monitoring Report received May 22, 2014
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report submitted by KLM Environmental on your behalf. The report indicates that active corrective action is necessary at the site to mitigate petroleum impact and ensure that there is no detrimental exposure to human health or the environment.

Funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account will soon be available for active corrective action. The selected technology must remove all free phase petroleum product and reduce the petroleum chemicals of concern (CoC) concentrations to site-specific target levels (SSTLs) determined by the Division.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by an Agency-certified site rehabilitation contractor. As the owner/operator for the release reported on December 30, 1991 you may choose one of two options as to how to proceed with this requirement: state lead or owner/operator lead.

State Lead Option:

- If you choose the state lead option, the Division will procure a certified site rehabilitation contractor to perform corrective action on your behalf. The Agency will enter into an enforceable contract with the awarded contractor. As long as you do not interfere with or prohibit the work at your site, you will not be responsible in the event the state selected contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals. To utilize the state lead option, please sign and return the applicable Permission and Right-of-Entry forms within 15 days of the date of this letter.

Owner/Operator Lead Option:

- If you select the owner/operator lead option, you will be required to select a contractor to perform the corrective action. In order to assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, the Division will prepare a technical specification package and provide you copies to send to contractors of your choice. In addition, the Division will announce the request for solicitations in the South Carolina Business Opportunities, a bi-weekly state government publication, to ensure that an adequate solicitation response is obtained so that a fair and competitive price can be established. This announcement will clearly indicate that you will select the contractor to implement the corrective action.
- Compensation to the contractor will be from the SUPERB Account, but you may have the obligation to pay your selected contractor for any costs not approved by the Agency.
- The Division strongly suggests that a written contract between you and the selected contractor be developed following the completion of the solicitation process. The parties to this contract would be you and the contractor you choose; the Agency would not be a party to this contract. The Division's function would be to monitor and ensure progress of corrective action activities.
- If the contractor you select does not or cannot complete the required activities, you will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount. No additional funding from the SUPERB Account may be allowed. Under R.61-92, Part 280 of the Underground Storage Tank Control Regulations, you as the owner/operator are ultimately responsible to the Agency for the actions of your contractor. The Agency will pursue enforcement actions against you if the contractor you select does not make satisfactory progress towards achieving established corrective actions goals. To utilize the owner/operator lead option, please sign and return the enclosed Active Corrective Action Options Form within 15 days of the date of this letter.

On all correspondence or inquiries regarding this project, please reference UST Permit **#05678**. If you have any questions, please contact me at (803) 898-0631 or Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Permission/Right-of-Entry forms
Active Corrective Action Options form

cc: KLM Environmental, LLC, P.O. Box 2704, Goose Creek, SC 29445(w/ enc)
Technical File (w/ enc)

Ms. Stanley
UST# 05678-ACA options

State Lead Option

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #05678

If you are both the owner of the former or existing underground storage tanks for the release reported on December 30, 1991 and the current property owner, please complete this form.

I, _____, certify that I am the identified legal owner of the underground storage tanks for the release reported on December 30, 1991 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 (Agency) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize the Agency, or a contractor selected by the Agency, 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 the Agency or its contractor 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 Division of Underground Storage Tank Management in writing.

Name of Facility _____Short Stop_____Phone # _____

Street Address of Facility _____613 Musgrove St._____

Town, City, District, Suburb _____Clinton_____

Name of nearest intersecting street, road, highway, alley _____

_____Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or 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 _____, phone number _____

Is the property currently leased or rented to someone? (yes or no) _____. If yes, please provide their name _____and phone number _____

_____and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before the Agency's contractor arrives at the site.

NAME of UST/property owner (Please Print):_____

Phone Number (home)_____(work)_____

Signature of UST/property Owner:_____

Witness:_____

Date:_____Month _____Day_____Year

Attn: Adam Looper

Ms. Stanley
UST# 05678-ACA options

State Lead Option

PERMISSION FORM

UNDERGROUND STORAGE TANK OWNER

UST Permit **#05678**

If you are the owner of the former or existing underground storage tanks for the release reported on December 30, 1991 or are designated as their authorized representative, but do not own the property, please complete this form.

I, _____ certify that I am the legal owner of the former and/or existing underground storage tank(s) located at the facility identified below and for the release reported on December 30, 1991 or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Division of Underground Storage Tank Management in writing.

Name of Facility Short Stop Phone # _____

Street Address of Facility 613 Musgrove St.

Town, City, District, Suburb Clinton

Name of nearest intersecting street, road, highway, alley _____

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

Does a public water or sewer utility service this facility? (yes or 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 _____, phone number _____

_____

NAME of UST owner (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST Owner:_____

Witness:_____

Date:_____Month _____Day_____Year

Attn: Adam Looper

Ms. Stanley
UST# 05678-ACA options

State Lead Option

RIGHT-OF-ENTRY FORM

PROPERTY OWNER

UST Permit **#05678**

If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, _____, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (Agency), or a contractor selected by the Agency, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Short Stop Phone # _____

Street Address of Facility 613 Musgrove St

Town, City, District, Suburb Clinton

Name of nearest intersecting street, road, highway, alley _____

_____Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or 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 _____, phone number _____

_____

Is the property currently leased or rented to someone? (yes or no) _____. If yes, please provide their name _____and phone number _____ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before the Agency's contractor arrives at the site.

NAME of Property owner (Please Print):_____

Phone Number (home)_____ (work)_____

Current Mailing Address:_____

Signature of Property Owner:_____

Witness:_____

Date:_____Month _____Day_____Year

Attn: Adam Looper

Ms. Stanley
UST# 05678-ACA options

Owner/ Operator Lead Option

ACTIVE CORRECTIVE ACTION OPTIONS FORM

UST PERMIT #05678

I, _____, certify that I am the legal owner on record for the underground storage tanks at the facility identified below for the release reported on December 30, 1991 or serve as the authorized representative for the owner. I wish to secure price quotations for corrective action activities as required by the Agency, and to select my own corrective action contractor after price quotation results are received. I understand that the Agency will also advertise for price quotations in the South Carolina Business Opportunities and provide the results to me. **I understand compensation to the contractor will be from the SUPERB Account, but I may have the obligation to pay the contractor for any costs not approved by the Agency. I understand that if the contractor I select does not or cannot complete the required activities, I will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount and that no additional funding from the SUPERB Account may be allowed. I also understand that the Agency will pursue enforcement actions against me if the contractor I select does not make satisfactory progress towards achieving established corrective actions goals.**

NAME of UST owner or authorized representative (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST Owner:_____

Date:_____

Witness:_____

Date:_____

Attn: Adam Looper

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

SEP 2 3 2015

Re: **Site Specific Work Plan Request**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678
Release reported December 30, 1991
Laurens County

Dear Ms. Jackson:

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

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) revision 2.0 and must be conducted in compliance with all applicable regulations. **All monitoring wells will need to be purged since it has been greater than 12 months since the last sampling event in accordance with the QAPP**. Groundwater samples should be collected from all monitoring wells associated with the release and analyzed for BTEX + Naphth + MtBE, 1,2 DCA, 8 oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.
A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPP_Rev-2_April2013.pdf.

Please have your contractor complete and submit the Site Specific Work Plan and Cost Agreement within thirty (30) days of the date of this letter. The Site Specific Work Plan form can be found at http://www.dhec.sc.gov/administration/library/D-0653.pdf. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #05678. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper

Adam Looper, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445
Technical File

Ms. Stanley
UST# 05678-ACA options

State Lead Option

UST
SEP 2 4 2015
PROGRAM

UST
32 pgs
DOCKETING

PERMISSION FORM

UNDERGROUND STORAGE TANK OWNER

UST Permit #05678

If you are the owner of the former or existing underground storage tanks for the release reported on December 30, 1991 or are designated as their authorized representative, but do not own the property, please complete this form.

I, W. Cecil Worsley, III certify that I am the legal owner of the former and/or existing underground storage tank(s) located at the facility identified below and for the release reported on December 30, 1991 or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Division of Underground Storage Tank Management in writing.

Name of Facility Short Stop Phone # _____

Street Address of Facility 613 Musgrove St.

Town, City, District, Suburb Clinton

Name of nearest intersecting street, road, highway, alley Willard Road

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

Does a public water or sewer utility service this facility? (yes or no) Yes, 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 _____, phone number _____

NAME of UST owner (Please Print): Seaboard Petroleum

Phone Number (home) _____ (work) 910-343-1991

Signature of UST Owner: [signature]

Witness: Greta Stanley

Date: September Month 17 Day 2015 Year

Attn: Adam Looper

D H E C
PROMOTE PROTECT PROSPER

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

UST
OCT 1 2 2015
PROGRAM

To: Adam Looper (SCDHEC Project Manager)
From: Mark Keller, PG (Contractor Project Manager)
Contractor: KLM Environmental UST Contractor Certification Number: 345

Facility Name: Short Stop UST Permit #: 05678
Facility Address: 613 Musgrove Street, Clinton, SC
Responsible Party: Worsley Companies Inc Phone: 910-343-1991
RP Address: 123 Shipyard Blvd Wilmington, NC 28412
Property Owner (if different): Arthur D Gast III
Property Owner Address: PO Box 556 Lavonia, Ga 30553
Current Use of Property: Gas station

UST
33 tech
DOCKETING

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☑ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

☐ BTEXN

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

0 Soil | 0 Water Supply Wells | 0 Air | 2 Field Blank
24 Monitoring Wells | 0 Surface Water | 2 Duplicate | 2 Trip Blank

Field Screening Methodology

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

# of shallow points proposed: NA Estimated Footage: NA feet per point
# of deep points proposed: NA Estimated Footage: NA feet per point
Field Screening Methodology: NA

Permanent Monitoring Wells

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

# of shallow wells: NA Estimated Footage: NA feet per point
# of deep wells: NA Estimated Footage: NA feet per point
# of recovery wells: NA Estimated Footage: NA feet per point
Monitoring Well development method (consistent with SOP): NA
Comments, if warranted:
NA

UST Permit #: 05678 Facility Name: Short Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Field Work Completion: 35
Report Submittal: 60 # of Copies Provided to Property Owners: _____

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

Investigation Derived Waste Disposal
Soil: NA Tons Purge Water: 150 Gallons
Drilling Fluids: NA Gallons Free-Phase Product: 0 Gallons

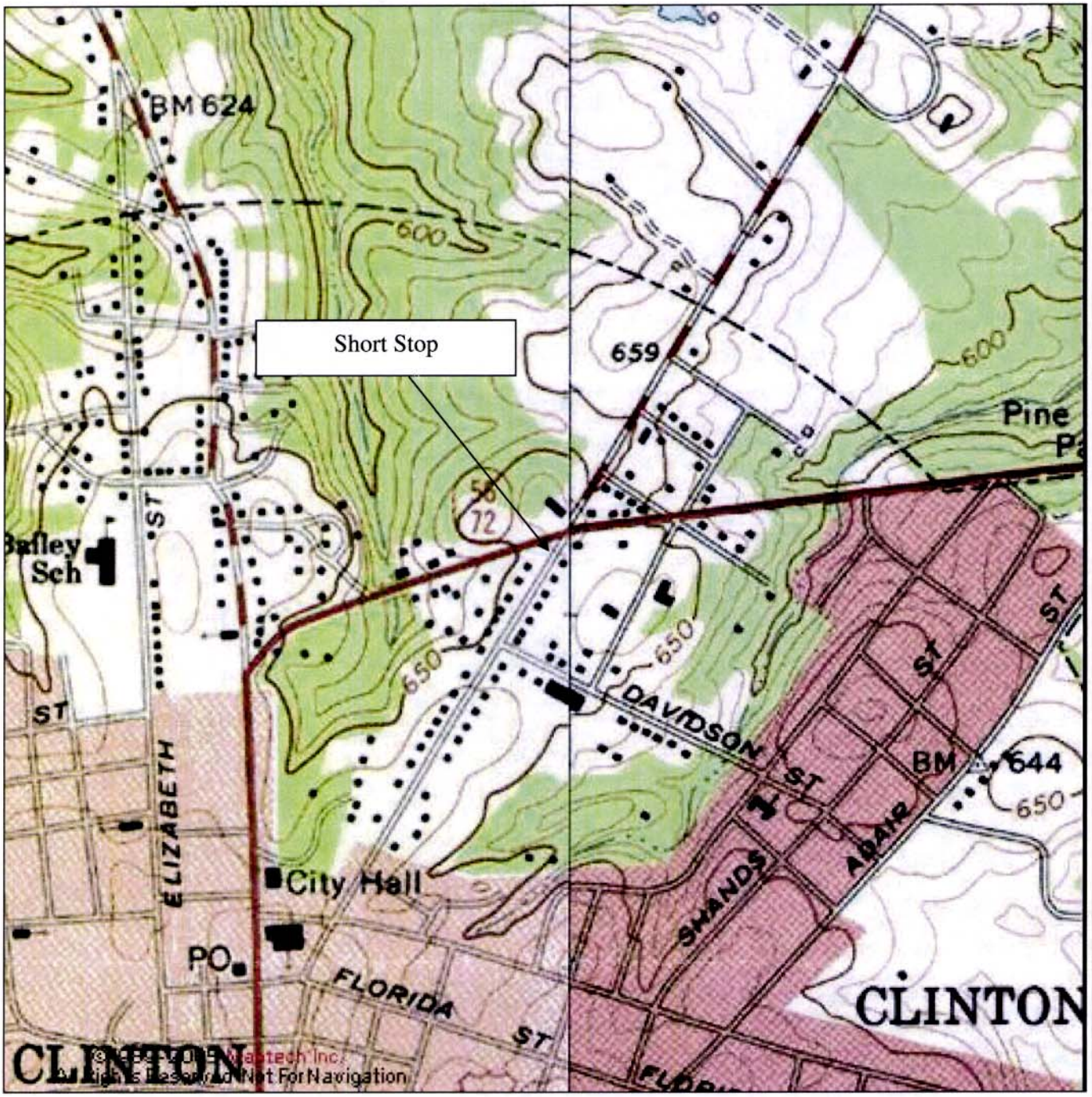
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample all monitoring wells. Purging will be required on all wells prior to sample collection.
Two mobilizations for sampling are being proposed per the standards set forth in SCDHEC Solicitation # 5400007403 where a separate personnel mobilization is allowed for every 20 monitoring wells sampled or gauged.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: Pace Laboratory
SCDHEC Certification Number: SC 99006001
Name of Laboratory Director: Jeff Graham

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

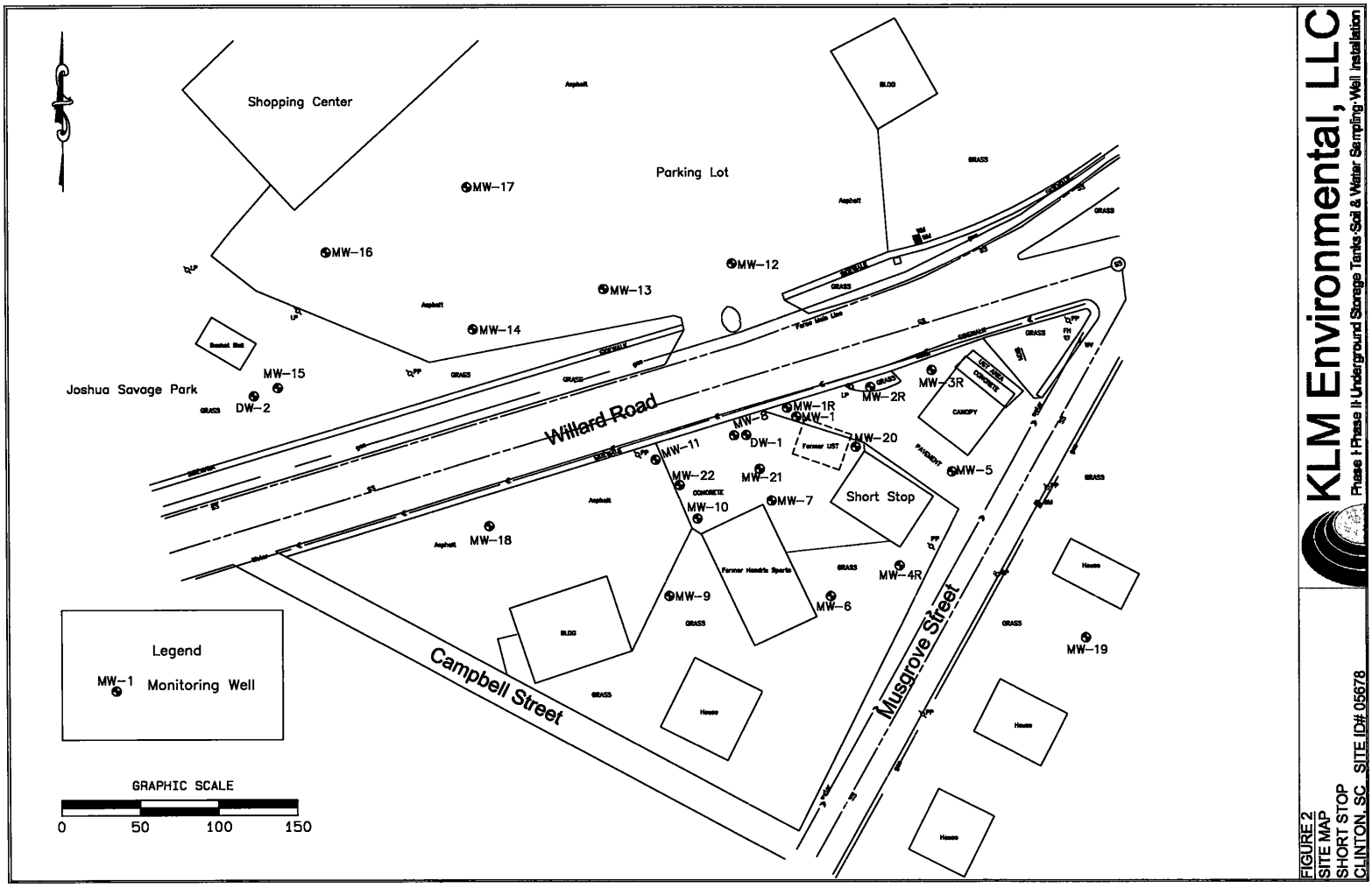
Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

May 15, 2014

Facility Name: Short Stop

UST Permit #: 05678 **Cost Agreement #:** _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel 10,10,17	3	each	$423.00	$1,269.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	24	per well/receptor	$60.00	$1,440.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater (No Purge or Duplicat	2	per well/receptor	$28.00	$56.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	2	each	$24.60	$49.20

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	30	per sample	$122.00		$3,660.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	28	per sample	$45.20		$1,265.60
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. Free Product Recovery Rate Test*		each	$38.00		$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. Subsequent Survey*		each	$260.00		$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	150	gallon	$0.56		$84.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal		ton	$60.00		$0.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. Miscellaneous (attach receipts)					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			$0.00
21. IGWA (Use DHEC 3666 form)		standard			$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$7,973.80		$956.86
TOTAL					$8,930.66

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

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MS GRETA STANLEY
WORSLEY COMPANIES INC
123 SHIPYARD BLVD
WILMINGTON NC 28412

OCT 2 8 2015

Re: **Groundwater Sampling Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit #05678; CA #51039
Release reported December 30, 1991
Site Specific Work Plan received October 12, 2015
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by KLM Environmental LLC. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 3.0, and must be conducted in compliance with all applicable regulations. A copy of the Agency's QAPP Rev. 3.0, for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPPRevision3.0.pdf.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #51039** has been approved for the amount shown on the enclosed cost agreement form for a comprehensive groundwater sampling event. Groundwater samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, 8 Oxygenates and EDB. All wells will need to be purged prior to sampling. Sampling and analyses should be conducted in accordance with Appendix F of the QAPP, Rev. 3.0, and to include duplicate samples, field and trip blanks.

The Monitoring Report and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be

completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note; if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Agency may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

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

On all correspondence regarding this site, please reference **UST Permit #05678** and **CA #51039**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0631 or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: KLM Environmental, LLC, P.O. Box 2704, Goose Creek, SC 29445 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 51039

Facility 05678 SHORT STOP

LOOPERAM

PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	150 00	150 00
04 MOB/DEMOB						
		B1	PERSONNEL	3 0000	423 00	1,269 00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	24 0000	60 00	1,440 00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2 0000	28 00	56 00
		H1	FIELD BLANK	2 0000	24 60	49 20
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	30 0000	122 00	3,660 00
		F1	EDB BY 8011	28 0000	45 20	1,265 60
17 DISPOSAL						
		AA	WASTEWATER	150.0000	0 56	84 00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	7,973 80	956 86
				Total Amount		8,930 66

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 10/22/15	Site ID #: 05678	Site Name: Short Stop
County: Laurens	Project Manager: A. Looper	Field Personnel: A. Looper, B. Arial, K. Barnes

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-3R	40	20 - 40	26.01	28.95	2.94	No	No	yes	No	yes

UST
35 feet
DOCKETING

Notes: _____

Signature: Adam Lager

-UST Field Data Information Sheet – Monitoring Well Gauging

-Purpose of the form is to record information gathered during a monitoring well gauging event
-DHEC UST Project Managers and Field Staff
-Item-by-item instructions for completing the form:
    Fill in all Site Information boxes
    Record Well Gauging Information for all necessary wells
    Record any applicable notes
    Sign the form
-Form is scanned and saved electronically; Record Group Number 169, Retention Schedule 10304

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 12-11-15

Permit Number 05678

Project Manager Adam Looper

Name of Contractor KLM Env

UST Certification Number

Docket Number 36deeh

Scanned

Monitoring Report

Monitoring Report
Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

December 2nd, 2015

Prepared for:

Mr. Adam Looper
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*
UST Contractor # 345

Project # 05143.10

SIGNATURE PAGE

This report entitled "**Monitoring Report**" for the **Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

J. Micah Bennett, PG
Vice President

Reviewed By:

Mark L. Keller, PG
President

12/2/15
Date

MARK L. KELLER
REGISTERED
No. 2311
12/2/15
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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	2.2 Groundwater Sampling	
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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina. A topographic map is provided as Figure 1 in Appendix A. The current property owner is listed as Arthur D Gast III at PO Box 556 Lavonia, GA 30553. The former UST owner responsible for the release reported on December 30th, 1991 is listed as Worsley Companies, Inc. located at 123 Shipyard Blvd. in Wilmington, NC 28412; phone 910-343-1991. KLM Environmental is the Certified UST Site Rehabilitation Contractor performing the work. KLM's address is PO Box 2704, Goose Creek, SC 29445, phone 843-870-4285. Pace Analytical Services, Inc. is the certified laboratory used to analyze the samples for this work. Pace Analytical Services main address is 9800 Kincey Ave., Suite 100, Huntersville, NC 28078, phone # 704-875-9092.

The release was reported on December 30th, 1991. The site has been undergoing assessment and monitoring activities since that date. This property is an in service gasoline dispensing station bordered by commercial and residential property.

The site is situated in the inner piedmont belt where the soil mainly consists of saprolite, sandy clays and clays that are underlined by medium to high grade metamorphic rock, such as granitic, biotitic and hornblendic rocks.

KLM Environmental conducted the majority of the previous assessment work. The Short Stop site was last sampled in May of 2014. Two 96 hour AFVR events were conducted in 2014, one in September and the other in December of 2014. This report serves to document the current groundwater data at the Short Stop site.

2.0 GROUNDWATER INFORMATION

2.1 Piezometric Data

Figure 2 in Appendix A serves as the comprehensive site map showing the locations of the twenty-two shallow monitoring wells and two telescoping wells at the Short Stop site. Piezometric data collected during sampling activities for the monitoring wells associated with the release at the site can be found in Table 1. Monitoring well MW-22 could not be located during the recent sampling event. KLM searched with a metal detector and no evidence of the well or of it being destroyed was noted. Historical piezometric data can be found in Appendix F for comparison. A piezometric map was created utilizing data collected from the shallow wells during the sampling event conducted on November 12th, 2015. The piezometric map can be found in Appendix A as Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	11/12/15	103.62	20-40	--	26.22	77.40
MW-2R	11/12/15	105.11	20-40	--	28.35	76.76
MW-3R*	11/12/15	105.67	20-40	25.43	27.25	**FP**
MW-4R	11/12/15	104.44	20-40	--	26.88	77.56
MW-5	11/12/15	105.62	20-40	--	25.21	80.41
MW-6	11/12/15	103.87	20-40	--	26.37	77.50
MW-7	11/12/15	102.55	20-40	--	25.32	77.23
MW-8	11/12/15	101.82	20-40	--	25.45	76.37
MW-9	11/12/15	102.03	20-40	--	25.45	76.58
MW-10	11/12/15	102.30	20-40	--	25.46	76.84
MW-11	11/12/15	100.45	20-40	--	23.70	76.75
MW-12	11/12/15	102.40	20-40	--	25.13	77.27
MW-13	11/12/15	101.91	20-40	--	26.31	75.60
MW-14	11/12/15	101.77	20-40	--	26.60	75.17
MW-15	11/12/15	94.60	11-31	--	19.38	75.22
MW-16	11/12/15	101.26	19-39	--	26.05	75.21
MW-17	11/12/15	101.69	20-40	--	26.38	75.31
MW-18	11/12/15	98.19	20-40	--	23.10	75.09
MW-19	11/12/15	106.86	20-40	--	28.96	77.90
MW-20	11/12/15	104.83	20-40	--	27.46	77.37
MW-21	11/12/15	102.66	20-40	--	25.62	77.04
MW-22*	11/12/15	101.23	20-40	--	CNL	--
DW-1*	11/12/15	102.23	58-63	--	25.15	77.08
DW-2*	11/12/15	94.62	55-60	--	20.34	74.28

* indicates wells not used to construct piezometric map. CNL = Could not locate

Depths to fluid measurements were collected relative to the top of casing for each well. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

2.2 Groundwater Sampling

Since the monitoring well network has not been sampled within the last twelve months, purging was required on all monitoring wells. A minimum of three well volumes were purged from all monitoring wells prior to sample collection using an electric purge pump. The purge pump and hose were decontaminated between wells with a triple station rinse as outlined in the QAPP. Immediately after well purging was completed groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured with the Horiba U-52 (serial # W22MV13L) and recorded for each sample during well purging or at the time of collection. The Horiba U-52 (serial # W22MV13L) was calibrated with Horiba 100-4 standard solution prior to use and the calibration records are recorded on the calibration sheet which are included in Appendix B. Following collection in the field, the groundwater samples were packed on wet ice and submitted to Pace Analytical Services (SCDHEC Certification # 99006) and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, 1,2 DCA, 8 Oxygenates, and EDB. Analytical results are provided in Table 2 and 3 and in Appendix B. Historical groundwater analytical data is also provided in Appendix B along with the field sampling sheets. A map is provided as Figure 4 in Appendix A showing the sample results along with the well locations. A disposal manifest for 190.75 gallons of contaminated purge water is provided in Appendix G.

Sampling was performed on November 12th, 2015. Results for all wells sampled are as follows:

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS	NS
MW-1R	4/8/09	**8500**	**6440**	**871**	4620	**3170**	**<500**	**80.7**	**35.2**	NS
	1/5/10	**8460**	**9170**	**1400**	8790	**7420**	**635**	4.7	**41.7**	**322**
	12/1/10	**6120**	**2900**	349	3260	**4950**	**<290**	<5.0	**13.8**	**<130**
	5/6/14	**12900**	**20800**	**1020**	9750	**16600**	**553**	NS	**40.3**	**287**
	11/12/15	**5150**	**6510**	563	3640	**8530**	**289**	NS	**16.0**	**180**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02	NS
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS	NS
	4/8/09	**504**	97.8	41.9	361	16.2	<25.0	<5.0	<0.019	NS
	1/5/10	**777**	199	82.8	670	25.1	<25.0	<5.0	<0.020	<25.0
	12/1/10	**1080**	277	96.4	880	**61.5**	**<29.0**	<5.0	<0.019	**<13.0**
	5/6/14	**990**	233	134	1160	**94.7**	<50.0	NS	<0.020	<50.0
	11/12/15	**1650**	**1290**	450	2520	**202**	<50.0	NS	<0.020	<50.0
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02	NS
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS	NS
	4/8/09	**4380**	**18000**	**1420**	7470	**28400**	**<1000**	<5.0	<0.019	NS
	1/5/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	12/1/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	5/6/14	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/12/15	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02	NS
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS	NS
	4/8/09	**13.4**	<5.0	<5.0	3.6	6.4	<5.0	5.7	<0.019	NS
	1/5/10	**13.5**	<5.0	<5.0	6.1	5.8	<5.0	5.0	<0.019	<5.0
	12/1/10	**18.1**	1.9	<5.0	10.5	10.7	<5.0	4.7	<0.020	<5.0
	5/6/14	<5.0	5.2	2.1	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	**85.2**	<5.0	<5.0	34.6	8.0	4.6	NS	<0.020	<5.0
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02	NS
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS	NS
	4/8/09	**931**	709	183	798	**53.2**	**<50.0**	13.5	<0.020	NS
	1/5/10	**1050**	841	242	1070	**49.6**	<25.0	<5.0	<0.019	<25.0
	12/1/10	**2410**	**2420**	483	2120	**82.7**	**<29.0**	<5.0	<0.020	**<13.0**
	5/6/14	**1720**	**1060**	414	2080	**921**	**48.8**	NS	<0.020	<100
	11/12/15	**3560**	**4400**	**1440**	6500	**3620**	**143**	NS	<0.020	<62.5
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	1.8	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	12/1/10	<5.0	2.0	<5.0	<10.0	<5.0	<5.0	11.2	<0.019	<5.0
	5/6/14	<5.0	6.5	2.8	17.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0

Note: All results in µg/l. Numbers in bold exceed RBSL. CNL = Could Not Locate NS = Not Sampled

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02	NS
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS	NS
	4/8/09	**8.1**	<5.0	<5.0	9.9	11.6	<5.0	<5.0	<0.020	NS
	1/5/10	4.1	<5.0	<5.0	2.8	3.7	<5.0	6.3	<0.020	<5.0
	12/1/10	**334**	<5.0	1.9	258	10.3	<5.0	8.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	**53.4**	<5.0	<5.0	12.8	30.8	<5.0	NS	<0.019	<5.0
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**	NS
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS	NS
	4/8/09	**1190**	<50.0	15.1	447	**638**	**<50.0**	12.5	**0.34**	NS
	1/5/10	**383**	8.8	16.0	204	**331**	<10.0	5.1	**0.10**	3.2
	12/1/10	**2030**	32.7	75.2	833	**1300**	<10.0	<5.0	<0.020	**14.3**
	5/6/14	**2500**	<100	<100	1080	**720**	<100	NS	**0.83**	<100
	11/12/15	**2010**	<125	142	795	**1520**	<125	NS	**0.33**	<125
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**59.1**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**28.2**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**36.7**	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.1	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02	NS
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	**58.6**	<5.0	<5.0	<10.0	20.9	<5.0	NS	<0.020	<5.0
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.9	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**	NS
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS	NS
	4/8/09	**152**	<5.0	<5.0	18.6	**163**	<5.0	<5.0	0.38	NS
	1/5/10	**775**	<5.0	<5.0	75.4	**463**	13.0	**16.1**	**0.94**	**8.9**
	12/1/10	<5.0	<5.0	<5.0	<10.0	5.9	<5.0	8.7	<0.020	<5.0
	5/6/14	**1030**	<5.0	1.8	104	**524**	**27.1**	NS	**0.46**	**13.9**
	11/12/15	**1790**	<50.0	<50.0	180	**1080**	**32.0**	NS	**0.89**	**21.6**
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**21.4**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**17.8**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.6	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	2.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	8.7	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	**70.5**	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	**157**	<5.0	NS	<0.020	3.1
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.2	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.7	<0.019	NS
	1/5/10	**5.8**	93.4	19.8	94.1	2.5	6.1	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	1.7	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
MW-20	4/8/09	**3940**	**16900**	690	5260	**5060**	**127**	5.5	**3.1**	NS
	1/5/10	**8500**	**54200**	**1530**	**14400**	**12000**	**408**	10.7	**29.1**	**188**
	12/1/10	**6890**	**37300**	**1640**	**11200**	**9600**	**<1450**	7.0	**18.2**	**<650**
	5/6/14	**7420**	**39200**	**2340**	**16500**	**7550**	**538**	NS	**29.0**	<1250
	11/12/15	**6320**	**35600**	**1950**	**17400**	**6260**	<2000	NS	**17.6**	<2000
MW-21	4/8/09	**3620**	<250	90.0	3390	**1360**	**<250**	11.8	**0.75**	NS
	1/5/10	**5000**	54.4	298	9080	**3150**	**122**	<5.0	**0.64**	**85.3**
	12/1/10	**5830**	<250	121	7120	**1740**	**<145**	6.3	**0.19**	**<65.0**
	5/6/14	**5640**	<250	254	6820	**4700**	<250	NS	**0.92**	<250
	11/12/15	**3770**	<250	123	3290	**3820**	<250	NS	**0.53**	<250
MW-22	4/8/09	**414**	4.2	2.3	169	**45.2**	<5.0	**15.9**	<0.020	NS
	1/5/10	**6.8**	<5.0	<5.0	<10.0	<5.0	<5.0	**21.7**	0.039	<5.0
	12/1/10	**47.8**	<5.0	<5.0	8.1	<5.0	<5.0	4.9	<0.020	<5.0
	5/6/14	**138**	<5.0	2.0	39.2	**60.3**	<5.0	NS	<0.020	<5.0
	11/12/15	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02	NS
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS	NS
	4/8/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	2.0	<5.0	<5.0	4.3	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	4.3 j	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
QA / QC Data										
Dup. 1 (MW-21)	11/12/15	**4260**	<125	143	3280	**4200**	**51.6**	NS	**0.91**	**79.6**
Dup. 2 (MW-1R)	11/12/15	**5680**	7220	555	3920	**10100**	**261**	NS	**13.4**	**158**
Field Blank	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.019	<5.0
Trip Blank	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	NS	<5.0

TABLE 3
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	(ETBE)	(TAME)	(DIPE)	(TBA)	(TAA)	(TBF)	Ethanol	(ETBA)
RBSL	**--**	**47**	**128**	**150**	**1400**	**240**	**--**	**10000**	**--**
MW-1R	11/12/15	<500	<500	<250	**11900**	**20700**	<2500	<10000	<5000
MW-2R	11/12/15	<100	<100	<50.0	<1000	**1710**	<500	<2000	<1000
MW-3R	11/12/15	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-5	11/12/15	<125	**178**	**246**	<1250	**3720**	<625	<2500	<1250
MW-6	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-7	11/12/15	<10.0	<10.0	<5.0	<100	**242**	<50.0	<200	<100
MW-8	11/12/15	<250	<250	<125	<2500	**4350**	<1250	<5000	<2500
MW-9	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-10	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-11	11/12/15	<10.0	<10.0	<5.0	<100	**295**	<50.0	<200	<100
MW-12	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-13	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-14	11/12/15	<100	<100	<50.0	1100	**3330**	<500	<2000	<1000
MW-15	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-16	11/12/15	<10.0	<10.0	2.2	122	**429**	<50.0	<200	<100
MW-17	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-18	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-19	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
MW-20	11/12/15	<4000	<4000	<2000	<40000	<40000	<20000	<80000	<40000
MW-21	11/12/15	<500	<500	<250	<5000	**11200**	<2500	<10000	<5000
MW-22	11/12/15	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
DW-1*	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	139	<100
DW-2*	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
QA / QC Analytical Data									
Dup. 1 (MW-21)	11/12/15	<250	<250	<125	**2290**	**10800**	<1250	<5000	<2500
Dup. 2 (MW-1R)	11/12/15	<100	<100	59.0	**15400**	**26200**	<500	<2000	<1000
Field Blank	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100
Trip Blank	11/12/15	<10.0	<10.0	<5.0	<100	<100	<50.0	<200	<100

Note: All results in µg/l.

3.0 CONCLUSIONS

All data was reviewed thoroughly by KLM's Quality Assurance Officer and the data was determined to be valid. 1.82 feet of free product was detected in monitoring well MW-3R during the sampling event performed on November 12th, 2015. The laboratory reported contamination above Risk Based Screening Levels (RBSLs) in monitoring wells MW-1R, MW-2R, MW-4R, MW-5, MW-7, MW-8, MW-11, MW-14, MW-16, MW-20 and MW-21. The current groundwater data indicates the contaminant levels have increased in several monitoring wells and the plume is still undefined horizontally. MTBE was the only contaminant reported by the laboratory in monitoring well MW-16. This indicates the contaminant plume is migrating down gradient to the west as MTBE is typically identified in the leading edge of the plume. The areas to the north and east of MW-3R and MW-5 are undefined as well.

KLM recommends performing a series of long duration Aggressive Fluid Vapor Recovery (AFVR) events on monitoring well MW-3R in an effort to remove free product from the site. Additional assessment to the west of MW-16 along with the area to the north and east of MW-3R and MW-5 will be required to define the plume horizontally. A comprehensive sampling event should follow the assessment and AFVR events.

4.0 REFERENCES

KLM Environmental, LLC, *AFVR Report*, December, 2014.

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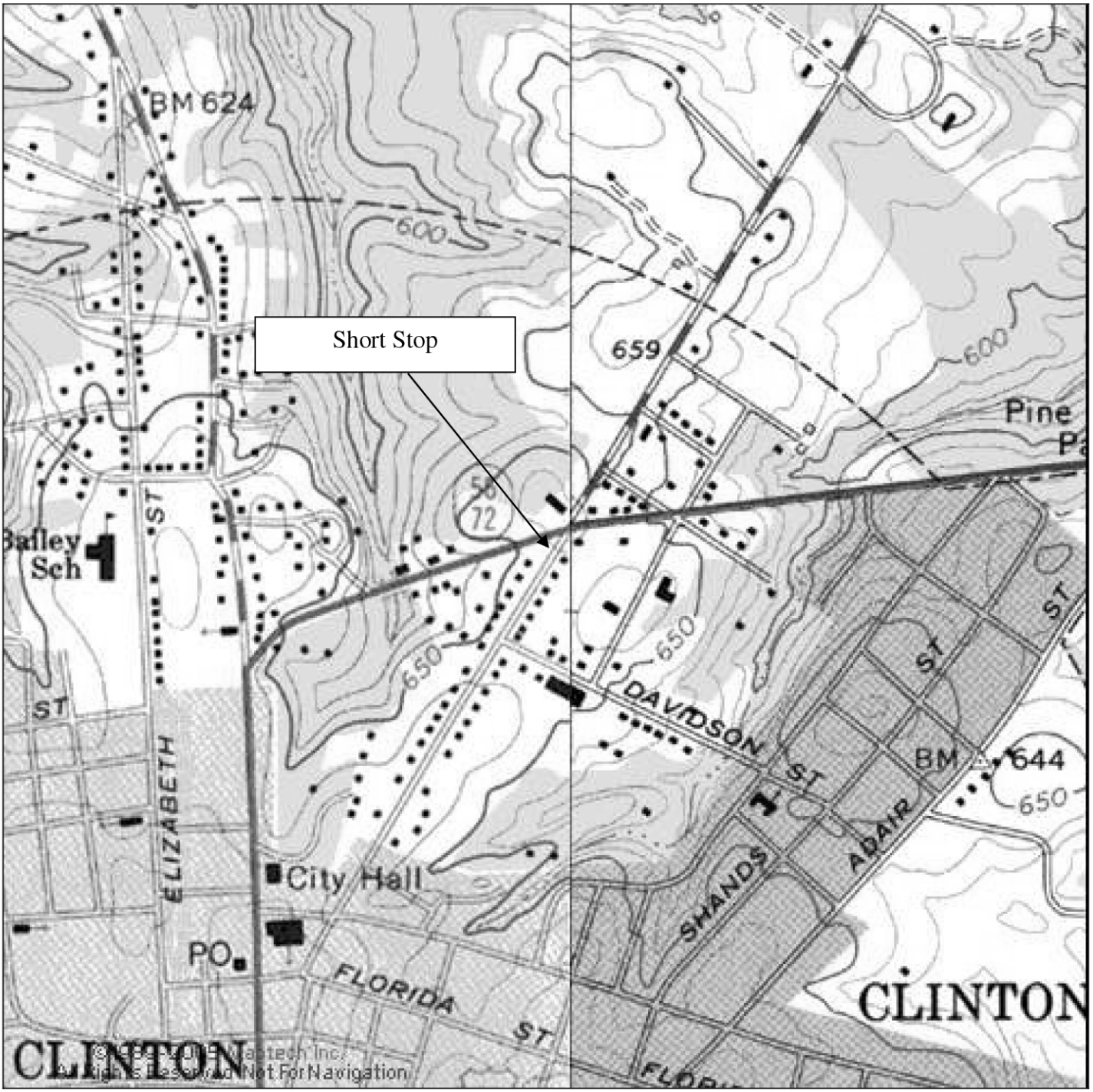
KLM Environmental, LLC, *Gauging Event*, November, 2007.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Quality Assurance Program Plan 3.0,* May, 2015.

APPENDIX A

Figures



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Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

KLM Environmental, LLC

Phase I- Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	11/12/15	103.62	20-40	--	26.22	77.40
MW-2R	11/12/15	105.11	20-40	--	28.35	76.76
MW-3R*	11/12/15	105.67	20-40	25.43	27.25	FP
MW-4R	11/12/15	104.44	20-40	--	26.88	77.56
MW-5	11/12/15	105.62	20-40	--	25.21	80.41
MW-6	11/12/15	103.87	20-40	--	26.37	77.50
MW-7	11/12/15	102.55	20-40	--	25.32	77.23
MW-8	11/12/15	101.82	20-40	--	25.45	76.37
MW-9	11/12/15	102.03	20-40	--	25.45	76.58
MW-10	11/12/15	102.30	20-40	--	25.46	76.84
MW-11	11/12/15	100.45	20-40	--	23.70	76.75
MW-12	11/12/15	102.40	20-40	--	25.13	77.27
MW-13	11/12/15	101.91	20-40	--	26.31	75.60
MW-14	11/12/15	101.77	20-40	--	26.60	75.17
MW-15	11/12/15	94.60	11-31	--	19.38	75.22
MW-16	11/12/15	101.26	19-39	--	26.05	75.21
MW-17	11/12/15	101.69	20-40	--	26.38	75.31
MW-18	11/12/15	98.19	20-40	--	23.10	75.09
MW-19	11/12/15	106.86	20-40	--	28.96	77.90
MW-20	11/12/15	104.83	20-40	--	27.46	77.37
MW-21	11/12/15	102.66	20-40	--	25.62	77.04
MW-22*	11/12/15	101.23	20-40	--	CNL	--
DW-1*	11/12/15	102.23	58-63	--	25.15	77.08
DW-2*	11/12/15	94.62	55-60	--	20.34	74.28

KLM Environmental, LLC

Phase I-Phase II-Underground Storage Tanks Soil & Water Sampling-Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

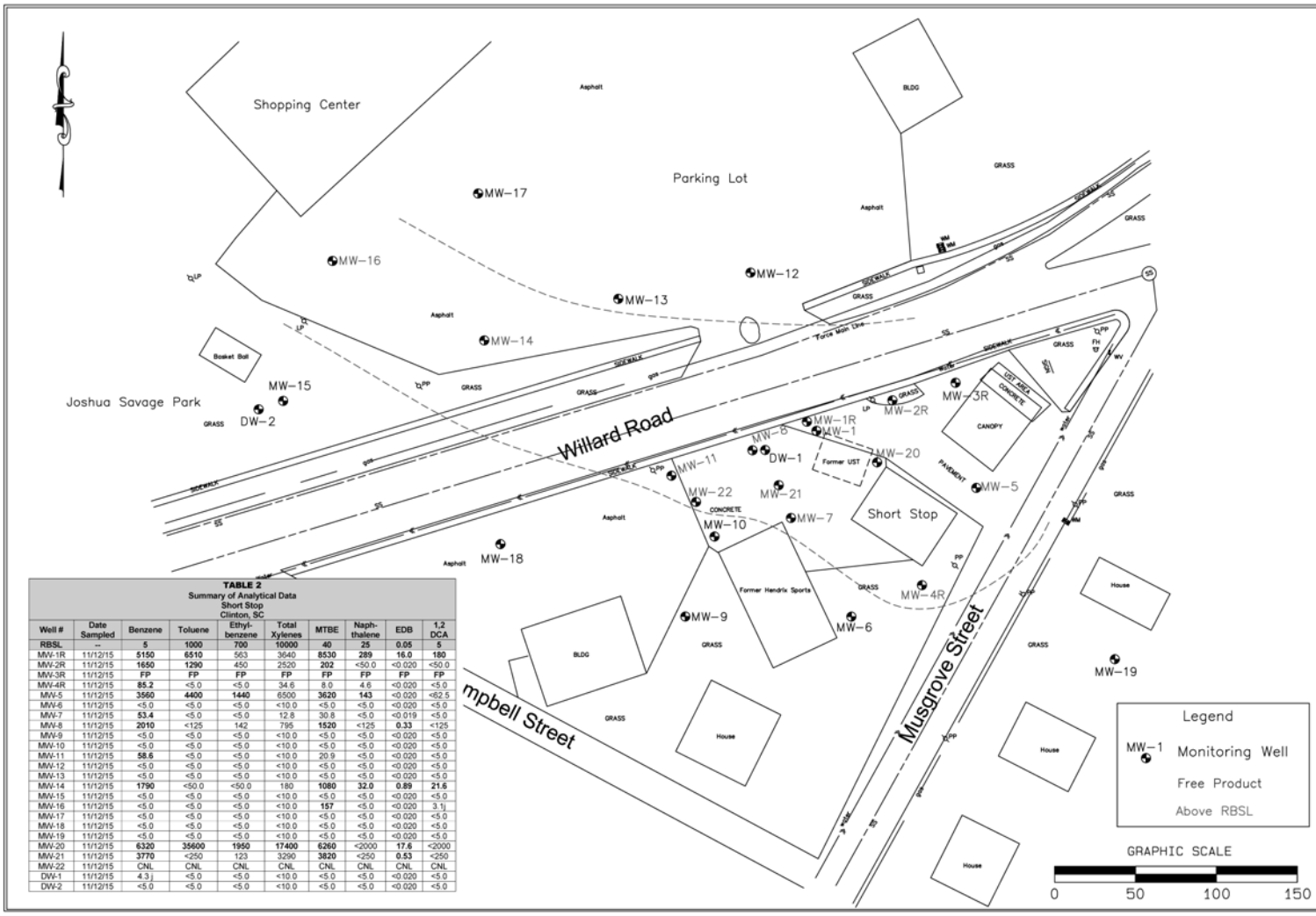

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	1,2 DCA
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**0.05**	**5**
MW-1R	11/12/15	**5150**	**6510**	563	3640	**8530**	**289**	**16.0**	**180**
MW-2R	11/12/15	**1650**	**1290**	450	2520	**202**	<50.0	<0.020	<50.0
MW-3R	11/12/15	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	11/12/15	**85.2**	<5.0	<5.0	34.6	8.0	4.6	<0.020	<5.0
MW-5	11/12/15	**3560**	**4400**	**1440**	6500	**3620**	**143**	<0.020	<62.5
MW-6	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-7	11/12/15	**53.4**	<5.0	<5.0	12.8	30.8	<5.0	<0.019	<5.0
MW-8	11/12/15	**2010**	<125	142	795	**1520**	<125	**0.33**	<125
MW-9	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-10	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-11	11/12/15	**58.6**	<5.0	<5.0	<10.0	20.9	<5.0	<0.020	<5.0
MW-12	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-13	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-14	11/12/15	**1790**	<50.0	<50.0	180	**1080**	**32.0**	**0.89**	**21.6**
MW-15	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-16	11/12/15	<5.0	<5.0	<5.0	<10.0	**157**	<5.0	<0.020	3.1j
MW-17	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-18	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-19	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
MW-20	11/12/15	**6320**	**35600**	**1950**	**17400**	**6260**	<2000	**17.6**	<2000
MW-21	11/12/15	**3770**	<250	123	3290	**3820**	<250	**0.53**	<250
MW-22	11/12/15	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
DW-1	11/12/15	4.3 j	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0
DW-2	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<0.020	<5.0

KLM Environmental, LLC

Phase I- Phase II Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 4
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

APPENDIX B

Laboratory Data / Sampling Sheets / Historical Well Data

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

November 25, 2015

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 92276594

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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,

Trey Carter
trey.carter@pacelabs.com
Project Manager

Enclosures

cc: Micah Bennett, KLM

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

CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 92276594

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 92276594

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92276594001	05678 MW-1R	Water	11/12/15 14:30	11/18/15 10:00
92276594002	05678 MW-2R	Water	11/12/15 16:30	11/18/15 10:00
92276594003	05678 MW-4R	Water	11/12/15 15:00	11/18/15 10:00
92276594004	05678 MW-5	Water	11/12/15 15:30	11/18/15 10:00
92276594005	05678 MW-6	Water	11/12/15 14:45	11/18/15 10:00
92276594006	05678 MW-7	Water	11/12/15 13:15	11/18/15 10:00
92276594007	05678 MW-8	Water	11/12/15 13:45	11/18/15 10:00
92276594008	05678 MW-9	Water	11/12/15 13:00	11/18/15 10:00
92276594009	05678 MW-10	Water	11/12/15 12:40	11/18/15 10:00
92276594010	05678 MW-11	Water	11/12/15 12:15	11/18/15 10:00
92276594011	05678 MW-12	Water	11/12/15 11:30	11/18/15 10:00
92276594012	05678 MW-13	Water	11/12/15 11:15	11/18/15 10:00
92276594013	05678 MW-14	Water	11/12/15 10:45	11/18/15 10:00
92276594014	05678 MW-15	Water	11/12/15 10:15	11/18/15 10:00
92276594015	05678 MW-16	Water	11/12/15 10:30	11/18/15 10:00
92276594016	05678 MW-17	Water	11/12/15 11:00	11/18/15 10:00
92276594017	05678 MW-18	Water	11/12/15 11:50	11/18/15 10:00
92276594018	05678 MW-19	Water	11/12/15 15:15	11/18/15 10:00
92276594019	05678 MW-20	Water	11/12/15 15:45	11/18/15 10:00
92276594020	05678 MW-21	Water	11/12/15 13:30	11/18/15 10:00
92276594021	05678 DW-1	Water	11/12/15 14:15	11/18/15 10:00
92276594022	05678 DW-2	Water	11/12/15 10:00	11/18/15 10:00
92276594023	05678 DUPLICATE 1	Water	11/12/15 13:25	11/18/15 10:00
92276594024	05678 DUPLICATE 2	Water	11/12/15 14:35	11/18/15 10:00
92276594025	05678 FIELD BLANK	Water	11/12/15 12:05	11/18/15 10:00
92276594026	05678 TRIP BLANK	Water	11/12/15 00:00	11/18/15 10:00

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 92276594

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92276594001	05678 MW-1R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594002	05678 MW-2R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594003	05678 MW-4R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594004	05678 MW-5	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594005	05678 MW-6	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594006	05678 MW-7	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594007	05678 MW-8	EPA 8011	RES	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594008	05678 MW-9	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594009	05678 MW-10	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594010	05678 MW-11	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594011	05678 MW-12	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594012	05678 MW-13	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594013	05678 MW-14	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594014	05678 MW-15	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594015	05678 MW-16	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594016	05678 MW-17	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594017	05678 MW-18	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594018	05678 MW-19	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594019	05678 MW-20	EPA 8011	RES	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 92276594

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	CCL	20	PASI-C
92276594020	**05678 MW-21**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594021	**05678 DW-1**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594022	**05678 DW-2**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594023	**05678 DUPLICATE 1**	EPA 8011	RES	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594024	**05678 DUPLICATE 2**	EPA 8011	RES	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594025	**05678 FIELD BLANK**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92276594026	**05678 TRIP BLANK**	EPA 8260	CCL	20	PASI-C

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SUMMARY OF DETECTION

Project: SHORT STOP
Pace Project No.: 92276594

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92276594001	**05678 MW-1R**					
EPA 8011	1,2-Dibromoethane (EDB)	16.0	ug/L	0.50	11/23/15 15:35	
EPA 8260	tert-Amyl Alcohol	20700	ug/L	5000	11/23/15 17:51	
EPA 8260	Benzene	5150	ug/L	250	11/23/15 17:51	
EPA 8260	tert-Butyl Alcohol	11900	ug/L	5000	11/23/15 17:51	
EPA 8260	1,2-Dichloroethane	180J	ug/L	250	11/23/15 17:51	
EPA 8260	Ethylbenzene	563	ug/L	250	11/23/15 17:51	
EPA 8260	Methyl-tert-butyl ether	8530	ug/L	250	11/23/15 17:51	M1
EPA 8260	Naphthalene	289	ug/L	250	11/23/15 17:51	
EPA 8260	Toluene	6510	ug/L	250	11/23/15 17:51	M1
EPA 8260	Xylene (Total)	3640	ug/L	500	11/23/15 17:51	
EPA 8260	m&p-Xylene	2410	ug/L	500	11/23/15 17:51	
EPA 8260	o-Xylene	1230	ug/L	250	11/23/15 17:51	
92276594002	**05678 MW-2R**					
EPA 8260	tert-Amyl Alcohol	1710	ug/L	1000	11/22/15 19:47	
EPA 8260	Benzene	1650	ug/L	50.0	11/22/15 19:47	
EPA 8260	Ethylbenzene	450	ug/L	50.0	11/22/15 19:47	
EPA 8260	Methyl-tert-butyl ether	202	ug/L	50.0	11/22/15 19:47	
EPA 8260	Toluene	1290	ug/L	50.0	11/22/15 19:47	
EPA 8260	Xylene (Total)	2520	ug/L	100	11/22/15 19:47	
EPA 8260	m&p-Xylene	2220	ug/L	100	11/22/15 19:47	
EPA 8260	o-Xylene	308	ug/L	50.0	11/22/15 19:47	
92276594003	**05678 MW-4R**					
EPA 8260	Benzene	85.2	ug/L	5.0	11/21/15 20:30	
EPA 8260	Methyl-tert-butyl ether	8.0	ug/L	5.0	11/21/15 20:30	
EPA 8260	Naphthalene	4.6J	ug/L	5.0	11/21/15 20:30	
EPA 8260	Xylene (Total)	34.6	ug/L	10.0	11/21/15 20:30	
EPA 8260	m&p-Xylene	27.9	ug/L	10.0	11/21/15 20:30	
EPA 8260	o-Xylene	6.7	ug/L	5.0	11/21/15 20:30	
92276594004	**05678 MW-5**					
EPA 8260	tert-Amyl Alcohol	3720	ug/L	1250	11/22/15 20:04	
EPA 8260	tert-Amylmethyl ether	178	ug/L	125	11/22/15 20:04	
EPA 8260	Benzene	3560	ug/L	250	11/23/15 22:42	
EPA 8260	Diisopropyl ether	246	ug/L	62.5	11/22/15 20:04	
EPA 8260	Ethylbenzene	1440	ug/L	62.5	11/22/15 20:04	
EPA 8260	Methyl-tert-butyl ether	3620	ug/L	250	11/23/15 22:42	
EPA 8260	Naphthalene	143	ug/L	62.5	11/22/15 20:04	
EPA 8260	Toluene	4400	ug/L	250	11/23/15 22:42	
EPA 8260	Xylene (Total)	6500	ug/L	125	11/22/15 20:04	
EPA 8260	m&p-Xylene	4770	ug/L	125	11/22/15 20:04	
EPA 8260	o-Xylene	1720	ug/L	62.5	11/22/15 20:04	
92276594006	**05678 MW-7**					
EPA 8260	tert-Amyl Alcohol	242	ug/L	100	11/21/15 21:04	
EPA 8260	Benzene	53.4	ug/L	5.0	11/21/15 21:04	
EPA 8260	Methyl-tert-butyl ether	30.8	ug/L	5.0	11/21/15 21:04	
EPA 8260	Xylene (Total)	12.8	ug/L	10.0	11/21/15 21:04	

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SUMMARY OF DETECTION

Project: SHORT STOP
Pace Project No.: 92276594

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92276594006	**05678 MW-7**					
EPA 8260	m&p-Xylene	12.8	ug/L	10.0	11/21/15 21:04	
EPA 8260	o-Xylene	2.6J	ug/L	5.0	11/21/15 21:04	
92276594007	**05678 MW-8**					
EPA 8011	1,2-Dibromoethane (EDB)	0.33	ug/L	0.020	11/24/15 22:55	
EPA 8260	tert-Amyl Alcohol	4350	ug/L	2500	11/22/15 20:21	
EPA 8260	Benzene	2010	ug/L	125	11/22/15 20:21	
EPA 8260	Ethylbenzene	142	ug/L	125	11/22/15 20:21	
EPA 8260	Methyl-tert-butyl ether	1520	ug/L	125	11/22/15 20:21	
EPA 8260	Xylene (Total)	795	ug/L	250	11/22/15 20:21	
EPA 8260	m&p-Xylene	662	ug/L	250	11/22/15 20:21	
EPA 8260	o-Xylene	133	ug/L	125	11/22/15 20:21	
92276594010	**05678 MW-11**					
EPA 8260	tert-Amyl Alcohol	295	ug/L	100	11/22/15 13:50	
EPA 8260	Benzene	58.6	ug/L	5.0	11/22/15 13:50	
EPA 8260	Methyl-tert-butyl ether	20.9	ug/L	5.0	11/22/15 13:50	
92276594013	**05678 MW-14**					
EPA 8011	1,2-Dibromoethane (EDB)	0.89	ug/L	0.039	11/22/15 12:04	
EPA 8260	tert-Amyl Alcohol	3330	ug/L	1000	11/22/15 20:38	
EPA 8260	Benzene	1790	ug/L	50.0	11/22/15 20:38	
EPA 8260	tert-Butyl Alcohol	1100	ug/L	1000	11/22/15 20:38	
EPA 8260	1,2-Dichloroethane	21.6J	ug/L	50.0	11/22/15 20:38	
EPA 8260	Methyl-tert-butyl ether	1080	ug/L	50.0	11/22/15 20:38	
EPA 8260	Naphthalene	32.0J	ug/L	50.0	11/22/15 20:38	
EPA 8260	Xylene (Total)	180	ug/L	100	11/22/15 20:38	
EPA 8260	m&p-Xylene	180	ug/L	100	11/22/15 20:38	
EPA 8260	o-Xylene	44.9J	ug/L	50.0	11/22/15 20:38	
92276594015	**05678 MW-16**					
EPA 8260	tert-Amyl Alcohol	429	ug/L	100	11/23/15 09:43	
EPA 8260	tert-Butyl Alcohol	122	ug/L	100	11/23/15 09:43	
EPA 8260	1,2-Dichloroethane	3.1J	ug/L	5.0	11/23/15 09:43	
EPA 8260	Diisopropyl ether	2.2J	ug/L	5.0	11/23/15 09:43	
EPA 8260	Methyl-tert-butyl ether	157	ug/L	5.0	11/23/15 09:43	
92276594019	**05678 MW-20**					
EPA 8011	1,2-Dibromoethane (EDB)	17.6	ug/L	0.49	11/22/15 13:45	
EPA 8260	Benzene	6320	ug/L	2000	11/22/15 20:55	
EPA 8260	Ethylbenzene	1950J	ug/L	2000	11/22/15 20:55	
EPA 8260	Methyl-tert-butyl ether	6260	ug/L	2000	11/22/15 20:55	
EPA 8260	Toluene	35600	ug/L	2000	11/22/15 20:55	
EPA 8260	Xylene (Total)	17400	ug/L	4000	11/22/15 20:55	
EPA 8260	m&p-Xylene	11900	ug/L	4000	11/22/15 20:55	
EPA 8260	o-Xylene	5530	ug/L	2000	11/22/15 20:55	
92276594020	**05678 MW-21**					
EPA 8011	1,2-Dibromoethane (EDB)	0.53	ug/L	0.020	11/20/15 08:20	
EPA 8260	tert-Amyl Alcohol	11200	ug/L	5000	11/22/15 21:12	

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SUMMARY OF DETECTION

Project: SHORT STOP
Pace Project No.: 92276594

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92276594020	**05678 MW-21**					
EPA 8260	Benzene	3770	ug/L	250	11/22/15 21:12	
EPA 8260	Ethylbenzene	123J	ug/L	250	11/22/15 21:12	
EPA 8260	Methyl-tert-butyl ether	3820	ug/L	250	11/22/15 21:12	
EPA 8260	Xylene (Total)	3290	ug/L	500	11/22/15 21:12	
EPA 8260	m&p-Xylene	2590	ug/L	500	11/22/15 21:12	
EPA 8260	o-Xylene	698	ug/L	250	11/22/15 21:12	
92276594021	**05678 DW-1**					
EPA 8260	Benzene	4.3J	ug/L	5.0	11/22/15 15:49	
EPA 8260	Ethanol	139J	ug/L	200	11/22/15 15:49	B
EPA 8260	m&p-Xylene	6.2J	ug/L	10.0	11/22/15 15:49	
EPA 8260	o-Xylene	1.7J	ug/L	5.0	11/22/15 15:49	
92276594023	**05678 DUPLICATE 1**					
EPA 8011	1,2-Dibromoethane (EDB)	0.91	ug/L	0.040	11/22/15 14:46	
EPA 8260	tert-Amyl Alcohol	10800	ug/L	2500	11/23/15 18:08	
EPA 8260	Benzene	4260	ug/L	125	11/23/15 18:08	
EPA 8260	tert-Butyl Alcohol	2290J	ug/L	2500	11/23/15 18:08	
EPA 8260	1,2-Dichloroethane	79.6J	ug/L	125	11/23/15 18:08	
EPA 8260	Ethylbenzene	143	ug/L	125	11/23/15 18:08	
EPA 8260	Methyl-tert-butyl ether	4200	ug/L	125	11/23/15 18:08	
EPA 8260	Naphthalene	51.6J	ug/L	125	11/23/15 18:08	
EPA 8260	Xylene (Total)	3280	ug/L	250	11/23/15 18:08	
EPA 8260	m&p-Xylene	2560	ug/L	250	11/23/15 18:08	
EPA 8260	o-Xylene	726	ug/L	125	11/23/15 18:08	
92276594024	**05678 DUPLICATE 2**					
EPA 8011	1,2-Dibromoethane (EDB)	13.4	ug/L	0.50	11/22/15 15:07	
EPA 8260	tert-Amyl Alcohol	26200	ug/L	1000	11/22/15 21:46	
EPA 8260	Benzene	5680	ug/L	500	11/23/15 22:59	
EPA 8260	tert-Butyl Alcohol	15400	ug/L	1000	11/22/15 21:46	
EPA 8260	1,2-Dichloroethane	158	ug/L	50.0	11/22/15 21:46	
EPA 8260	Diisopropyl ether	59.0	ug/L	50.0	11/22/15 21:46	
EPA 8260	Ethylbenzene	555	ug/L	50.0	11/22/15 21:46	
EPA 8260	Methyl-tert-butyl ether	10100	ug/L	500	11/23/15 22:59	
EPA 8260	Naphthalene	261	ug/L	50.0	11/22/15 21:46	
EPA 8260	Toluene	7220	ug/L	500	11/23/15 22:59	
EPA 8260	Xylene (Total)	3920	ug/L	100	11/22/15 21:46	
EPA 8260	m&p-Xylene	2580	ug/L	100	11/22/15 21:46	
EPA 8260	o-Xylene	1340	ug/L	50.0	11/22/15 21:46	

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PROJECT NARRATIVE

Project: SHORT STOP
Pace Project No.: 92276594

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: KLM
Date: November 25, 2015

General Information:
25 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/39181

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- 05678 DUPLICATE 2 (Lab ID: 92276594024)
  - 1-Chloro-2-bromopropane (S)
- 05678 MW-20 (Lab ID: 92276594019)
  - 1-Chloro-2-bromopropane (S)

QC Batch: OEXT/39249

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- 05678 MW-1R (Lab ID: 92276594001)
  - 1-Chloro-2-bromopropane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SHORT STOP
Pace Project No.: 92276594

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: November 25, 2015

General Information:
26 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: MSV/34387

B: Analyte was detected in the associated method blank.
- BLANK for HBN 290802 [MSV/3438 (Lab ID: 1612813)
  - Ethanol

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/34381

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92276594005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1612663)
  - Ethanol
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
- MS (Lab ID: 1612663)
  - tert-Butyl Formate

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PROJECT NARRATIVE

Project: SHORT STOP
Pace Project No.: 92276594

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: November 25, 2015

QC Batch: MSV/34387

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92276594008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1612815)
  - Ethanol
  - Methyl-tert-butyl ether
  - tert-Amyl Alcohol
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1612815)
  - tert-Butyl Formate

QC Batch: MSV/34388

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92276994001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1612819)
  - Methyl-tert-butyl ether
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1612819)
  - tert-Butyl Formate

QC Batch: MSV/34390

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92276994035

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1612836)
  - tert-Butyl Formate

QC Batch: MSV/34399

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92276594001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1613476)
  - Ethanol
  - Methyl-tert-butyl ether
  - Toluene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SHORT STOP
Pace Project No.: 92276594

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: November 25, 2015

Analyte Comments:

QC Batch: MSV/34399

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MS (Lab ID: 1613476)
  - Methyl-tert-butyl ether

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-1R **Lab ID: 92276594001** Collected: 11/12/15 14:30 Received: 11/18/15 10:00 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)	**16.0**	ug/L	0.50	0.50	25	11/22/15 12:48	11/23/15 15:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	11/22/15 12:48	11/23/15 15:35	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**20700**	ug/L	5000	3840	50		11/23/15 17:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		11/23/15 17:51	994-05-8	
Benzene	**5150**	ug/L	250	85.0	50		11/23/15 17:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		11/23/15 17:51	624-95-3	
tert-Butyl Alcohol	**11900**	ug/L	5000	2880	50		11/23/15 17:51	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		11/23/15 17:51	762-75-4	
1,2-Dichloroethane	**180J**	ug/L	250	90.0	50		11/23/15 17:51	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		11/23/15 17:51	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		11/23/15 17:51	64-17-5	M1
Ethylbenzene	**563**	ug/L	250	80.0	50		11/23/15 17:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		11/23/15 17:51	637-92-3	
Methyl-tert-butyl ether	**8530**	ug/L	250	85.0	50		11/23/15 17:51	1634-04-4	M1
Naphthalene	**289**	ug/L	250	100	50		11/23/15 17:51	91-20-3	
Toluene	**6510**	ug/L	250	80.0	50		11/23/15 17:51	108-88-3	M1
Xylene (Total)	**3640**	ug/L	500	135	50		11/23/15 17:51	1330-20-7	
m&p-Xylene	**2410**	ug/L	500	155	50		11/23/15 17:51	179601-23-1	
o-Xylene	**1230**	ug/L	250	80.0	50		11/23/15 17:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		50		11/23/15 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		50		11/23/15 17:51	17060-07-0	
Toluene-d8 (S)	104	%	70-130		50		11/23/15 17:51	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-2R **Lab ID: 92276594002** Collected: 11/12/15 16:30 Received: 11/18/15 10:00 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	11/19/15 18:34	11/20/15 15:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	127	%	60-140		1	11/19/15 18:34	11/20/15 15:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1710**	ug/L	1000	768	10		11/22/15 19:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		11/22/15 19:47	994-05-8	
Benzene	**1650**	ug/L	50.0	17.0	10		11/22/15 19:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		11/22/15 19:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		11/22/15 19:47	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		11/22/15 19:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		11/22/15 19:47	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		11/22/15 19:47	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		11/22/15 19:47	64-17-5	
Ethylbenzene	**450**	ug/L	50.0	16.0	10		11/22/15 19:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		11/22/15 19:47	637-92-3	
Methyl-tert-butyl ether	**202**	ug/L	50.0	17.0	10		11/22/15 19:47	1634-04-4	
Naphthalene	ND	ug/L	50.0	20.0	10		11/22/15 19:47	91-20-3	
Toluene	**1290**	ug/L	50.0	16.0	10		11/22/15 19:47	108-88-3	
Xylene (Total)	**2520**	ug/L	100	27.0	10		11/22/15 19:47	1330-20-7	
m&p-Xylene	**2220**	ug/L	100	31.0	10		11/22/15 19:47	179601-23-1	
o-Xylene	**308**	ug/L	50.0	16.0	10		11/22/15 19:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		10		11/22/15 19:47	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		10		11/22/15 19:47	17060-07-0	
Toluene-d8 (S)	107	%	70-130		10		11/22/15 19:47	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-4R **Lab ID: 92276594003** Collected: 11/12/15 15:00 Received: 11/18/15 10:00 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	11/19/15 18:34	11/20/15 16:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	11/19/15 18:34	11/20/15 16:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/21/15 20:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/21/15 20:30	994-05-8	
Benzene	**85.2**	ug/L	5.0	1.7	1		11/21/15 20:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/21/15 20:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/21/15 20:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/21/15 20:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/21/15 20:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/21/15 20:30	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/21/15 20:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/21/15 20:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/21/15 20:30	637-92-3	
Methyl-tert-butyl ether	**8.0**	ug/L	5.0	1.7	1		11/21/15 20:30	1634-04-4	
Naphthalene	**4.6J**	ug/L	5.0	2.0	1		11/21/15 20:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/21/15 20:30	108-88-3	
Xylene (Total)	**34.6**	ug/L	10.0	2.7	1		11/21/15 20:30	1330-20-7	
m&p-Xylene	**27.9**	ug/L	10.0	3.1	1		11/21/15 20:30	179601-23-1	
o-Xylene	**6.7**	ug/L	5.0	1.6	1		11/21/15 20:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/21/15 20:30	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/21/15 20:30	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/21/15 20:30	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-5 **Lab ID: 92276594004** Collected: 11/12/15 15:30 Received: 11/18/15 10:00 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	11/19/15 18:34	11/20/15 16:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	122	%	60-140		1	11/19/15 18:34	11/20/15 16:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3720**	ug/L	1250	960	12.5		11/22/15 20:04	75-85-4	
tert-Amylmethyl ether	**178**	ug/L	125	42.5	12.5		11/22/15 20:04	994-05-8	
Benzene	**3560**	ug/L	250	85.0	50		11/23/15 22:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		11/22/15 20:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		11/22/15 20:04	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		11/22/15 20:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		11/22/15 20:04	107-06-2	
Diisopropyl ether	**246**	ug/L	62.5	21.2	12.5		11/22/15 20:04	108-20-3	
Ethanol	ND	ug/L	2500	1720	12.5		11/22/15 20:04	64-17-5	
Ethylbenzene	**1440**	ug/L	62.5	20.0	12.5		11/22/15 20:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		11/22/15 20:04	637-92-3	
Methyl-tert-butyl ether	**3620**	ug/L	250	85.0	50		11/23/15 22:42	1634-04-4	
Naphthalene	**143**	ug/L	62.5	25.0	12.5		11/22/15 20:04	91-20-3	
Toluene	**4400**	ug/L	250	80.0	50		11/23/15 22:42	108-88-3	
Xylene (Total)	**6500**	ug/L	125	33.8	12.5		11/22/15 20:04	1330-20-7	
m&p-Xylene	**4770**	ug/L	125	38.8	12.5		11/22/15 20:04	179601-23-1	
o-Xylene	**1720**	ug/L	62.5	20.0	12.5		11/22/15 20:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		11/22/15 20:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		12.5		11/22/15 20:04	17060-07-0	
Toluene-d8 (S)	105	%	70-130		12.5		11/22/15 20:04	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-6 **Lab ID: 92276594005** Collected: 11/12/15 14:45 Received: 11/18/15 10:00 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	11/19/15 18:34	11/20/15 16:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	11/19/15 18:34	11/20/15 16:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/21/15 20:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/21/15 20:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/21/15 20:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/21/15 20:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/21/15 20:47	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/21/15 20:47	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/21/15 20:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/21/15 20:47	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/21/15 20:47	64-17-5	M1
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/21/15 20:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/21/15 20:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/21/15 20:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/21/15 20:47	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/21/15 20:47	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/21/15 20:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/21/15 20:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/21/15 20:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/21/15 20:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/21/15 20:47	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		11/21/15 20:47	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-7 **Lab ID: 92276594006** Collected: 11/12/15 13:15 Received: 11/18/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/19/15 18:34	11/20/15 17:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	11/19/15 18:34	11/20/15 17:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**242**	ug/L	100	76.8	1		11/21/15 21:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/21/15 21:04	994-05-8	
Benzene	**53.4**	ug/L	5.0	1.7	1		11/21/15 21:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/21/15 21:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/21/15 21:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/21/15 21:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/21/15 21:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/21/15 21:04	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/21/15 21:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/21/15 21:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/21/15 21:04	637-92-3	
Methyl-tert-butyl ether	**30.8**	ug/L	5.0	1.7	1		11/21/15 21:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/21/15 21:04	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/21/15 21:04	108-88-3	
Xylene (Total)	**12.8**	ug/L	10.0	2.7	1		11/21/15 21:04	1330-20-7	
m&p-Xylene	**12.8**	ug/L	10.0	3.1	1		11/21/15 21:04	179601-23-1	
o-Xylene	**2.6J**	ug/L	5.0	1.6	1		11/21/15 21:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/21/15 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/21/15 21:04	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		11/21/15 21:04	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-8 **Lab ID: 92276594007** Collected: 11/12/15 13:45 Received: 11/18/15 10:00 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)	**0.33**	ug/L	0.020	0.020	1	11/24/15 21:35	11/24/15 22:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	11/24/15 21:35	11/24/15 22:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**4350**	ug/L	2500	1920	25		11/22/15 20:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		11/22/15 20:21	994-05-8	
Benzene	**2010**	ug/L	125	42.5	25		11/22/15 20:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		11/22/15 20:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		11/22/15 20:21	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		11/22/15 20:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		11/22/15 20:21	107-06-2	
Diisopropyl ether	ND	ug/L	125	42.5	25		11/22/15 20:21	108-20-3	
Ethanol	ND	ug/L	5000	3440	25		11/22/15 20:21	64-17-5	
Ethylbenzene	**142**	ug/L	125	40.0	25		11/22/15 20:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		11/22/15 20:21	637-92-3	
Methyl-tert-butyl ether	**1520**	ug/L	125	42.5	25		11/22/15 20:21	1634-04-4	
Naphthalene	ND	ug/L	125	50.0	25		11/22/15 20:21	91-20-3	
Toluene	ND	ug/L	125	40.0	25		11/22/15 20:21	108-88-3	
Xylene (Total)	**795**	ug/L	250	67.5	25		11/22/15 20:21	1330-20-7	
m&p-Xylene	**662**	ug/L	250	77.5	25		11/22/15 20:21	179601-23-1	
o-Xylene	**133**	ug/L	125	40.0	25		11/22/15 20:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		25		11/22/15 20:21	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		25		11/22/15 20:21	17060-07-0	
Toluene-d8 (S)	110	%	70-130		25		11/22/15 20:21	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-9 **Lab ID: 92276594008** Collected: 11/12/15 13:00 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 03:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	11/19/15 19:24	11/20/15 03:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 12:59	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 12:59	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 12:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 12:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 12:59	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 12:59	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 12:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 12:59	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 12:59	64-17-5	M1
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 12:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 12:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 12:59	1634-04-4	M1
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 12:59	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 12:59	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 12:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 12:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 12:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/22/15 12:59	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		11/22/15 12:59	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/22/15 12:59	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-10 **Lab ID: 92276594009** Collected: 11/12/15 12:40 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 03:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	75	%	60-140		1	11/19/15 19:24	11/20/15 03:34	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 13:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 13:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 13:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 13:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 13:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 13:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 13:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 13:16	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 13:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 13:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 13:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 13:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 13:16	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 13:16	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 13:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 13:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 13:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/22/15 13:16	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/22/15 13:16	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/22/15 13:16	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-11 **Lab ID: 92276594010** Collected: 11/12/15 12:15 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 03:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	11/19/15 19:24	11/20/15 03:53	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**295**	ug/L	100	76.8	1		11/22/15 13:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 13:50	994-05-8	
Benzene	**58.6**	ug/L	5.0	1.7	1		11/22/15 13:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 13:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 13:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 13:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 13:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 13:50	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 13:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 13:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 13:50	637-92-3	
Methyl-tert-butyl ether	**20.9**	ug/L	5.0	1.7	1		11/22/15 13:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 13:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 13:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 13:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 13:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 13:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/22/15 13:50	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/22/15 13:50	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		11/22/15 13:50	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-12 **Lab ID: 92276594011** Collected: 11/12/15 11:30 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 04:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	11/19/15 19:24	11/20/15 04:12	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 14:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 14:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 14:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 14:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 14:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 14:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 14:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:07	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 14:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 14:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 14:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 14:07	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 14:07	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 14:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 14:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 14:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		11/22/15 14:07	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/22/15 14:07	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/22/15 14:07	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-13 **Lab ID: 92276594012** Collected: 11/12/15 11:15 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 04:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	75	%	60-140		1	11/19/15 19:24	11/20/15 04:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 14:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 14:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 14:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 14:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 14:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 14:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 14:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:24	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 14:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 14:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 14:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 14:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 14:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 14:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 14:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 14:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/22/15 14:24	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/22/15 14:24	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/22/15 14:24	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-14 **Lab ID: 92276594013** Collected: 11/12/15 10:45 Received: 11/18/15 10:00 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)	**0.89**	ug/L	0.039	0.039	2	11/19/15 19:24	11/22/15 12:04	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		2	11/19/15 19:24	11/22/15 12:04	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3330**	ug/L	1000	768	10		11/22/15 20:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		11/22/15 20:38	994-05-8	
Benzene	**1790**	ug/L	50.0	17.0	10		11/22/15 20:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		11/22/15 20:38	624-95-3	
tert-Butyl Alcohol	**1100**	ug/L	1000	577	10		11/22/15 20:38	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		11/22/15 20:38	762-75-4	
1,2-Dichloroethane	**21.6J**	ug/L	50.0	18.0	10		11/22/15 20:38	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		11/22/15 20:38	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		11/22/15 20:38	64-17-5	
Ethylbenzene	ND	ug/L	50.0	16.0	10		11/22/15 20:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		11/22/15 20:38	637-92-3	
Methyl-tert-butyl ether	**1080**	ug/L	50.0	17.0	10		11/22/15 20:38	1634-04-4	
Naphthalene	**32.0J**	ug/L	50.0	20.0	10		11/22/15 20:38	91-20-3	
Toluene	ND	ug/L	50.0	16.0	10		11/22/15 20:38	108-88-3	
Xylene (Total)	**180**	ug/L	100	27.0	10		11/22/15 20:38	1330-20-7	
m&p-Xylene	**180**	ug/L	100	31.0	10		11/22/15 20:38	179601-23-1	
o-Xylene	**44.9J**	ug/L	50.0	16.0	10		11/22/15 20:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		10		11/22/15 20:38	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		10		11/22/15 20:38	17060-07-0	
Toluene-d8 (S)	106	%	70-130		10		11/22/15 20:38	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-15 **Lab ID: 92276594014** Collected: 11/12/15 10:15 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 05:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	11/19/15 19:24	11/20/15 05:10	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 14:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 14:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 14:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 14:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 14:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 14:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 14:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:41	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 14:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 14:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 14:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 14:41	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 14:41	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 14:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 14:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 14:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		11/22/15 14:41	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		11/22/15 14:41	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		11/22/15 14:41	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-16 **Lab ID: 92276594015** Collected: 11/12/15 10:30 Received: 11/18/15 10:00 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	11/19/15 19:24	11/20/15 05:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	11/19/15 19:24	11/20/15 05:28	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**429**	ug/L	100	76.8	1		11/23/15 09:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/15 09:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/15 09:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/15 09:43	624-95-3	
tert-Butyl Alcohol	**122**	ug/L	100	57.7	1		11/23/15 09:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/15 09:43	762-75-4	
1,2-Dichloroethane	**3.1J**	ug/L	5.0	1.8	1		11/23/15 09:43	107-06-2	
Diisopropyl ether	**2.2J**	ug/L	5.0	1.7	1		11/23/15 09:43	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/23/15 09:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/15 09:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/15 09:43	637-92-3	
Methyl-tert-butyl ether	**157**	ug/L	5.0	1.7	1		11/23/15 09:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/15 09:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/15 09:43	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/23/15 09:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/15 09:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/15 09:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/23/15 09:43	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		11/23/15 09:43	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/23/15 09:43	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-17 **Lab ID: 92276594016** Collected: 11/12/15 11:00 Received: 11/18/15 10:00 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	11/19/15 19:25	11/20/15 05:47	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	11/19/15 19:25	11/20/15 05:47	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 14:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 14:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 14:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 14:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 14:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 14:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 14:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:58	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 14:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 14:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 14:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 14:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 14:58	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 14:58	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 14:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 14:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 14:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/22/15 14:58	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/22/15 14:58	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/22/15 14:58	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-18 **Lab ID: 92276594017** Collected: 11/12/15 11:50 Received: 11/18/15 10:00 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	11/19/15 19:25	11/20/15 06:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	11/19/15 19:25	11/20/15 06:07	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 15:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 15:15	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 15:15	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 15:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 15:15	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 15:15	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 15:15	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 15:15	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 15:15	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 15:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 15:15	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 15:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 15:15	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 15:15	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 15:15	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 15:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 15:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/22/15 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/22/15 15:15	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/22/15 15:15	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-19 **Lab ID: 92276594018** Collected: 11/12/15 15:15 Received: 11/18/15 10:00 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	11/19/15 19:26	11/20/15 07:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	11/19/15 19:26	11/20/15 07:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 15:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 15:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 15:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 15:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 15:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 15:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 15:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 15:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 15:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 15:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 15:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 15:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 15:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 15:32	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 15:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 15:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 15:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/22/15 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		11/22/15 15:32	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/22/15 15:32	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-20 **Lab ID: 92276594019** Collected: 11/12/15 15:45 Received: 11/18/15 10:00 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)	**17.6**	ug/L	0.49	0.49	25	11/19/15 19:26	11/22/15 13:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	11/19/15 19:26	11/22/15 13:45	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	40000	30700	400		11/22/15 20:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	4000	1360	400		11/22/15 20:55	994-05-8	
Benzene	**6320**	ug/L	2000	680	400		11/22/15 20:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	40000	12800	400		11/22/15 20:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	40000	23100	400		11/22/15 20:55	75-65-0	
tert-Butyl Formate	ND	ug/L	20000	2920	400		11/22/15 20:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	2000	720	400		11/22/15 20:55	107-06-2	
Diisopropyl ether	ND	ug/L	2000	680	400		11/22/15 20:55	108-20-3	
Ethanol	ND	ug/L	80000	55100	400		11/22/15 20:55	64-17-5	
Ethylbenzene	**1950J**	ug/L	2000	640	400		11/22/15 20:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	4000	1440	400		11/22/15 20:55	637-92-3	
Methyl-tert-butyl ether	**6260**	ug/L	2000	680	400		11/22/15 20:55	1634-04-4	
Naphthalene	ND	ug/L	2000	800	400		11/22/15 20:55	91-20-3	
Toluene	**35600**	ug/L	2000	640	400		11/22/15 20:55	108-88-3	
Xylene (Total)	**17400**	ug/L	4000	1080	400		11/22/15 20:55	1330-20-7	
m&p-Xylene	**11900**	ug/L	4000	1240	400		11/22/15 20:55	179601-23-1	
o-Xylene	**5530**	ug/L	2000	640	400		11/22/15 20:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		400		11/22/15 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		400		11/22/15 20:55	17060-07-0	
Toluene-d8 (S)	111	%	70-130		400		11/22/15 20:55	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 MW-21 **Lab ID: 92276594020** Collected: 11/12/15 13:30 Received: 11/18/15 10:00 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)	**0.53**	ug/L	0.020	0.020	1	11/19/15 19:26	11/20/15 08:20	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	63	%	60-140		1	11/19/15 19:26	11/20/15 08:20	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**11200**	ug/L	5000	3840	50		11/22/15 21:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		11/22/15 21:12	994-05-8	
Benzene	**3770**	ug/L	250	85.0	50		11/22/15 21:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		11/22/15 21:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		11/22/15 21:12	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		11/22/15 21:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		11/22/15 21:12	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		11/22/15 21:12	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		11/22/15 21:12	64-17-5	
Ethylbenzene	**123J**	ug/L	250	80.0	50		11/22/15 21:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		11/22/15 21:12	637-92-3	
Methyl-tert-butyl ether	**3820**	ug/L	250	85.0	50		11/22/15 21:12	1634-04-4	
Naphthalene	ND	ug/L	250	100	50		11/22/15 21:12	91-20-3	
Toluene	ND	ug/L	250	80.0	50		11/22/15 21:12	108-88-3	
Xylene (Total)	**3290**	ug/L	500	135	50		11/22/15 21:12	1330-20-7	
m&p-Xylene	**2590**	ug/L	500	155	50		11/22/15 21:12	179601-23-1	
o-Xylene	**698**	ug/L	250	80.0	50		11/22/15 21:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		50		11/22/15 21:12	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		50		11/22/15 21:12	17060-07-0	
Toluene-d8 (S)	111	%	70-130		50		11/22/15 21:12	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 DW-1 **Lab ID: 92276594021** Collected: 11/12/15 14:15 Received: 11/18/15 10:00 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	11/19/15 19:26	11/20/15 08:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	11/19/15 19:26	11/20/15 08:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 15:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 15:49	994-05-8	
Benzene	**4.3J**	ug/L	5.0	1.7	1		11/22/15 15:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 15:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 15:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 15:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 15:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 15:49	108-20-3	
Ethanol	**139J**	ug/L	200	138	1		11/22/15 15:49	64-17-5	B
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 15:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 15:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 15:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 15:49	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 15:49	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 15:49	1330-20-7	
m&p-Xylene	**6.2J**	ug/L	10.0	3.1	1		11/22/15 15:49	179601-23-1	
o-Xylene	**1.7J**	ug/L	5.0	1.6	1		11/22/15 15:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/22/15 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		11/22/15 15:49	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/22/15 15:49	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 DW-2 **Lab ID: 92276594022** Collected: 11/12/15 10:00 Received: 11/18/15 10:00 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	11/19/15 19:27	11/20/15 09:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	79	%	60-140		1	11/19/15 19:27	11/20/15 09:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 16:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 16:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 16:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 16:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 16:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 16:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 16:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 16:06	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 16:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 16:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 16:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 16:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 16:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 16:06	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 16:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 16:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 16:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		11/22/15 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		11/22/15 16:06	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/22/15 16:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 DUPLICATE 1 **Lab ID: 92276594023** Collected: 11/12/15 13:25 Received: 11/18/15 10:00 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)	**0.91**	ug/L	0.040	0.040	2	11/19/15 19:27	11/22/15 14:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		2	11/19/15 19:27	11/22/15 14:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**10800**	ug/L	2500	1920	25		11/23/15 18:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		11/23/15 18:08	994-05-8	
Benzene	**4260**	ug/L	125	42.5	25		11/23/15 18:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		11/23/15 18:08	624-95-3	
tert-Butyl Alcohol	**2290J**	ug/L	2500	1440	25		11/23/15 18:08	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		11/23/15 18:08	762-75-4	
1,2-Dichloroethane	**79.6J**	ug/L	125	45.0	25		11/23/15 18:08	107-06-2	
Diisopropyl ether	ND	ug/L	125	42.5	25		11/23/15 18:08	108-20-3	
Ethanol	ND	ug/L	5000	3440	25		11/23/15 18:08	64-17-5	
Ethylbenzene	**143**	ug/L	125	40.0	25		11/23/15 18:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		11/23/15 18:08	637-92-3	
Methyl-tert-butyl ether	**4200**	ug/L	125	42.5	25		11/23/15 18:08	1634-04-4	
Naphthalene	**51.6J**	ug/L	125	50.0	25		11/23/15 18:08	91-20-3	
Toluene	ND	ug/L	125	40.0	25		11/23/15 18:08	108-88-3	
Xylene (Total)	**3280**	ug/L	250	67.5	25		11/23/15 18:08	1330-20-7	
m&p-Xylene	**2560**	ug/L	250	77.5	25		11/23/15 18:08	179601-23-1	
o-Xylene	**726**	ug/L	125	40.0	25		11/23/15 18:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		25		11/23/15 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		25		11/23/15 18:08	17060-07-0	
Toluene-d8 (S)	111	%	70-130		25		11/23/15 18:08	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 DUPLICATE 2 **Lab ID: 92276594024** Collected: 11/12/15 14:35 Received: 11/18/15 10:00 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)	**13.4**	ug/L	0.50	0.50	25	11/19/15 19:27	11/22/15 15:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	11/19/15 19:27	11/22/15 15:07	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**26200**	ug/L	1000	768	10		11/22/15 21:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		11/22/15 21:46	994-05-8	
Benzene	**5680**	ug/L	500	170	100		11/23/15 22:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		11/22/15 21:46	624-95-3	
tert-Butyl Alcohol	**15400**	ug/L	1000	577	10		11/22/15 21:46	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		11/22/15 21:46	762-75-4	
1,2-Dichloroethane	**158**	ug/L	50.0	18.0	10		11/22/15 21:46	107-06-2	
Diisopropyl ether	**59.0**	ug/L	50.0	17.0	10		11/22/15 21:46	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		11/22/15 21:46	64-17-5	
Ethylbenzene	**555**	ug/L	50.0	16.0	10		11/22/15 21:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		11/22/15 21:46	637-92-3	
Methyl-tert-butyl ether	**10100**	ug/L	500	170	100		11/23/15 22:59	1634-04-4	
Naphthalene	**261**	ug/L	50.0	20.0	10		11/22/15 21:46	91-20-3	
Toluene	**7220**	ug/L	500	160	100		11/23/15 22:59	108-88-3	
Xylene (Total)	**3920**	ug/L	100	27.0	10		11/22/15 21:46	1330-20-7	
m&p-Xylene	**2580**	ug/L	100	31.0	10		11/22/15 21:46	179601-23-1	
o-Xylene	**1340**	ug/L	50.0	16.0	10		11/22/15 21:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		10		11/22/15 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		10		11/22/15 21:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		11/22/15 21:46	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 FIELD BLANK **Lab ID: 92276594025** Collected: 11/12/15 12:05 Received: 11/18/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/19/15 19:27	11/20/15 10:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	81	%	60-140		1	11/19/15 19:27	11/20/15 10:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 12:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 12:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 12:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 12:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 12:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 12:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 12:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 12:08	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 12:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 12:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 12:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 12:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 12:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 12:08	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 12:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 12:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 12:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/22/15 12:08	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/22/15 12:08	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/22/15 12:08	2037-26-5	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 92276594

Sample: 05678 TRIP BLANK **Lab ID: 92276594026** Collected: 11/12/15 00:00 Received: 11/18/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/22/15 12:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/22/15 12:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/22/15 12:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/22/15 12:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/22/15 12:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/22/15 12:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/22/15 12:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/22/15 12:25	108-20-3	
Ethanol	ND	ug/L	200	138	1		11/22/15 12:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/22/15 12:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/22/15 12:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/22/15 12:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/22/15 12:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/22/15 12:25	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/22/15 12:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/22/15 12:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/22/15 12:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/22/15 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		11/22/15 12:25	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/22/15 12:25	2037-26-5	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: MSV/34381 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92276594003, 92276594005, 92276594006

METHOD BLANK: 1612661 Matrix: Water
Associated Lab Samples: 92276594003, 92276594005, 92276594006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/21/15 14:16	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/21/15 14:16	
Benzene	ug/L	ND	5.0	1.7	11/21/15 14:16	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/21/15 14:16	
Ethanol	ug/L	ND	200	138	11/21/15 14:16	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/21/15 14:16	
Ethylbenzene	ug/L	ND	5.0	1.6	11/21/15 14:16	
m&p-Xylene	ug/L	ND	10.0	3.1	11/21/15 14:16	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/21/15 14:16	
Naphthalene	ug/L	ND	5.0	2.0	11/21/15 14:16	
o-Xylene	ug/L	ND	5.0	1.6	11/21/15 14:16	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/21/15 14:16	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/21/15 14:16	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/21/15 14:16	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/21/15 14:16	
Toluene	ug/L	ND	5.0	1.6	11/21/15 14:16	
Xylene (Total)	ug/L	ND	10.0	2.7	11/21/15 14:16	
1,2-Dichloroethane-d4 (S)	%	102	70-130		11/21/15 14:16	
4-Bromofluorobenzene (S)	%	103	70-130		11/21/15 14:16	
Toluene-d8 (S)	%	109	70-130		11/21/15 14:16	

LABORATORY CONTROL SAMPLE: 1612662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.5	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1180	118	70-130	
Benzene	ug/L	50	49.7	99	70-130	
Diisopropyl ether	ug/L	50	52.6	105	70-130	
Ethanol	ug/L	2000	2210	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	46.4	93	70-130	
m&p-Xylene	ug/L	100	93.5	93	70-130	
Methyl-tert-butyl ether	ug/L	50	52.8	106	70-130	
Naphthalene	ug/L	50	50.3	101	70-130	
o-Xylene	ug/L	50	46.1	92	70-130	
tert-Amyl Alcohol	ug/L	1000	980	98	70-130	
tert-Amylmethyl ether	ug/L	100	99.2	99	70-130	
tert-Butyl Alcohol	ug/L	500	571	114	70-130	
tert-Butyl Formate	ug/L	400	430	107	70-130	
Toluene	ug/L	50	44.4	89	70-130	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

LABORATORY CONTROL SAMPLE: 1612662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 1612663

Parameter	Units	92276594005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.5	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	440	110	70-130	
Benzene	ug/L	ND	20	22.4	112	70-130	
Diisopropyl ether	ug/L	ND	20	19.5	98	70-130	
Ethanol	ug/L	ND	800	1160	144	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	37.9	95	70-130	
Ethylbenzene	ug/L	ND	20	21.3	107	70-130	
m&p-Xylene	ug/L	ND	40	44.1	110	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	23.1	116	70-130	
Naphthalene	ug/L	ND	20	20.7	102	70-130	
o-Xylene	ug/L	ND	20	21.4	107	70-130	
tert-Amyl Alcohol	ug/L	ND	400	435	109	70-130	
tert-Amylmethyl ether	ug/L	ND	40	37.5	94	70-130	
tert-Butyl Alcohol	ug/L	ND	200	351	175	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.1	101	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1612664

Parameter	Units	92276594006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	53.4	49.4	8	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	12.8	11.7	9	30	
Methyl-tert-butyl ether	ug/L	30.8	29.7	4	30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	2.6J	2.5J		30	
tert-Amyl Alcohol	ug/L	242	252	4	30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

SAMPLE DUPLICATE: 1612664

Parameter	Units	92276594006 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	12.8	11.7	9	30	
1,2-Dichloroethane-d4 (S)	%	103	103	0		
4-Bromofluorobenzene (S)	%	99	100	1		
Toluene-d8 (S)	%	108	108	0		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: MSV/34387 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92276594008, 92276594009, 92276594010, 92276594011, 92276594012, 92276594014, 92276594016, 92276594017, 92276594018, 92276594021, 92276594022, 92276594025, 92276594026

METHOD BLANK: 1612813 Matrix: Water
Associated Lab Samples: 92276594008, 92276594009, 92276594010, 92276594011, 92276594012, 92276594014, 92276594016, 92276594017, 92276594018, 92276594021, 92276594022, 92276594025, 92276594026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/22/15 11:34	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/22/15 11:34	
Benzene	ug/L	ND	5.0	1.7	11/22/15 11:34	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/22/15 11:34	
Ethanol	ug/L	190J	200	138	11/22/15 11:34	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/22/15 11:34	
Ethylbenzene	ug/L	ND	5.0	1.6	11/22/15 11:34	
m&p-Xylene	ug/L	ND	10.0	3.1	11/22/15 11:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/22/15 11:34	
Naphthalene	ug/L	ND	5.0	2.0	11/22/15 11:34	
o-Xylene	ug/L	ND	5.0	1.6	11/22/15 11:34	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/22/15 11:34	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/22/15 11:34	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/22/15 11:34	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/22/15 11:34	
Toluene	ug/L	ND	5.0	1.6	11/22/15 11:34	
Xylene (Total)	ug/L	ND	10.0	2.7	11/22/15 11:34	
1,2-Dichloroethane-d4 (S)	%	109	70-130		11/22/15 11:34	
4-Bromofluorobenzene (S)	%	106	70-130		11/22/15 11:34	
Toluene-d8 (S)	%	109	70-130		11/22/15 11:34	

LABORATORY CONTROL SAMPLE: 1612814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.9	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	54.6	109	70-130	
Diisopropyl ether	ug/L	50	52.7	105	70-130	
Ethanol	ug/L	2000	2030	101	70-130	
Ethyl-tert-butyl ether	ug/L	100	106	106	70-130	
Ethylbenzene	ug/L	50	51.7	103	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	62.6	125	70-130	
Naphthalene	ug/L	50	49.9	100	70-130	
o-Xylene	ug/L	50	50.7	101	70-130	
tert-Amyl Alcohol	ug/L	1000	890	89	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	534	107	70-130	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

LABORATORY CONTROL SAMPLE: 1612814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	354	88	70-130	
Toluene	ug/L	50	48.5	97	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 1612815

Parameter	Units	92276594008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	346	87	70-130	
Benzene	ug/L	ND	20	23.3	117	70-130	
Diisopropyl ether	ug/L	ND	20	20.7	103	70-130	
Ethanol	ug/L	ND	800	1050	131	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	39.4	98	70-130	
Ethylbenzene	ug/L	ND	20	21.7	109	70-130	
m&p-Xylene	ug/L	ND	40	45.7	114	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	27.1	135	70-130	M1
Naphthalene	ug/L	ND	20	19.7	98	70-130	
o-Xylene	ug/L	ND	20	21.0	105	70-130	
tert-Amyl Alcohol	ug/L	ND	400	525	131	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	38.2	95	70-130	
tert-Butyl Alcohol	ug/L	ND	200	397	198	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	21.5	107	70-130	
1,2-Dichloroethane-d4 (S)	%				112	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1612816

Parameter	Units	92276594009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

SAMPLE DUPLICATE: 1612816

Parameter	Units	92276594009 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	111	1		
4-Bromofluorobenzene (S)	%	106	106	0		
Toluene-d8 (S)	%	109	112	2		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: MSV/34388 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92276594002, 92276594004, 92276594007, 92276594013, 92276594019, 92276594020, 92276594024

METHOD BLANK: 1612817 Matrix: Water
Associated Lab Samples: 92276594002, 92276594004, 92276594007, 92276594013, 92276594019, 92276594020, 92276594024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/22/15 11:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/22/15 11:51	
Benzene	ug/L	ND	5.0	1.7	11/22/15 11:51	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/22/15 11:51	
Ethanol	ug/L	ND	200	138	11/22/15 11:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/22/15 11:51	
Ethylbenzene	ug/L	ND	5.0	1.6	11/22/15 11:51	
m&p-Xylene	ug/L	ND	10.0	3.1	11/22/15 11:51	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/22/15 11:51	
Naphthalene	ug/L	ND	5.0	2.0	11/22/15 11:51	
o-Xylene	ug/L	ND	5.0	1.6	11/22/15 11:51	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/22/15 11:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/22/15 11:51	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/22/15 11:51	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/22/15 11:51	
Toluene	ug/L	ND	5.0	1.6	11/22/15 11:51	
Xylene (Total)	ug/L	ND	10.0	2.7	11/22/15 11:51	
1,2-Dichloroethane-d4 (S)	%	108	70-130		11/22/15 11:51	
4-Bromofluorobenzene (S)	%	107	70-130		11/22/15 11:51	
Toluene-d8 (S)	%	110	70-130		11/22/15 11:51	

LABORATORY CONTROL SAMPLE: 1612818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.5	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1130	113	70-130	
Benzene	ug/L	50	49.6	99	70-130	
Diisopropyl ether	ug/L	50	50.1	100	70-130	
Ethanol	ug/L	2000	2140	107	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	46.8	94	70-130	
m&p-Xylene	ug/L	100	96.4	96	70-130	
Methyl-tert-butyl ether	ug/L	50	58.5	117	70-130	
Naphthalene	ug/L	50	50.0	100	70-130	
o-Xylene	ug/L	50	46.1	92	70-130	
tert-Amyl Alcohol	ug/L	1000	967	97	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	567	113	70-130	
tert-Butyl Formate	ug/L	400	350	87	70-130	
Toluene	ug/L	50	44.2	88	70-130	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

LABORATORY CONTROL SAMPLE: 1612818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1612819

Parameter	Units	92276994001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.9	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	391	98	70-130	
Benzene	ug/L	10.7	20	35.8	126	70-130	
Diisopropyl ether	ug/L	ND	20	21.9	109	70-130	
Ethanol	ug/L	ND	800	1010	126	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	41.1	103	70-130	
Ethylbenzene	ug/L	8.6	20	31.1	112	70-130	
m&p-Xylene	ug/L	14.3	40	61.7	119	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	27.4	134	70-130	M1
Naphthalene	ug/L	ND	20	23.0	107	70-130	
o-Xylene	ug/L	ND	20	23.2	111	70-130	
tert-Amyl Alcohol	ug/L	186	400	504	79	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.2	100	70-130	
tert-Butyl Alcohol	ug/L	ND	200	351	171	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	22.4	107	70-130	
1,2-Dichloroethane-d4 (S)	%				110	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1612820

Parameter	Units	92276994003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	40.2	43.8	9	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	201	232	14	30	
Naphthalene	ug/L	4.9J	5.6		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

SAMPLE DUPLICATE: 1612820

Parameter	Units	92276994003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	117	114	3		
4-Bromofluorobenzene (S)	%	113	108	5		
Toluene-d8 (S)	%	109	110	1		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: MSV/34390
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92276594015

METHOD BLANK: 1612834
Matrix: Water
Associated Lab Samples: 92276594015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/23/15 00:19	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/23/15 00:19	
Benzene	ug/L	ND	5.0	1.7	11/23/15 00:19	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/23/15 00:19	
Ethanol	ug/L	ND	200	138	11/23/15 00:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/23/15 00:19	
Ethylbenzene	ug/L	ND	5.0	1.6	11/23/15 00:19	
m&p-Xylene	ug/L	ND	10.0	3.1	11/23/15 00:19	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/23/15 00:19	
Naphthalene	ug/L	ND	5.0	2.0	11/23/15 00:19	
o-Xylene	ug/L	ND	5.0	1.6	11/23/15 00:19	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/23/15 00:19	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/23/15 00:19	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/23/15 00:19	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/23/15 00:19	
Toluene	ug/L	ND	5.0	1.6	11/23/15 00:19	
Xylene (Total)	ug/L	ND	10.0	2.7	11/23/15 00:19	
1,2-Dichloroethane-d4 (S)	%	111	70-130		11/23/15 00:19	
4-Bromofluorobenzene (S)	%	104	70-130		11/23/15 00:19	
Toluene-d8 (S)	%	113	70-130		11/23/15 00:19	

LABORATORY CONTROL SAMPLE: 1612835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.1	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1130	113	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	51.4	103	70-130	
Ethanol	ug/L	2000	2320	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	48.8	98	70-130	
m&p-Xylene	ug/L	100	99.0	99	70-130	
Methyl-tert-butyl ether	ug/L	50	58.6	117	70-130	
Naphthalene	ug/L	50	47.5	95	70-130	
o-Xylene	ug/L	50	47.5	95	70-130	
tert-Amyl Alcohol	ug/L	1000	978	98	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	574	115	70-130	
tert-Butyl Formate	ug/L	400	326	81	70-130	
Toluene	ug/L	50	45.7	91	70-130	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

LABORATORY CONTROL SAMPLE: 1612835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	146	98	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1612836

Parameter	Units	92276994035 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.2	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	300	75	70-130	
Benzene	ug/L	ND	20	21.8	109	70-130	
Diisopropyl ether	ug/L	ND	20	18.0	90	70-130	
Ethanol	ug/L	ND	800	988	124	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	33.7	84	70-130	
Ethylbenzene	ug/L	ND	20	19.1	95	70-130	
m&p-Xylene	ug/L	ND	40	39.5	99	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	23.6	118	70-130	
Naphthalene	ug/L	ND	20	15.3	77	70-130	
o-Xylene	ug/L	ND	20	18.4	92	70-130	
tert-Amyl Alcohol	ug/L	ND	400	350	88	70-130	
tert-Amylmethyl ether	ug/L	ND	40	34.3	86	70-130	
tert-Butyl Alcohol	ug/L	ND	200	259	129	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	19.7	97	70-130	
1,2-Dichloroethane-d4 (S)	%				112	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 1612837

Parameter	Units	92276994036 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

SAMPLE DUPLICATE: 1612837

Parameter	Units	92276994036 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	115	116	0		
4-Bromofluorobenzene (S)	%	106	106	0		
Toluene-d8 (S)	%	113	114	0		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: MSV/34399 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92276594001, 92276594023

METHOD BLANK: 1613474 Matrix: Water
Associated Lab Samples: 92276594001, 92276594023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/23/15 17:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/23/15 17:00	
Benzene	ug/L	ND	5.0	1.7	11/23/15 17:00	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/23/15 17:00	
Ethanol	ug/L	ND	200	138	11/23/15 17:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/23/15 17:00	
Ethylbenzene	ug/L	ND	5.0	1.6	11/23/15 17:00	
m&p-Xylene	ug/L	ND	10.0	3.1	11/23/15 17:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/23/15 17:00	
Naphthalene	ug/L	ND	5.0	2.0	11/23/15 17:00	
o-Xylene	ug/L	ND	5.0	1.6	11/23/15 17:00	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/23/15 17:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/23/15 17:00	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/23/15 17:00	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/23/15 17:00	
Toluene	ug/L	ND	5.0	1.6	11/23/15 17:00	
Xylene (Total)	ug/L	ND	10.0	2.7	11/23/15 17:00	
1,2-Dichloroethane-d4 (S)	%	109	70-130		11/23/15 17:00	
4-Bromofluorobenzene (S)	%	87	70-130		11/23/15 17:00	
Toluene-d8 (S)	%	110	70-130		11/23/15 17:00	

LABORATORY CONTROL SAMPLE: 1613475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.4	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	895	90	70-130	
Benzene	ug/L	50	54.0	108	70-130	
Diisopropyl ether	ug/L	50	59.5	119	70-130	
Ethanol	ug/L	2000	2300	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	46.1	92	70-130	
m&p-Xylene	ug/L	100	91.7	92	70-130	
Methyl-tert-butyl ether	ug/L	50	62.3	125	70-130	
Naphthalene	ug/L	50	48.5	97	70-130	
o-Xylene	ug/L	50	45.3	91	70-130	
tert-Amyl Alcohol	ug/L	1000	818	82	70-130	
tert-Amylmethyl ether	ug/L	100	96.7	97	70-130	
tert-Butyl Alcohol	ug/L	500	515	103	70-130	
tert-Butyl Formate	ug/L	400	411	103	70-130	
Toluene	ug/L	50	46.2	92	70-130	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

LABORATORY CONTROL SAMPLE: 1613475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			84	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1613476

Parameter	Units	92276594001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	180J	1000	1270	109	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	15000	75	70-130	
Benzene	ug/L	5150	1000	6020	87	70-130	
Diisopropyl ether	ug/L	ND	1000	1280	123	70-130	
Ethanol	ug/L	ND	40000	26000	65	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	2000	2170	109	70-130	
Ethylbenzene	ug/L	563	1000	1610	105	70-130	
m&p-Xylene	ug/L	2410	2000	4460	103	70-130	
Methyl-tert-butyl ether	ug/L	8530	1000	11000	252	70-130	E,M1
Naphthalene	ug/L	289	1000	1270	98	70-130	
o-Xylene	ug/L	1230	1000	2340	112	70-130	
tert-Amyl Alcohol	ug/L	20700	20000	35900	76	70-130	
tert-Amylmethyl ether	ug/L	ND	2000	2040	101	70-130	
tert-Butyl Alcohol	ug/L	11900	10000	20600	86	70-130	
tert-Butyl Formate	ug/L	ND	8000	6260	78	70-130	
Toluene	ug/L	6510	1000	6790	28	70-130	M1
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				88	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1613477

Parameter	Units	92276594023 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	79.6J	70.7J		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	4260	4090	4	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	143	131	9	30	
m&p-Xylene	ug/L	2560	2440	5	30	
Methyl-tert-butyl ether	ug/L	4200	4110	2	30	
Naphthalene	ug/L	51.6J	ND		30	
o-Xylene	ug/L	726	710	2	30	
tert-Amyl Alcohol	ug/L	10800	9550	12	30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

SAMPLE DUPLICATE: 1613477

Parameter	Units	92276594023 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	2290J	1730J		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	3280	3150	4	30	
1,2-Dichloroethane-d4 (S)	%	117	112	4		
4-Bromofluorobenzene (S)	%	87	85	2		
Toluene-d8 (S)	%	111	111	0		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: OEXT/39174 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92276594002, 92276594003, 92276594004, 92276594005, 92276594006

METHOD BLANK: 1610664 Matrix: Water
Associated Lab Samples: 92276594002, 92276594003, 92276594004, 92276594005, 92276594006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/20/15 08:52	
1-Chloro-2-bromopropane (S)	%	96	60-140		11/20/15 08:52	

LABORATORY CONTROL SAMPLE & LCSD: 1610665 1610666

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	0.34	0.30	120	106	60-140	14	20	
1-Chloro-2-bromopropane (S)	%				110	96	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1610667 1610668

Parameter	Units	92276283004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.29	0.29	104	106	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						97	97	60-140			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: OEXT/39177 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92276594008, 92276594009, 92276594010, 92276594011, 92276594012, 92276594013, 92276594014, 92276594015, 92276594016, 92276594017

METHOD BLANK: 1610679 Matrix: Water
Associated Lab Samples: 92276594008, 92276594009, 92276594010, 92276594011, 92276594012, 92276594013, 92276594014, 92276594015, 92276594016, 92276594017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/19/15 22:10	
1-Chloro-2-bromopropane (S)	%	96	60-140		11/19/15 22:10	

LABORATORY CONTROL SAMPLE & LCSD: 1610680 1610681

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	0.26	0.23	90	80	60-140	13	20	
1-Chloro-2-bromopropane (S)	%				86	76	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1610682 1610683

Parameter	Units	92275641001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.27	0.28	94	98	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						92	96	60-140			

SAMPLE DUPLICATE: 1610684

Parameter	Units	92275641002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	109	95	14		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: OEXT/39181 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92276594018, 92276594019, 92276594020, 92276594021, 92276594022, 92276594023, 92276594024, 92276594025

METHOD BLANK: 1610714 Matrix: Water
Associated Lab Samples: 92276594018, 92276594019, 92276594020, 92276594021, 92276594022, 92276594023, 92276594024, 92276594025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/20/15 06:45	
1-Chloro-2-bromopropane (S)	%	88	60-140		11/20/15 06:45	

LABORATORY CONTROL SAMPLE & LCSD: 1610715 1610716

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	0.29	0.24	102	84	60-140	19	20	
1-Chloro-2-bromopropane (S)	%				94	78	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1610718 1610719

Parameter	Units	92276562003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.28	0.27	98	94	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						95	89	60-140			

SAMPLE DUPLICATE: 1610717

Parameter	Units	92276594021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	82	95	18		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: OEXT/39249 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92276594001

METHOD BLANK: 1612839 Matrix: Water
Associated Lab Samples: 92276594001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/23/15 12:33	
1-Chloro-2-bromopropane (S)	%	98	60-140		11/23/15 12:33	

LABORATORY CONTROL SAMPLE & LCSD: 1612840 1612841

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	0.26	0.27	90	94	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				100	98	60-140			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 92276594

QC Batch: OEXT/39296 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92276594007

METHOD BLANK: 1614371 Matrix: Water
Associated Lab Samples: 92276594007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/24/15 21:54	
1-Chloro-2-bromopropane (S)	%	90	60-140		11/24/15 21:54	

LABORATORY CONTROL SAMPLE & LCSD: 1614372 1614373

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	0.29	0.30	100	104	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				89	89	60-140			

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 92276594

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SHORT STOP
Pace Project No.: 92276594

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92276594001	05678 MW-1R	EPA 8011	OEXT/39249	EPA 8011	GCSV/23292
92276594002	05678 MW-2R	EPA 8011	OEXT/39174	EPA 8011	GCSV/23268
92276594003	05678 MW-4R	EPA 8011	OEXT/39174	EPA 8011	GCSV/23268
92276594004	05678 MW-5	EPA 8011	OEXT/39174	EPA 8011	GCSV/23268
92276594005	05678 MW-6	EPA 8011	OEXT/39174	EPA 8011	GCSV/23268
92276594006	05678 MW-7	EPA 8011	OEXT/39174	EPA 8011	GCSV/23268
92276594007	05678 MW-8	EPA 8011	OEXT/39296	EPA 8011	GCSV/23330
92276594008	05678 MW-9	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594009	05678 MW-10	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594010	05678 MW-11	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594011	05678 MW-12	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594012	05678 MW-13	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594013	05678 MW-14	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594014	05678 MW-15	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594015	05678 MW-16	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594016	05678 MW-17	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594017	05678 MW-18	EPA 8011	OEXT/39177	EPA 8011	GCSV/23269
92276594018	05678 MW-19	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594019	05678 MW-20	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594020	05678 MW-21	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594021	05678 DW-1	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594022	05678 DW-2	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594023	05678 DUPLICATE 1	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594024	05678 DUPLICATE 2	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594025	05678 FIELD BLANK	EPA 8011	OEXT/39181	EPA 8011	GCSV/23270
92276594001	05678 MW-1R	EPA 8260	MSV/34399		
92276594002	05678 MW-2R	EPA 8260	MSV/34388		
92276594003	05678 MW-4R	EPA 8260	MSV/34381		
92276594004	05678 MW-5	EPA 8260	MSV/34388		
92276594005	05678 MW-6	EPA 8260	MSV/34381		
92276594006	05678 MW-7	EPA 8260	MSV/34381		
92276594007	05678 MW-8	EPA 8260	MSV/34388		
92276594008	05678 MW-9	EPA 8260	MSV/34387		
92276594009	05678 MW-10	EPA 8260	MSV/34387		
92276594010	05678 MW-11	EPA 8260	MSV/34387		
92276594011	05678 MW-12	EPA 8260	MSV/34387		
92276594012	05678 MW-13	EPA 8260	MSV/34387		
92276594013	05678 MW-14	EPA 8260	MSV/34388		
92276594014	05678 MW-15	EPA 8260	MSV/34387		
92276594015	05678 MW-16	EPA 8260	MSV/34390		
92276594016	05678 MW-17	EPA 8260	MSV/34387		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SHORT STOP
Pace Project No.: 92276594

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92276594017	**05678 MW-18**	EPA 8260	MSV/34387		
92276594018	**05678 MW-19**	EPA 8260	MSV/34387		
92276594019	**05678 MW-20**	EPA 8260	MSV/34388		
92276594020	**05678 MW-21**	EPA 8260	MSV/34388		
92276594021	**05678 DW-1**	EPA 8260	MSV/34387		
92276594022	**05678 DW-2**	EPA 8260	MSV/34387		
92276594023	**05678 DUPLICATE 1**	EPA 8260	MSV/34399		
92276594024	**05678 DUPLICATE 2**	EPA 8260	MSV/34388		
92276594025	**05678 FIELD BLANK**	EPA 8260	MSV/34387		
92276594026	**05678 TRIP BLANK**	EPA 8260	MSV/34387		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 3

2003192

Section A Required Client Information:

Company:	KLM Env.
Address:	Po Box 2704 Goose Creek
	Goose Creek SC 29445
Email To:	mkeller131@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	824-2

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEXNM	12DCA	8 oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92276594
1	05678 MW-1R	WT	G	11/12/15			1430						X						X	X	X	X		001
2	MW-2R						1630																	002
3	MW-4R						1500																	003
4	MW-5						1530																	004
5	MW-6						1445																	005
6	MW-7						1315																	006
7	MW-8						1345																	007
8	MW-9						1300																	008
9	MW-10						1240																	009
10	MW-11						1215																	010
11	MW-12						1130																	011
12	MW-13						1115																	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	11/16/15	1700	[signature] HCL	11/18/15	1000	4S	4	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 3

2003193

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	KLM Env.	Report To:	Mark Keller	Attention:	
Address:		Copy To:		Company Name:	
				Address:	
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Short Stop	Pace Project Manager:	
Requested Due Date/TAT:		Project Number:		Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): BTEX+MM	12 DCA	8 oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92276594
1	05678 MW-14	WT	G	11/12/15			1045						X					X	X	X	X		013
2	MW-15						1015																014
3	MW-16						1030																015
4	MW-17						1100																016
5	MW-18						1150																017
6	MW-19						1515																018
7	MW-20						1545																019
8	MW-21						1330																020
9	DW-1						1415																021
10	DW-2						1000																022
11	Duplicate 1						1325																023
12	Duplicate 2						1435											X	X	X	X		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	11/16/15	1700	[signature]	11/18/15	1000	45	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 3

1999864

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Kim Env	Report To:	Attention:
Address:	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT:	Project Number: Short Stop	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX+Nap	RCRA 8 Oxygenates EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	05678 Field Blank	WT	G	11/12/15			1205						X					X	X	X		025
2	Trip Blank	W	X	X									X					X	X	X		026
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		11/16/15	1900		11.17.15	1000	4.3	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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.

Water Quality Meter Calibration Sheet

Project: Shark Stop

Personnel : M. Bennett

Calibration Date : 11/12/15

Time : 930

Meter Horiba U-52

Serial # W22MV13L

pH= 3.99 (100-4 Standard Solution)

Spec. Cond. = .456 mS/cm (100-4 Standard Solution)

Turb. = 0 NTU(100-4 Standard Solution)

D.O. = 5.17 mg/L (Air)

Signature

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 1R-02

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.22 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		33.92	33.91	34.94	35.76			
Volume Purged (gallons)		2.5	5.0	7.5	10			
Time (military)		1423	1425	1427	1430			
Water Temp (°F)		72.2	72.4	72.5	72.6			
pH (s.u.)		5.68	5.71	5.77	5.79			
Specific Cond. (mS/cm)		.249	.247	.249	.252			
Turbidity (NTU)		499	211	217	215			
Dissolved Oxygen (mg/L)		3.65	3.12	2.97	2.93			
Salinity		0.1	0.1	0.1	0.1			
OVA		–	–	–	–			

Sample Time: 1430

Purge 1435

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 2R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 42 ft.
Depth to GW (DWG) 23.35 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		37.17	39.79					
Volume Purged (gallons)		2	3					
Time (military)		1618	1625					
Water Temp (°F)		68.1	69.7					
pH (s.u.)		5.60	5.69					
Specific Cond. (mS/cm)		.231	.290					
Turbidity (NTU)		92.2	217					
Dissolved Oxygen (mg/L)		1.55	1.91					
Salinity		0.1	0.1					
OVA		–	–					

Sample Time: 1630

DMB 3

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-3R

Well Diameter(D) 2 inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 25.43 - ft. 27.25

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

FP NS

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 4R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.30 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 8 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		29.78	30.11	31.06				
Volume Purged (gallons)		4	6	8				
Time (military)		1450	1455	1500				
Water Temp (°F)		67.3	68.9	68.8				
pH (s.u.)		5.52	5.55	5.59				
Specific Cond. (mS/cm)		.189	.191	.193				
Turbidity (NTU)		446	449	451				
Dissolved Oxygen (mg/L)		1.45	1.60	1.57				
Salinity		0.1	0.1	0.1				
OVA		-	-	-				

Sample Time: 1500

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.21 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		35.01	35.11	35.42	35.81	36.19		
Volume Purged (gallons)		3	6	9	10	11.5		
Time (military)		1520	1523	1525	1527	1530		
Water Temp (°F)		66.8	67.0	67.0	67.1	67.0		
pH (s.u.)		5.70	5.73	5.77	5.79	5.81		
Specific Cond. (mS/cm)		.164	.164	.163	.163	.163		
Turbidity (NTU)		570	760	296	290	287		
Dissolved Oxygen (mg/L)		2.85	3.64	3.55	3.51	3.46		
Salinity		0.1	0.1	0.1	0.1	0.1		
OVA		–	–	–	–	–		

Sample Time: 1539

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.37 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		33.03	39.40					
Volume Purged (gallons)		2.5	3					
Time (military)		1435	1440					
Water Temp (°F)		68.4	69.2					
pH (s.u.)		6.14	6.21					
Specific Cond. (mS/cm)		.077	.079					
Turbidity (NTU)		300	423					
Dissolved Oxygen (mg/L)		4.20	3.10					
Salinity		0.0	0.0					
OVA		-	-					

Sample Time: 1445

Dup 3

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.32 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		26.12	39.10					
Volume Purged (gallons)		3	4					
Time (military)		1306	1310					
Water Temp (°F)		65.6	65.9					
pH (s.u.)		5.39	5.61					
Specific Cond. (mS/cm)		.201	.192					
Turbidity (NTU)		200	655					
Dissolved Oxygen (mg/L)		4.55	3.40					
Salinity		0.1	0.1					
OVA		-	-					

Sample Time: 1315

Name 4 gal

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.45 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		34.19	34.55					
Volume Purged (gallons)		3	5					
Time (military)			1345					
Water Temp (°F)		67.6	67.6					
pH (s.u.)		5.45	5.38					
Specific Cond. (mS/cm)		.084	.075					
Turbidity (NTU)		800	800					
Dissolved Oxygen (mg/L)		3.10	4.86					
Salinity		0.0	0.0					
OVA		-	-					

Sample Time: 1345

DMPS

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.45 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post Sampling
Depth to GW		33.22	33.19	32.51	32.69	33.71	
Volume Purged (gallons)		3	6	8	10	13	
Time (military)		1249	1252	1254	1257	1300	
Water Temp (°F)		65.2	64.8	64.7	64.4	64.2	
pH (s.u.)		5.82	5.82	5.82	5.82	5.82	
Specific Cond. (mS/cm)		.103	.102	.103	.103	.103	
Turbidity (NTU)		800	800	800	800	800	
Dissolved Oxygen (mg/L)		5.80	5.80	5.95	5.94	5.86	
Salinity		0.0	0.0	0.0	0.0	0.1	
OVA		–	–	–	–	–	

Sample Time: 1300

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.46 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		30.61	39.60					
Volume Purged (gallons)		3	4					
Time (military)		1320	1325					
Water Temp (°F)		66.4	66.3					
pH (s.u.)		5.48	5.38					
Specific Cond. (mS/cm)		.143	.186					
Turbidity (NTU)		820	800					
Dissolved Oxygen (mg/L)		4.10	4.15					
Salinity		0.1	0.1					
OVA		-	-					

Sample Time: 1340

MWe4

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23.70 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		27.16	23.90	40				
Volume Purged (gallons)		4	10	12				
Time (military)		1205	1210	1215				
Water Temp (°F)		68.5	67.3	67.1				
pH (s.u.)		5.29	5.35	5.49				
Specific Cond. (mS/cm)		.105	.120	.121				
Turbidity (NTU)		140	800	800				
Dissolved Oxygen (mg/L)		3.10	3.52	5.99				
Salinity		0.0	0.1	0.1				
OVA		–	–	–				

Sample Time: 1215

~~Dry @~~ Dry @ 12 gal

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.13 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		28.05	34.12	35.51	35.71	35.85		
Volume Purged (gallons)		3 [illegible]	6	9	10	12		
Time (military)		1130	1124	1126	1127	1130		
Water Temp (°F)		70.9	71.0	71.1	71.1	71.1		
pH (s.u.)		5.10	5.14	5.06	5.07	5.09		
Specific Cond. (mS/cm)		.027	.033	.036	.037	.039		
Turbidity (NTU)		900	614	401	349	353		
Dissolved Oxygen (mg/L)		2.60	9.11	8.01	3.03	6.19		
Salinity		0.0	0.0	0.0	0.0	0.0		
OVA		-	-	-	-	-		

Sample Time: 1129

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.31 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x 163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		27.90	28.70	28.70	28.64	28.70		
Volume Purged (gallons)		3 ~~4105~~	6	9	10	11		
Time (military)		1105	1107	1110	1112	1115		
Water Temp (°F)		70.0	70.5	70.7	70.7	70.7		
pH (s.u.)		5.49	5.21	5.27	5.22	5.20		
Specific Cond. (mS/cm)		.094	.097	.101	.103	.102		
Turbidity (NTU)		233	124	1078	99.6	93		
Dissolved Oxygen (mg/L)		3.65	3.01	2.89	2.81	2.77		
Salinity		0.0	0.0	0.0	0.0	0.0		
OVA		-	-	-	-	-		

Sample Time: 1115

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 11.60 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		27.60	27.84	27.96	28.12	28.30		
Volume Purged (gallons)		3	6	9	10	11		
Time (military)		1035	1040	1043	1044	1043		
Water Temp (°F)		68.3	68.3	68.3	68.4	68.4		
pH (s.u.)		5.84	5.73	5.73	5.70	5.64		
Specific Cond. (mS/cm)		.155	.158	.159	.163	.162		
Turbidity (NTU)		800	463	517	520	527		
Dissolved Oxygen (mg/L)		2.41	2.19	1.92	1.89	1.86		
Salinity		0.1	0.1	0.1	0.1	0.1		
OVA		-	-	-	-	-		

Sample Time: 1043

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 31 ft.
Depth to GW (DWG) 19.33 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		23.97	26.50	26.71				
Volume Purged (gallons)		2	4	6				
Time (military)		1005	1008	1011				
Water Temp (°F)		64.7	64.7	64.7				
pH (s.u.)		5.70	5.77	5.75				
Specific Cond. (mS/cm)		1180	1180	1180				
Turbidity (NTU)		800	800	800				
Dissolved Oxygen (mg/L)		3.40	3.40	3.38				
Salinity		0.1	0.1	0.1				
OVA		-	-	-				

Sample Time: 1015

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 39 ft.
Depth to GW (DWG) 26.05 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		28.95	32.11	32.41				
Volume Purged (gallons)		3	5	7				
Time (military)		1020	1023	1027				
Water Temp (°F)		66.1	67.6	67.7				
pH (s.u.)		5.57	5.55	5.56				
Specific Cond. (mS/cm)		.116	.159	.157				
Turbidity (NTU)		900	360	310				
Dissolved Oxygen (mg/L)		3.84	2.71	2.70				
Salinity		0.0	0.0	0.0				
OVA		—	—	—				

Sample Time: 1030

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.39 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		29.20	29.75	29.77	29.75	29.79		
Volume Purged (gallons)		3	6	7	9	11		
Time (military)		1050	1052	1055	1058	1100		
Water Temp (°F)		69.3	70.5	70.4	70.5	70.5		
pH (s.u.)		5.85	5.75	5.80	5.83	5.86		
Specific Cond. (mS/cm)		.112	.127	.128	.130	.130		
Turbidity (NTU)		600	600	521	410	385		
Dissolved Oxygen (mg/L)		5.17	4.10	3.49	3.30	3.17		
Salinity		0.1	0.1	0.1	0.1	0.1		
OVA		–	–	–	–	–		

Sample Time: 1107

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23.10 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 11 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		24.50	24.60	25.02	25.10			
Volume Purged (gallons)		3	6	9	11			
Time (military)		1135	1139	1145	1150			
Water Temp (°F)		69.0	68.7	68.5	68.4			
pH (s.u.)		5.18	5.35	5.41	5.44			
Specific Cond. (mS/cm)		.090	.142	.143	.145			
Turbidity (NTU)		159	67.0	67.1	69.4			
Dissolved Oxygen (mg/L)		5.13	4.30	4.21	4.17			
Salinity		0.0	0.0	0.1	0.1			
OVA		—	—	—	—			

Sample Time: 1150

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.96 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		33.31	33.37	33.59				
Volume Purged (gallons)		2	4	7				
Time (military)		1505	1510	1515				
Water Temp (°F)		66.9	67.1	67.4				
pH (s.u.)		5.81	5.88	5.89				
Specific Cond. (mS/cm)		.134	.137	.139				
Turbidity (NTU)		178	164	167				
Dissolved Oxygen (mg/L)		5.30	5.22	5.18				
Salinity		0.1	0.1	0.1				
OVA		–	–	–				

Sample Time: 1515

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.46 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		34.02	34.07	34.16				
Volume Purged (gallons)		2	4.5	8				
Time (military)		1335	1340	1345				
Water Temp (°F)		67.1	67.7	67.8				
pH (s.u.)		5.63	5.60	5.56				
Specific Cond. (mS/cm)		43	220	221				
Turbidity (NTU)		139	133	137				
Dissolved Oxygen (mg/L)		1.34	1.24	1.20				
Salinity		0.1	0.1	0.1				
OVA		~	~	~				

Sample Time: 1345

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-21 = MW1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.62 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		33.00	39.62					
Volume Purged (gallons)		3	5					
Time (military)		1320	1325					
Water Temp (°F)		66.4	66.4					
pH (s.u.)		5.70	5.68					
Specific Cond. (mS/cm)		.189	.161					
Turbidity (NTU)		800	800					
Dissolved Oxygen (mg/L)		3.71	3.61					
Salinity		0.1	0.1					
OVA								

Sample Time: 1330

Dup. 1 1335

Dup 5.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) CNL ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** Dw.1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 63 ft.
Depth to GW (DWG) 25.15 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		62.19	63					
Volume Purged (gallons)		7	7.25					
Time (military)		1355	1357					
Water Temp (°F)		69.3	64.2					
pH (s.u.)		5.91	5.44					
Specific Cond. (mS/cm)		.172	.174					
Turbidity (NTU)		46.1	49.1					
Dissolved Oxygen (mg/L)		2.10	2.14					
Salinity		0.1	0.1					
OVA		—	—					

Sample Time:

Dwell gal.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 11/12/15
Field Personnel G. Long and M. Bennett
General Weather Condition Clear
Ambient Air Temperature 70
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- DW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 27.34 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW		27.34	28.11	28.09	28.10	28.11		
Volume Purged (gallons)		7	14	16	18	21		
Time (military)		946	951	953	955	1000		
Water Temp (°F)		64.0	64.6	64.8	64.9	64.9		
pH (s.u.)		6.04	5.86	5.87	5.86	5.86		
Specific Cond. (mS/cm)		.165	.161	.166	.163	.167		
Turbidity (NTU)		37.6	45.9	40.9	37.4	34.9		
Dissolved Oxygen (mg/L)		3.77	2.60	2.60	2.59	2.60		
Salinity		0.1	0.1	0.1	0.1	0.1		
OVA		-	-	-	-	-		

Sample Time: 1000

APPENDIX C

Regional Geology

APPENDIX D

Field Screening Logs

APPENDIX E

Well Logs

APPENDIX F

Aquifer Calculations / Historical Water Levels

TABLE 1 Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
	1/5/10			--	28.26	75.36
	12/1/10			--	28.60	75.02
	5/6/14			--	26.80	76.82
	11/12/15			--	26.22	77.40
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
	4/8/09			--	30.45	74.66
	1/5/10			--	29.72	75.39
	12/1/10			--	29.97	75.14
	5/6/14			--	28.40	76.71
	11/12/15			--	28.35	76.76
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
	4/8/09			--	30.51	75.16
	1/5/10			29.75	29.86	**FP**
	12/1/10			28.79	33.22	**FP**
	5/6/14			27.72	31.56	**FP**
	11/12/15			25.43	27.25	**FP**
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
	4/8/09			--	29.60	74.84
	1/5/10			--	28.99	75.45
	12/1/10			--	29.44	75.00
	5/6/14			--	27.40	77.04
	11/12/15			--	26.88	77.56
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
	4/8/09			--	30.55	75.07
	1/5/10			--	29.87	75.75
	12/1/10			--	29.95	75.67
	5/6/14			--	28.54	77.08
	11/12/15			--	25.21	80.41
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
	4/8/09			--	28.92	74.95
	1/5/10			--	28.23	75.64
	12/1/10			--	29.95	75.67
	5/6/14			--	26.50	77.37
	11/12/15			--	26.37	77.50

MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
	4/8/09			--	28.05	74.50
	1/5/10			--	27.27	75.28
	12/1/10			--	27.94	74.61
	5/6/14			--	25.67	76.88
	11/12/15			--	25.32	77.23
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
	4/8/09			--	27.44	74.38
	1/5/10			--	26.64	75.18
	12/1/10			--	27.12	74.70
	5/6/14			--	25.17	76.65
	11/12/15			--	25.45	76.37
MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
	4/8/09			--	27.71	74.32
	1/5/10			--	26.93	75.10
	12/1/10			--	27.79	74.24
	5/6/14			--	25.18	76.85
	11/12/15			--	25.45	76.58
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
	4/8/09			--	27.94	74.36
	1/5/10			--	27.17	75.13
	12/1/10			--	27.91	74.39
	5/6/14			--	25.49	76.81
	11/12/15			--	25.46	76.84
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
	4/8/09			--	26.22	74.23
	1/5/10			--	25.38	75.07
	12/1/10			--	25.93	74.52
	5/6/14			--	24.97	75.48
	11/12/15			--	23.70	76.75
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
	4/8/09			--	27.98	74.42
	1/5/10			--	27.25	75.15
	12/1/10			--	27.46	74.94
	5/6/14			--	25.94	76.46
	11/12/15			--	25.13	77.27
MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
	4/8/09			--	27.90	74.01
	1/5/10			--	27.18	74.73
	12/1/10			--	27.35	74.56
	5/6/14			--	25.92	75.99
	11/12/15			--	26.31	75.60

MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
	4/8/09			--	28.43	73.34
	1/5/10			--	27.71	74.06
	12/1/10			--	27.91	73.86
	5/6/14			--	26.38	75.39
	11/12/15			--	26.60	75.17
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
	4/8/09			--	21.90	72.70
	1/5/10			--	21.08	73.52
	12/1/10			--	21.90	72.70
	5/6/14			--	19.31	75.29
	11/12/15			--	19.38	75.22
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82
	4/8/09			--	28.34	72.92
	1/5/10			--	27.53	73.73
	12/1/10			--	27.98	73.28
	5/6/14			--	25.95	75.31
	11/12/15			--	26.05	75.21
MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
	4/8/09			--	28.50	73.19
	1/5/10			--	27.75	73.94
	12/1/10			--	27.67	74.02
	5/6/14			--	26.66	75.03
	11/12/15			--	26.38	75.31
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
	4/8/09			--	25.21	72.98
	1/5/10			--	24.33	73.86
	12/1/10			--	25.15	73.04
	5/6/14			--	22.69	75.5
	11/12/15			--	23.10	75.09
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
	4/8/09			--	28.12	78.74
	1/5/10			--	31.25	75.61
	12/1/10			--	31.55	75.31
	5/6/14			--	29.53	77.33
	11/12/15			--	28.96	77.90
MW-20	4/8/09	104.83	20-40	--	30.12	74.71
	1/5/10			--	29.37	75.46
	12/1/10			--	29.73	75.10
	5/6/14			--	27.95	76.88
	11/12/15			--	27.46	77.37
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
	1/5/10			--	27.32	75.34
	12/1/10			--	27.87	74.79
	5/6/14			--	25.72	76.94
	11/12/15			--	25.62	77.04
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
	1/5/10			--	26.01	75.22
	12/1/10			--	26.57	74.66
	5/6/14			--	24.44	76.79
	11/12/15			--	CNL	--

DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
	4/8/09			--	27.75	74.48
	1/5/10			--	28.19	74.04
	12/1/10			--	25.51	76.72
	5/6/14			--	25.49	76.74
	11/12/15			--	25.15	77.08
DW-2	12/8/08	94.62	40-60	--	23.31	71.31
	4/8/09			--	21.90	72.72
	1/5/10			--	21.14	73.48
	12/1/10			--	21.90	72.72
	5/6/14			--	19.37	75.25
	11/12/15			--	20.34	74.28

APPENDIX G

Disposal Manifest

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):
   Waste ID Number:
2. Generator's Name and Mailing Address:
   Short Stop
   Phone ( )
   P O #:
3. Agent of Generator and Mailing Address:
   Kim Env
   Phone ( )
   P O #:
4. Transporter Company Name:
   Phone ( )
   Truck & Trailer License Number: Vacuum Recovery Tech
5. Transporter U.S. EPA ID#:
6. Facility Name and Site Address:
   US Water Recovery
   511 Old Mt. Holly Rd.
   Goose Creek, SC 29445

   Mailing Address:
   US Water Recovery
   511 Old Mt. Holly Rd.
   Goose Creek, SC 29445

   Phone: (843) 797-3111
   Fax: (843) 797-1884
7. Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				190.75

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Mark Keller Signature: Mark Keller Date: 12-7-15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Samuel Holmes Signature: Samuel Holmes Date: 12-7-15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Signature: Date 12-7-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13204

APPENDIX H

Zoning Information

APPENDIX I

Fate and Transport Modeling

APPENDIX J

Access Agreements

APPENDIX K

Checklist

Contractor Checklist

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

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

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

Explanation for missing and incomplete information?

D H E C

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Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MAUREEN JACKSON
WORSLEY COMPANIES INC
PO BOX 3227
WILMINGTON NC 28406-3227

FEB 0 5 2016

UST 37 tech DOCKETING

Re: **Site Specific Work Plan Request**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit #05678
Release reported December 30, 1991
Monitoring Report received December 11, 2015
Laurens County

Dear Ms. Jackson:

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

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 3.0 is necessary following all assessment related activities. All monitoring wells associated with the release should be sampled for BTEX, naphthalene, MtBE, 1,2-DCA, 8-Oxygenates, and EDB. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. Only wells with screens that do not bracket the water table should be purged prior to sampling. A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPPRevision3.0.pdf

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

On all correspondence regarding this site, please reference UST Permit #05678. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper

Adam Looper, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445
Technical File

DHEC
PROMOTE PROTECT PROSPER

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

DOCKETING 38 Tech

UST FEB 16 2016 PROGRAM

To: Adam Looper (SCDHEC Project Manager)
From: Mark Keller, PG (Contractor Project Manager)
Contractor: KLM Environmental UST Contractor Certification Number: 345

Facility Name: Short Stop UST Permit #: 05678
Facility Address: 613 Musgrove Street, Clinton, SC
Responsible Party: Worsley Companies Inc (CENEMA) Phone: 910-343-1991
RP Address: 123 Shipyard Blvd Wilmington, NC 28412
Property Owner (if different): Arthur D Gast III
Property Owner Address: PO Box 556 Lavonia, Ga 30553
Current Use of Property: Gas station

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

- ☐ BTEXN

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

0 Soil	0 Water Supply Wells	0 Air	2 Field Blank
24 Monitoring Wells	0 Surface Water	2 Duplicate	1 Trip Blank

Field Screening Methodology

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

# of shallow points proposed: NA Estimated Footage: NA feet per point
# of deep points proposed: NA Estimated Footage: NA feet per point
Field Screening Methodology: NA

Permanent Monitoring Wells

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

# of shallow wells: NA Estimated Footage: NA feet per point
# of deep wells: NA Estimated Footage: NA feet per point
# of recovery wells: NA Estimated Footage: NA feet per point
Monitoring Well development method (consistent with SOP): NA
Comments, if warranted:
NA

UST Permit #: 05678 Facility Name: Short Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Field Work Completion: 35
Report Submittal: 60 # of Copies Provided to Property Owners: _____

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

Investigation Derived Waste Disposal
Soil: NA Tons Purge Water: 150 Gallons
Drilling Fluids: NA Gallons Free-Phase Product: 0 Gallons

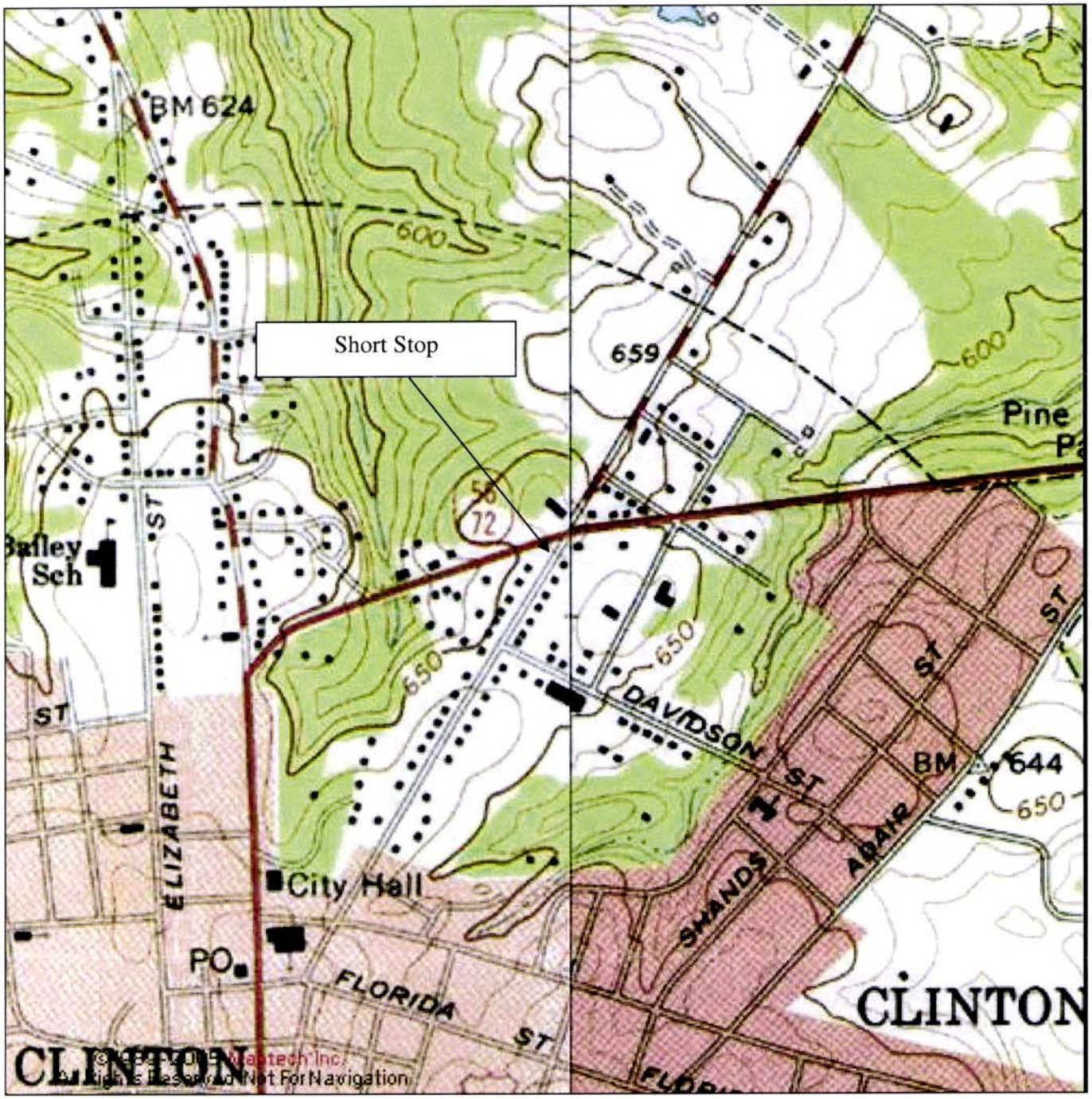
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample all monitoring wells. Purging will be required only on wells that do not bracket the water table..
Two mobilizations for sampling are being proposed per the standards set forth in SCDHEC Solicitation # 5400007403 where a separate personnel mobilization is allowed for every 20 monitoring wells sampled or gauged.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: Pace Laboratory
SCDHEC Certification Number: SC 99006001
Name of Laboratory Director: Jeff Graham

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

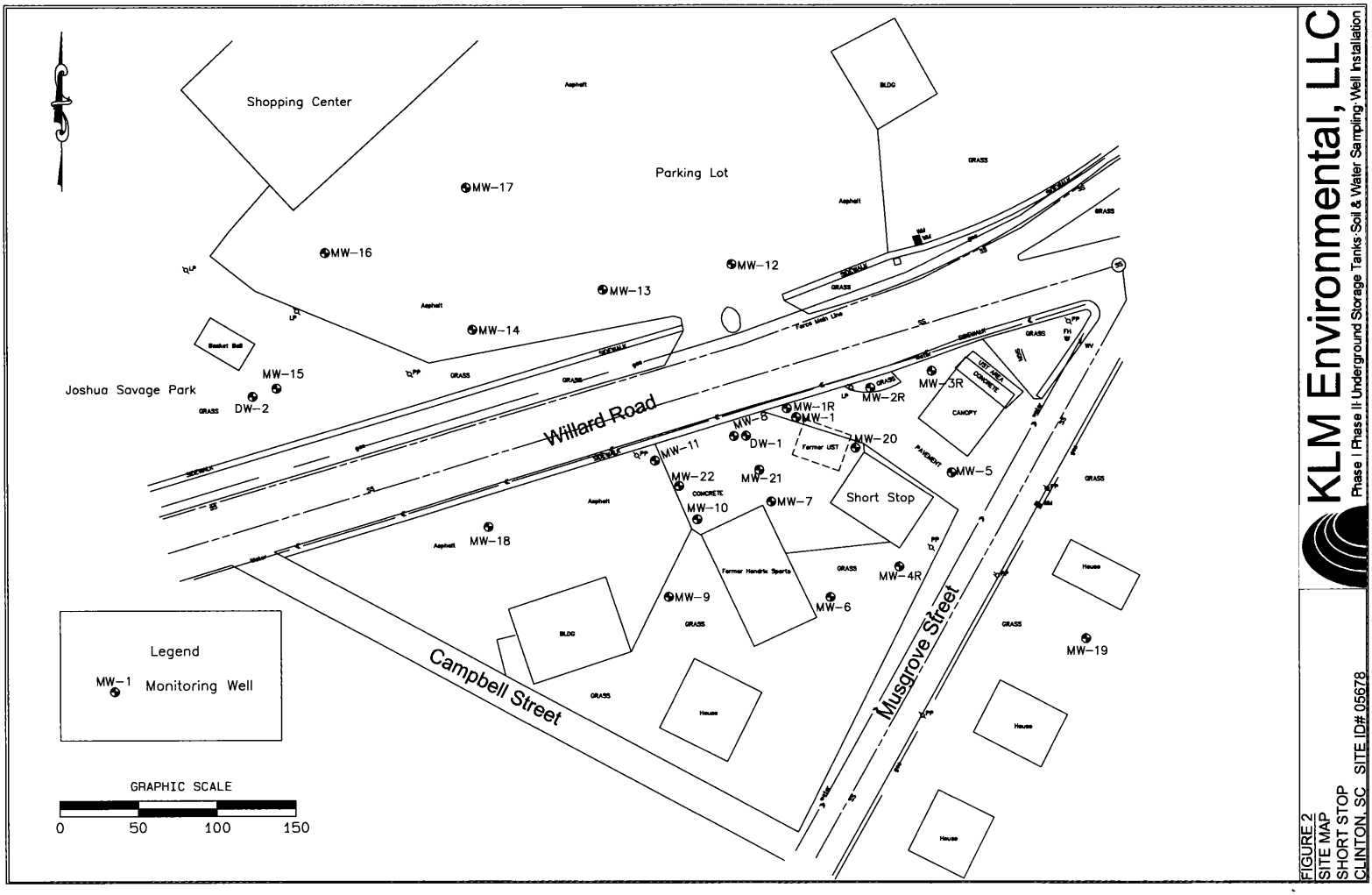
Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

D H E C

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South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

May 15, 2014

Facility Name: Short Stop

UST Permit #: 05678 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel 10,10,17	3	each	$423.00	$1,269.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	2	per well/receptor	$60.00	$120.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater (No Purge or Duplicat	24	per well/receptor	$28.00	$672.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	28	per sample	$122.00		$3,416.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	27	per sample	$45.20		$1,220.40
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	50	gallon	$0.56		$28.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal		ton	$60.00		$0.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$6,900.00		$828.00
TOTAL					$7,728.00

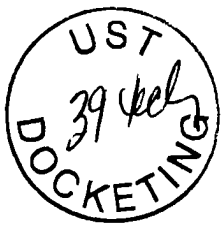
*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment



GRETA STANLEY
CENAMA INC
123 SHIPYARD BLVD
WILMINGTON NC 28412

MAR 1 5 2016

Re: **Groundwater Sampling Directive**
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit #05678; CA #51947
Release reported December 30, 1991
SSWP received February 16, 2016
Laurens County

Dear Ms. Stanley:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by KLM Environmental. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 3.0, and must be conducted in compliance with all applicable regulations. A copy of the Agency's QAPP Rev. 3.0, for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPPRevision3.0.pdf.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #51947** has been approved for the amount shown on the enclosed cost agreement form for a comprehensive groundwater sampling event. Groundwater samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, 8 Oxygenates and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling. Sampling and analyses should be conducted in accordance with Appendix F of the QAPP, Rev. 3.0, and to include duplicate samples, field and trip blanks.

The Monitoring Report and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be

completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note; if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

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

On all correspondence regarding this site, please reference **UST Permit #05678** and **CA #51947**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0631 or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: KLM Environmental, LLC., P.O. Box 2704, Goose Creek, SC 29445 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 51947

Facility 05678 SHORT STOP
LOOPERAM
PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1 0000	$150 000	150 00
04 MOB/DEMOB						
		B1	PERSONNEL	3 0000	$423 000	1,269 00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	2 0000	$60 000	120 00
		D1	GROUNDWATER NO PURGE/DUPLICATE	24 0000	$28 000	672 00
		H1	FIELD BLANK	1 0000	$24 600	24 60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	28 0000	$122 000	3,416 00
		F1	EDB BY 8011	27 0000	$45 200	1,220 40
17 DISPOSAL						
		AA	WASTEWATER	50 0000	$0.560	28.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	$6,900 000	828 00
				Total Amount		7,728 00

RECEIVED
AUG 13 2008
UNDERGROUND STORAGE
TANK PROGRAM

TIER II ASSESSMENT

Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

August 8, 2008

Prepared for:

Ms. Maia Milenkova
Assessment Section
SCDHEC
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*

Project # 05143.1

UST DOCKET

RECEIVED
AUG 13 2008
UNDERGROUND STORAGE
TANK PROGRAM

SIGNATURE PAGE

This report entitled "**TIER II ASSESSMENT" for Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

April Mullinax For:
J. Micah Bennett
Hydrogeologist

Reviewed By:

Mark L. Keller, PG
President

8/8/08
Date

MARK L. KELLER
REGISTERED
No. 2311
8/8/08
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina (Appendix A, Figure 1). Currently there is one 12,000 gasoline UST located at the site in the tank basin. There are three dispensers associated with the tank located at the front of the store beneath the canopy. A release was reported on December 30, 1991 and assessment activities have been going on since that date. A Tier I Assessment was completed by Clark Environmental, Inc. in 1997. KLM Environmental performed a groundwater sampling event on October 31st, 2007. As a result of the sampling event, free product was detected in monitoring well MW-1. This prompted a request from the SCDHEC for further assessment to determine the extent of the release. This Assessment Report serves to define the horizontal and vertical extent of the contamination at the Short Stop site.

1.1 Receptor Survey

A receptor survey was completed as a part of this Tier II Assessment. The receptor identified is a stream located approximately 650 ft down gradient to the west.

TABLE 1
Receptor Survey
Scotchman #48
Little River, SC

		NO	YES
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicated type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, receptor indicated on site map.	X	
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system? If yes, receptor indicated on site map	X	
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? If yes, receptor indicated on site map	X	
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?	X	

2.0 ASSESSMENT INFORMATION

2.1 Piezometric Data

Figure 2 in Appendix A serves as the comprehensive site map showing the locations of the eighteen monitoring wells located at the Short Stop site. Monitoring well MW-1 was installed as part of the Initial Ground Water Assessment (IGWA). Monitoring wells MW-2 through MW-4 were missing and presumed destroyed, these wells were replaced during this well installation event. Monitoring wells MW-2R, MW-3R, MW-4R, and MW-5 through MW-17 were installed on July 15th, 2008 as part of this assessment. The casings for the deep monitoring well DW-1 was set at 45 feet and the well was completed on July 15th, 2008. The deep well was installed to a depth of 63 feet where rock was encountered. The well logs for the recent well installation event, along with field boring logs are provided in Appendix B. Piezometric data for all monitoring wells associated with the release at the Short Stop can be found in Table 2. A piezometric map was created utilizing the data obtained during surveying activities, which were performed by Construction Support Services on August 6th, 2008. A piezometric map is included in Appendix A as Figure 3.

TABLE 2
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
MW-2R	7/21/08	105.11	20 - 40	-	30.73	74.38
MW-3R	7/21/08	105.67	20 - 40	-	30.74	74.93
MW-4R	7/21/08	104.44	20 - 40	-	30.20	74.24
MW-5	7/21/08	105.62	20 - 40	-	30.89	74.73
MW-6	7/21/08	103.87	20 - 40	-	29.70	74.17
MW-7	7/21/08	102.55	20 - 40	-	28.63	73.92
MW-8	7/21/08	101.82	20 - 40	-	27.81	74.01
MW-9	7/21/08	102.03	20 - 40	-	28.46	73.57
MW-10	7/21/08	102.30	20 - 40	-	28.65	73.65
MW-11	7/21/08	100.45	20 - 40	-	26.70	73.75
MW-12	7/21/08	102.40	20 - 40	-	28.22	74.18
MW-13	7/21/08	101.91	20 - 40	-	28.20	73.71
MW-14	7/21/08	101.77	20 - 40	-	28.62	73.15
MW-15	7/21/08	94.60	11 - 31	-	22.54	72.06
MW-16	7/21/08	101.26	19 - 39	-	28.69	72.57
MW-17	7/21/08	101.69	20 - 40	-	28.42	73.27
DW-1	7/21/08	102.23	58 - 63	-	28.30	73.93

*** Telescoping wells not used to construct the shallow piezometric map**

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements. Free product was measured at 0.21 ft in monitoring well MW-1.

2.2 Vertical and Horizontal Plume Delineation

Horizontal delineation of the contaminant plume was accomplished with the use of a drill rig on March 20th, 2008, April 25th, 2008, and June 10th, 2008. All samples collected were submitted to Pace Analytical Services for analysis. The boring locations and field screening laboratory results are identified on Figure 4 in Appendix A and the field screening laboratory results are provided in Table 3 and in Appendix C. A map depicting the contaminant plume based on the delineation analytical data is provided as Figure 5.

TABLE 3
Delineation Analytical Data
Short Stop
Clinton, SC

Sample ID	Matrix	Depth (ft)	Benzene (5)	Toluene (1000)	Ethylbenzene (700)	Xylenes (10000)	MTBE (40)	Naphthalene (25)
GP-1	GW	40	**251**	<10.0	<10.0	163	<10.0	<10.0
GP-2	GW	40	**208**	<25.0	13.2	191	11.3	<25.0
GP-3	GW	40	**3350**	19	98.3	1190	**1150**	**44.1**
GP-4	SL	40	**25.1**	<3.9	<3.9	<7.7	<3.9	<3.9
GP-5	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
GP-6	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-7	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-8	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-9	GW	40	**286**	<5.0	<5.0	38.5	**130**	5.6
S-10	GW	40	**335**	<5.0	<5.0	36.6	**113**	5.9
S-11	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-12	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-13	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-14	GW	40	**19.3**	<5.0	<5.0	4.9	6.4	9.7
S-15	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0
S-16	GW	40	<25.0	<25.0	<25.0	<75.0	<25.0	**33.5**
S-17	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0
S-18	GW	40	<5.0	<5.0	<5.0	<15.0	3.1	<5.0

Permanent monitoring wells were sampled on July 21st, 2008 and these samples were submitted to Pace Analytical Services (SCDHEC Certification # 99006). Field sampling sheets from this sampling event noting time date and purge data are provided in Appendix D. Analytical results are provided in Tables 4 through 6 and in Appendix C. A map is provided as Figure 6 in Appendix A showing the sample results along with the well locations. Figure 7 depicts the extent of the contaminant plume based on the well sampling results. Figures 8 through 10 provide a detailed cross section of the site based on information obtained during the well installation activities.

A disposal manifest for contaminated soil and groundwater generated during the assessment is provided in Appendix E. Seventeen drums of contaminated soil and 2 drums of groundwater were generated during drilling and sampling activities. Results for all wells sampled are as follows:

TABLE 4
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02

Note: All results in µg/l. Numbers in bold exceed RBSL. NS = Not Sampled for that parameter.
FP = Free Product

TABLE 5
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	Ethanol	(ETBE)	(DIPE)	(ETBA)	(TBA)	(TAME)	(TAA)	(TBF)
MW-1	7/21/08	FP	FP	FP	FP	FP	FP	FP	FP
MW-2R	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-3R	7/21/08	<10000	<500	<250	<5000	<5000	<500	<5000	<2500
MW-4R	7/21/08	<200	<10.0	<5.0	<100	35.9	<10.0	<100	<50.0
MW-5	7/21/08	<1000	<50.0	<25.0	<500	<500	<50.0	<500	<250
MW-6	7/21/08	<200	<10.0	<5.0	<100	30.6	<10.0	<100	<50.0
MW-7	7/21/08	<1000	<50.0	<25.0	<500	300	<50.0	2200	<250
MW-8	7/21/08	<2000	<100	<50.0	<1000	1280	<100	7790	<500
MW-9	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-10	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	107	<50.0
MW-11	7/21/08	<200	<10.0	<5.0	<100	154	<10.0	965	<50.0
MW-12	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-13	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-14	7/21/08	<200	<10.0	<5.0	<100	82.1	<10.0	458	<50.0
MW-15	7/21/08	205	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-16	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-17	7/21/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
DW-1	7/21/08	<200	<10.0	<5.0	<100	195	<10.0	1240	<50.0

Note: All results in µg/l. FP = Free Product

TABLE 6
Summary of Auxiliary Data
Short Stop
Clinton, SC

Well #	Date Sampled	Methane ug/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	1,2 DCA ug/l	PAH's
**	--	--	--	--	--	5	
MW-1	7/21/08	FP	FP	FP	FP	FP	FP
MW-2R	7/21/08	NS	<0.50	0.18	<4.0	<5.0	NS
MW-3R	7/21/08	NS	<0.50	3.2	<4.0	**<50.0**	NS
MW-4R	7/21/08	NS	<0.50	<0.10	<4.0	<5.0	NS
MW-5	7/21/08	NS	<0.50	0.46	<4.0	**<25.0**	NS
MW-6	7/21/08	NS	<0.50	<0.10	<4.0	<5.0	NS
MW-7	7/21/08	NS	<0.50	<0.10	<4.0	**<25.0**	NS
MW-8	7/21/08	NS	<0.50	0.37	<4.0	**<50.0**	NS
MW-9	7/21/08	NS	<0.50	0.25	<4.0	<5.0	NS
MW-10	7/21/08	NS	<0.50	<0.10	<4.0	<5.0	NS
MW-11	7/21/08	NS	<0.50	<0.10	<4.0	<5.0	NS
MW-12	7/21/08	NS	<0.50	<0.10	<4.0	<5.0	NS
MW-13	7/21/08	NS	<0.50	0.19	<4.0	<5.0	NS
MW-14	7/21/08	NS	<0.50	0.21	5.3	1.7	NS
MW-15	7/21/08	NS	<0.50	0.15	8.0	<5.0	NS
MW-16	7/21/08	NS	<0.50	0.14	<4.0	<5.0	NS
MW-17	7/21/08	NS	<0.50	0.74	5.4	<5.0	NS
DW-1	7/21/08	NS	<0.50	0.40	4.2	2.6	NS

Note: NS = Not Sampled for that parameter. FP = Free Product

3.0 CONCLUSIONS

Results from the contamination delineation indicate contaminants exist at the Short Stop in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Free product is present in MW-1 and the deep well has contaminant levels above RBSL's. Delineation of the contaminant plume could not be completed to the west past MW-11 because property access could not be obtained. Delineation of the contaminant plume has not been completed to the east, west, and north in certain areas. Refer to Figure 7 for further information. Benzene, MTBE, Lead, and MTBE is present in a number of monitoring wells at the site above RBSLs and are the prevalent chemicals of concern.

Based on the results of the latest sampling event, KLM recommends a series of aggressive fluid recovery events to attempt to remove the free product from MW-1. Additional delineation is warranted to the east, west and north to define the contaminant. A comprehensive sampling event should be performed following the delineation and AFVR events to determine the contaminant levels at the site.

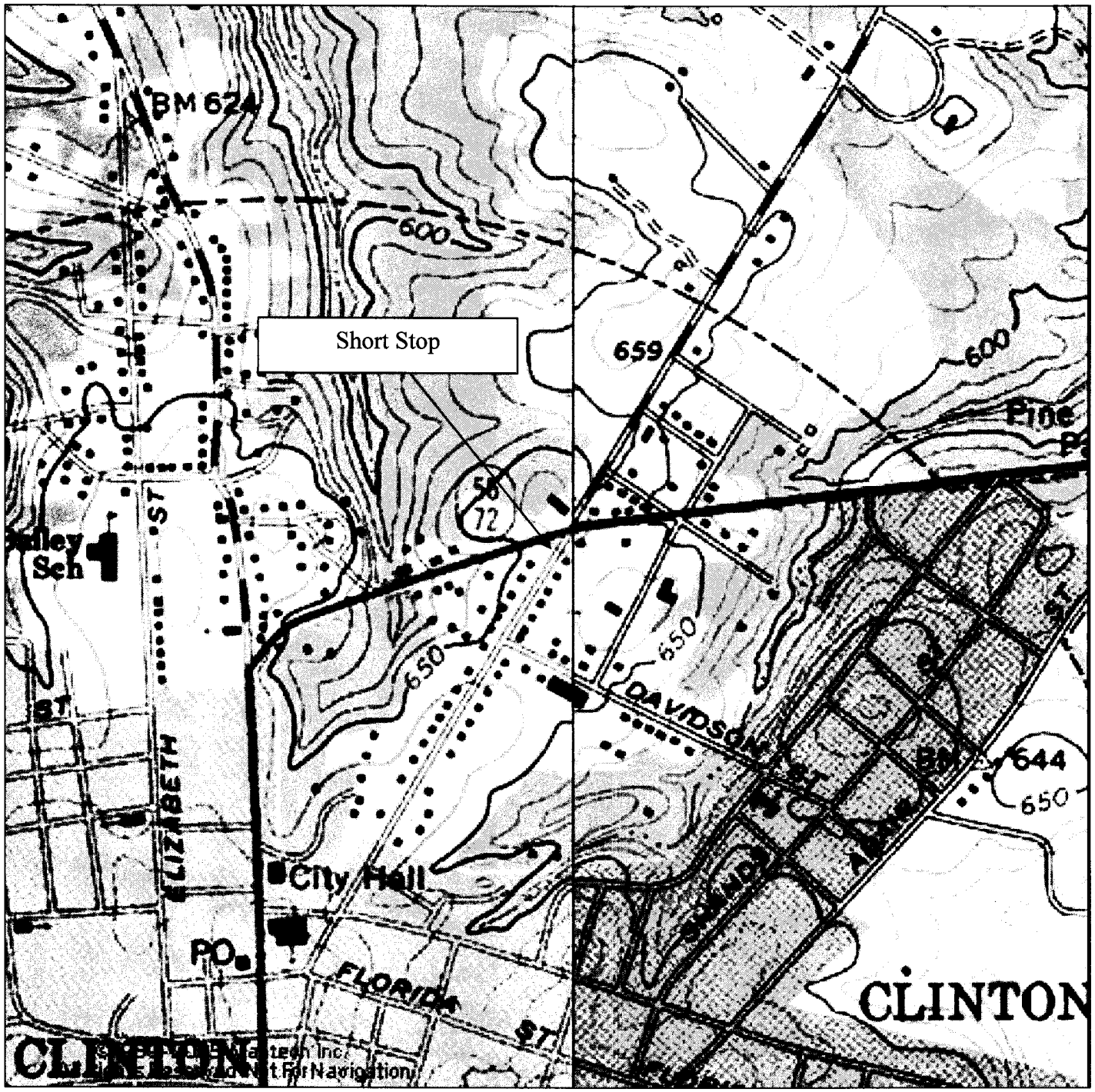
4.0 REFERENCES

KLM Environmental, LLC, *Gauging Event*, November, 2007.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *Underground Storage Tank Registry Website www.scdhec.gov/ust/scustr/index.asp*

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *Tier II Assessment*, May 15, 2000.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Risk-Based Corrective Action for Petroleum Releases*, May 15, 2001.



KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143.1

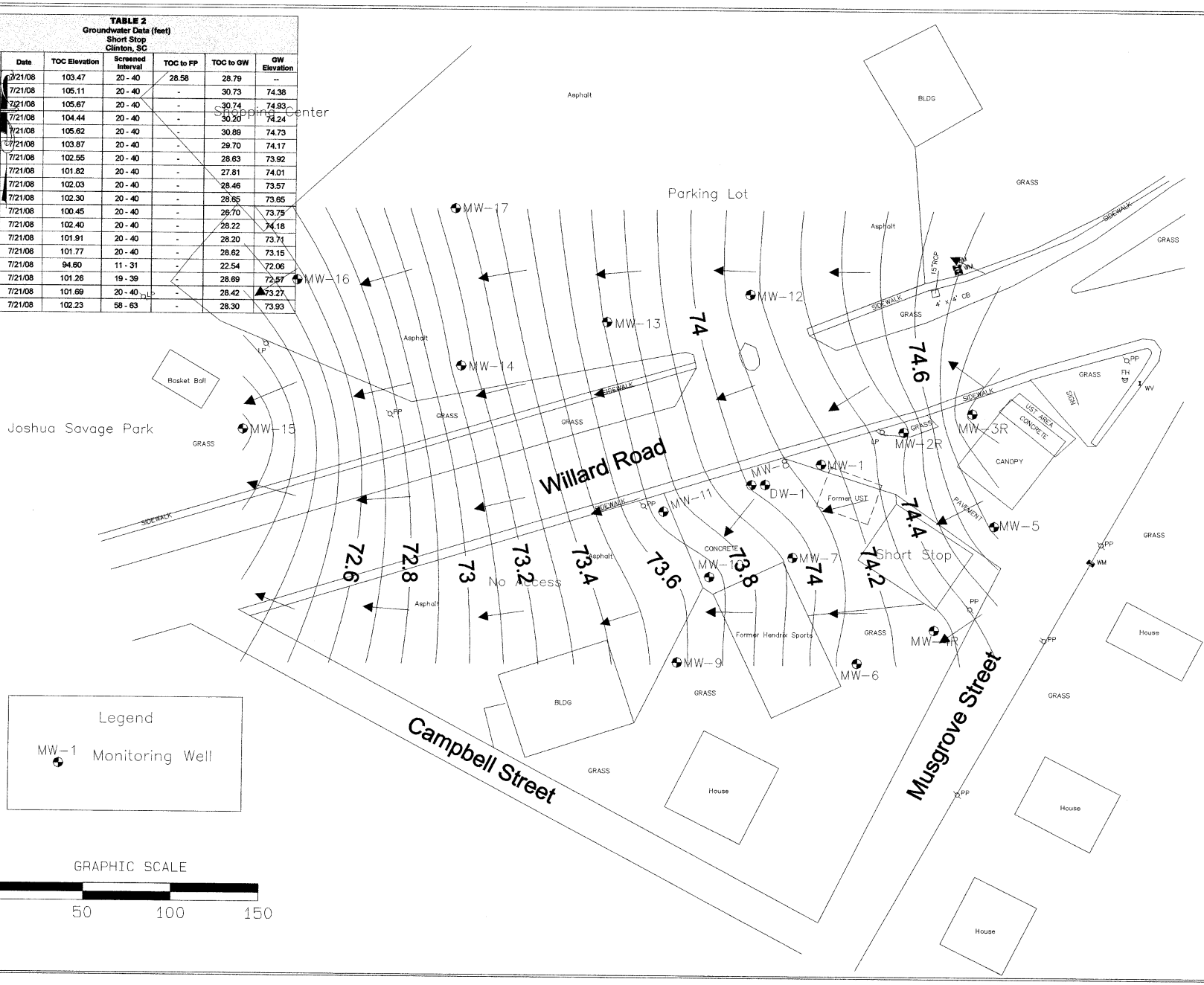
FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC

Phase I· Phase II· Underground Storage Tanks· Soil & Water Sampling· Well Installation

TABLE 2
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
MW-2R	7/21/08	105.11	20 - 40	-	30.73	74.38
MW-3R	7/21/08	105.67	20 - 40	-	30.74	74.93
MW-4R	7/21/08	104.44	20 - 40	-	30.20	74.24
MW-5	7/21/08	105.62	20 - 40	-	30.89	74.73
MW-6	7/21/08	103.87	20 - 40	-	29.70	74.17
MW-7	7/21/08	102.55	20 - 40	-	28.63	73.92
MW-8	7/21/08	101.82	20 - 40	-	27.81	74.01
MW-9	7/21/08	102.03	20 - 40	-	28.46	73.57
MW-10	7/21/08	102.30	20 - 40	-	28.65	73.65
MW-11	7/21/08	100.45	20 - 40	-	26.70	73.75
MW-12	7/21/08	102.40	20 - 40	-	28.22	74.18
MW-13	7/21/08	101.91	20 - 40	-	28.20	73.71
MW-14	7/21/08	101.77	20 - 40	-	28.62	73.15
MW-15	7/21/08	94.60	11 - 31	-	22.54	72.06
MW-16	7/21/08	101.26	19 - 39	-	28.69	72.57
MW-17	7/21/08	101.69	20 - 40	-	28.42	73.27
DW-1	7/21/08	102.23	58 - 63	-	28.30	73.93



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Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 3
Delineation Analytical Data
Short Stop
Clinton, SC

Sample ID	Matrix	Depth (ft)	Benzene (5)	Toluene (1000)	Ethylbenzene (700)	Xylenes (10000)	MTBE (40)	Naphthalene (25)
GP-1	GW	40	**251**	<10.0	<10.0	163	<10.0	<10.0
GP-2	GW	40	**208**	<25.0	13.2	191	11.3	<25.0
GP-3	GW	40	**3350**	19	98.3	1190	**1150**	**44.1**
GP-4	SL	40	**25.1**	<3.9	<3.9	<7.7	<3.9	<3.9
GP-5	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
GP-6	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-7	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-8	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-9	GW	40	**286**	<5.0	<5.0	38.5	**130**	5.6
S-10	GW	40	**335**	<5.0	<5.0	36.6	**113**	5.9
S-11	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-12	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-13	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-14	GW	40	**19.3**	<5.0	<5.0	4.9	6.4	9.7
S-15	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0
S-16	GW	40	<25.0	<25.0	<25.0	<75.0	<25.0	33.5
S-17	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0
S-18	GW	40	<5.0	<5.0	<5.0	<15.0	3.1	<5.0

Shopping Center
Asphalt
Parking Lot
MW-17
S-15
S-16
S-17
MW-16
S-18
S-7
S-8
MW-12
MW-13
S-10
S-9
S-14
MW-14
Basket Ball
Joshua Savage Park
MW-15
GRASS
SIDEWALK
Willard Road
MW-3R
MW-2R
UST MEA
CONCRETE
CANOPY
MW-8
MW-1
GP-3
DW-1
Former UST
GP-4
MW-11
PAVEMENT
MW-5
GP-2
GP-5
CONCRETE
MW-7
Short Stop
MW-10
GP-1
No Access
GP-6
S-11
Former Hendrix Sports
MW-4R
MW-9
S-13
MW-6
BLDG
S-12
Campbell Street
Musgrove Street
House

Legend

MW-1 Monitoring Well
GP-1 Field Screening Location
S-1 Field Screening Location

GRAPHIC SCALE

0 50 100 150

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Phase I- Phase II- Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 4
GEOPROBE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

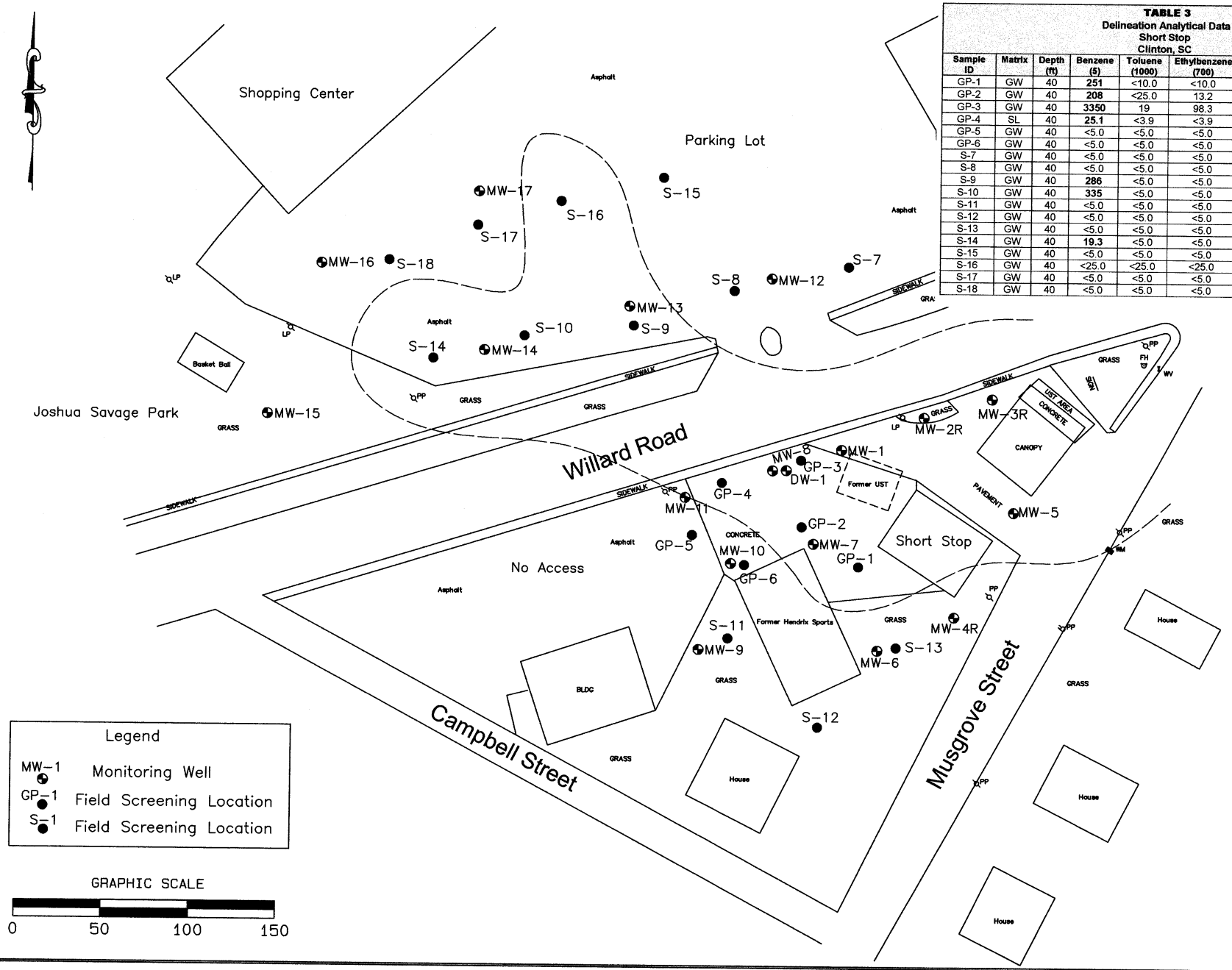

TABLE 3
Delineation Analytical Data
Short Stop
Clinton, SC

Sample ID	Matrix	Depth (ft)	Benzene (5)	Toluene (1000)	Ethylbenzene (700)	Xylenes (10000)	MTBE (40)	Naphthalene (25)
GP-1	GW	40	**251**	<10.0	<10.0	163	<10.0	<10.0
GP-2	GW	40	**208**	<25.0	13.2	191	11.3	<25.0
GP-3	GW	40	**3350**	19	98.3	1190	**1150**	**44.1**
GP-4	SL	40	**25.1**	<3.9	<3.9	<7.7	<3.9	<3.9
GP-5	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
GP-6	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-7	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-8	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-9	GW	40	**286**	<5.0	<5.0	38.5	**130**	5.6
S-10	GW	40	**335**	<5.0	<5.0	36.6	**113**	5.9
S-11	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-12	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-13	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-14	GW	40	**19.3**	<5.0	<5.0	4.9	6.4	9.7
S-15	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0
S-16	GW	40	<25.0	<25.0	<25.0	<75.0	<25.0	33.5
S-17	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0
S-18	GW	40	<5.0	<5.0	<5.0	<15.0	3.1	<5.0

KLM Environmental, LLC

Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 5
GEOPROBE DELINEATION MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

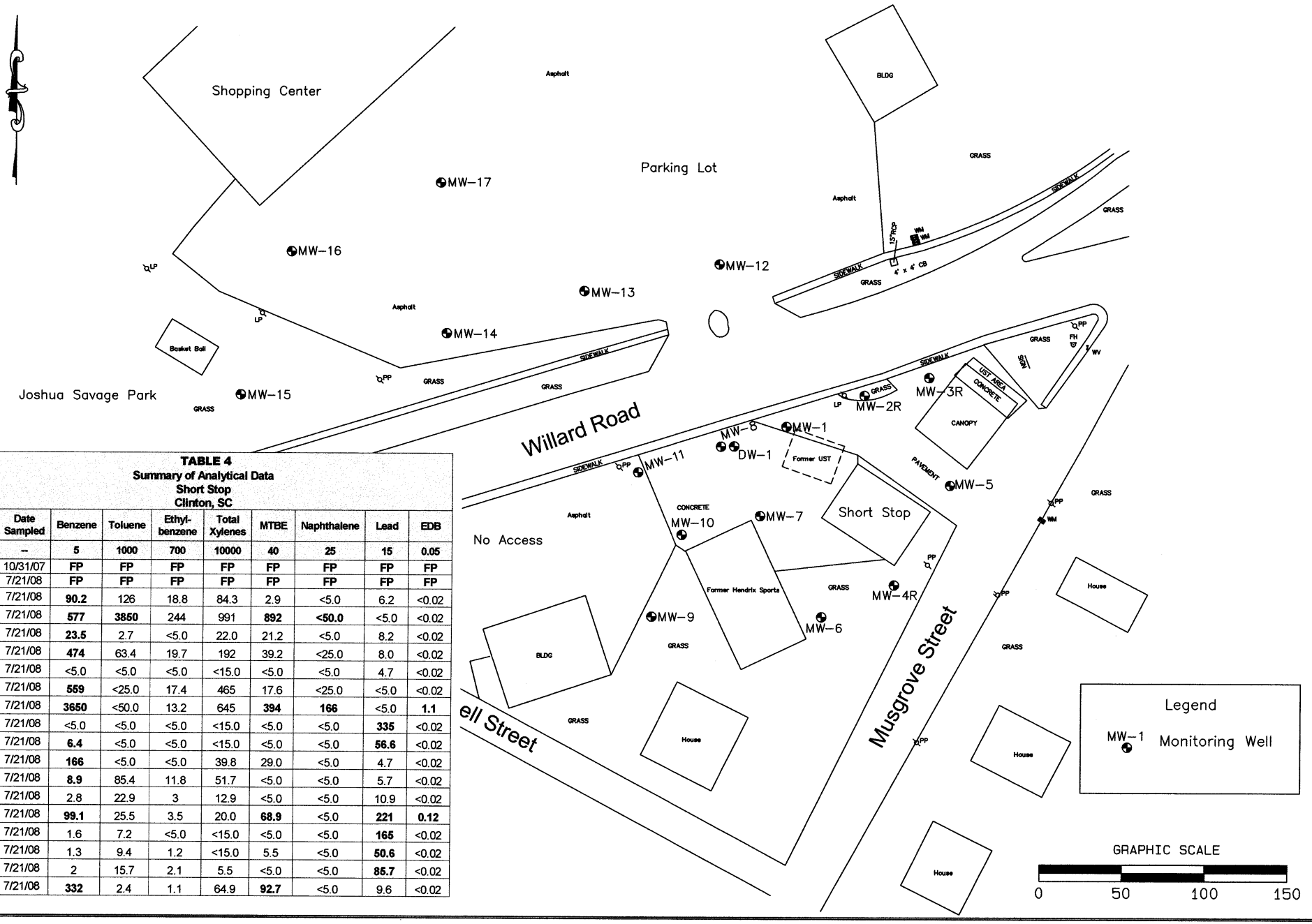

TABLE 4
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02

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Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 6
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

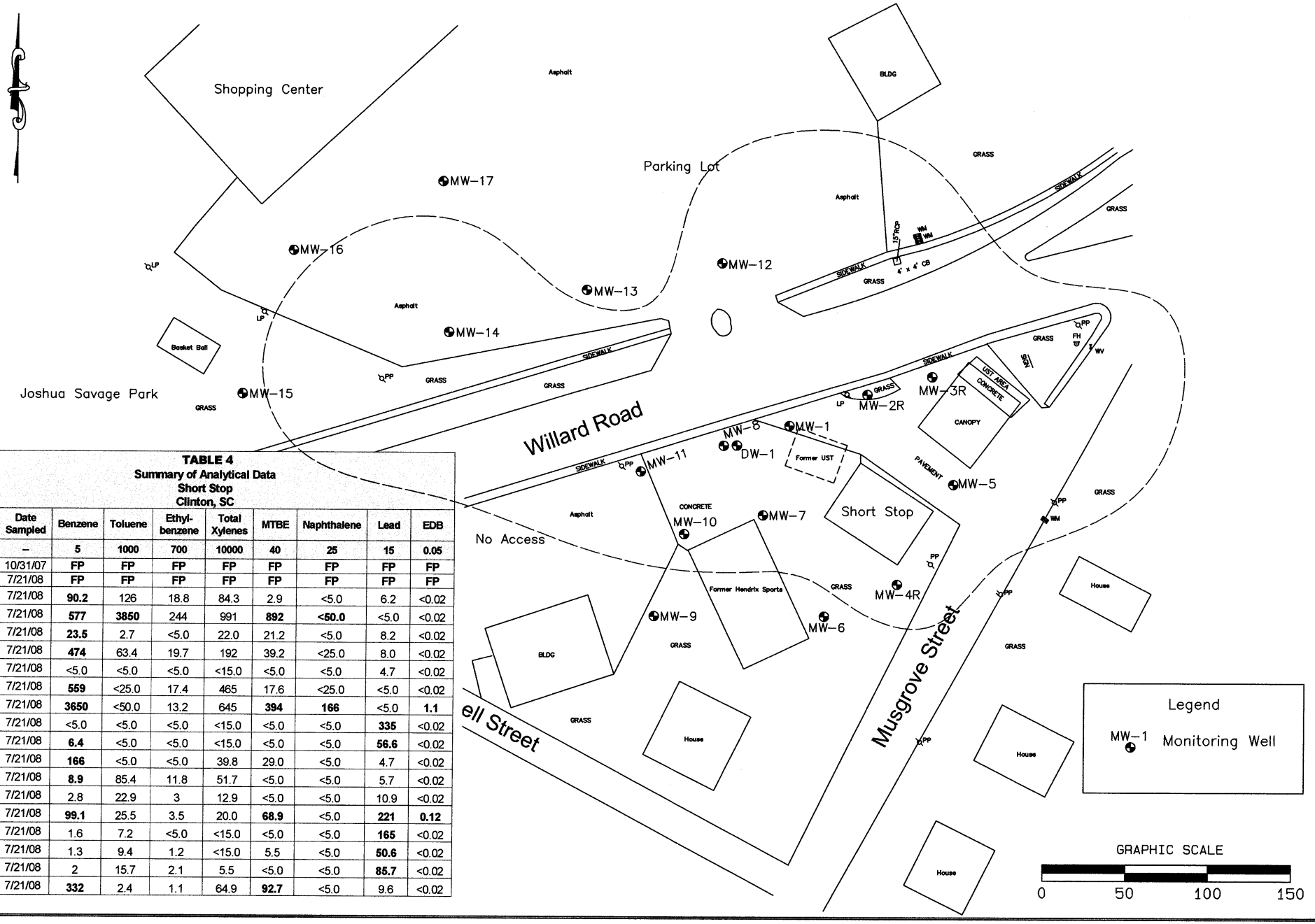

TABLE 4
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	–	5	1000	700	10000	40	25	15	0.05
MW-1	10/31/07	FP	FP	FP	FP	FP	FP	FP	FP
	7/21/08	FP	FP	FP	FP	FP	FP	FP	FP
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02

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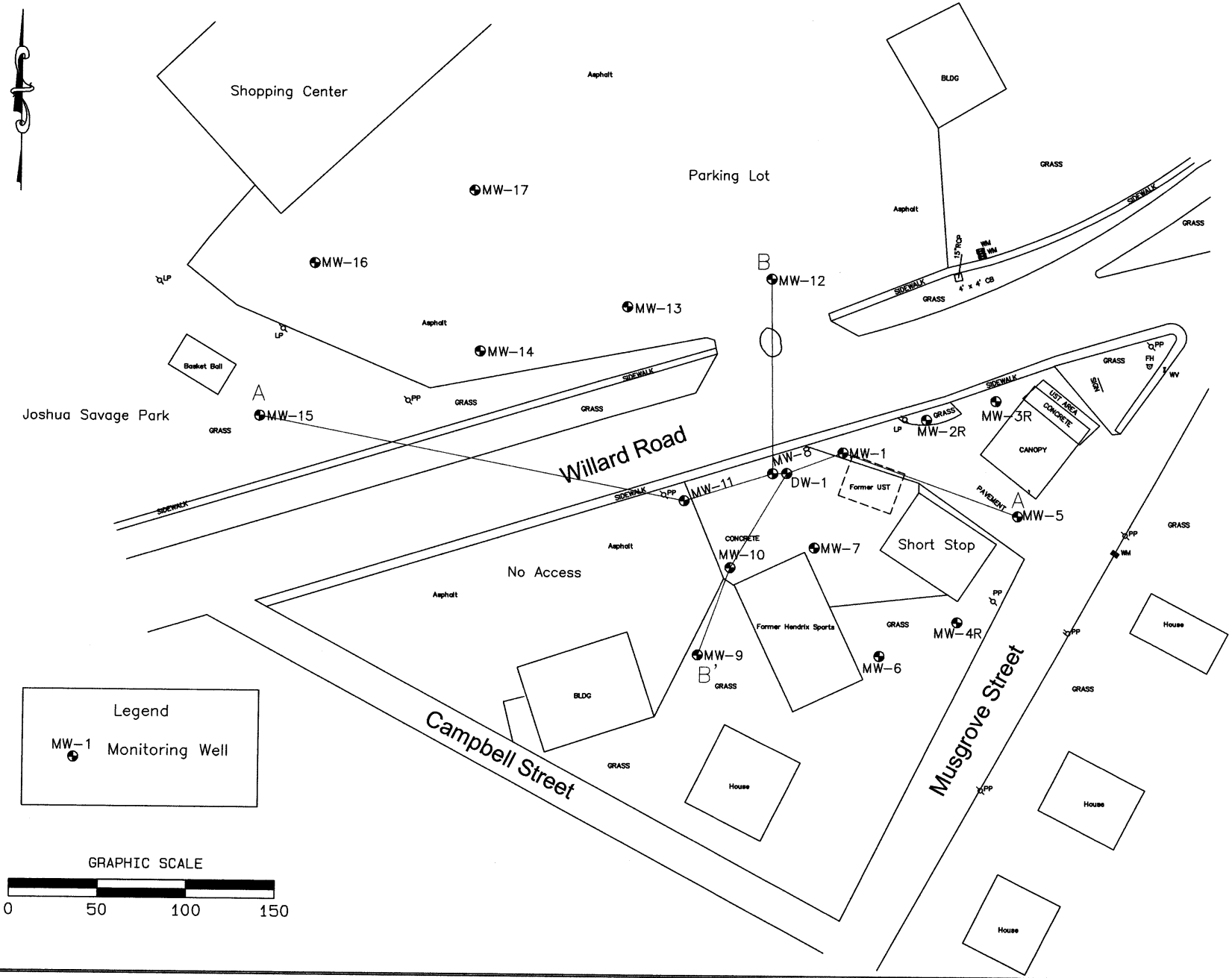
Phase I: Phase II: Underground Storage Tanks Soil & Water Sampling: Well Installation

FIGURE 7
WELL DELINEATION MAP
SHORT STOP
CLINTON, SC SITE ID# 05678



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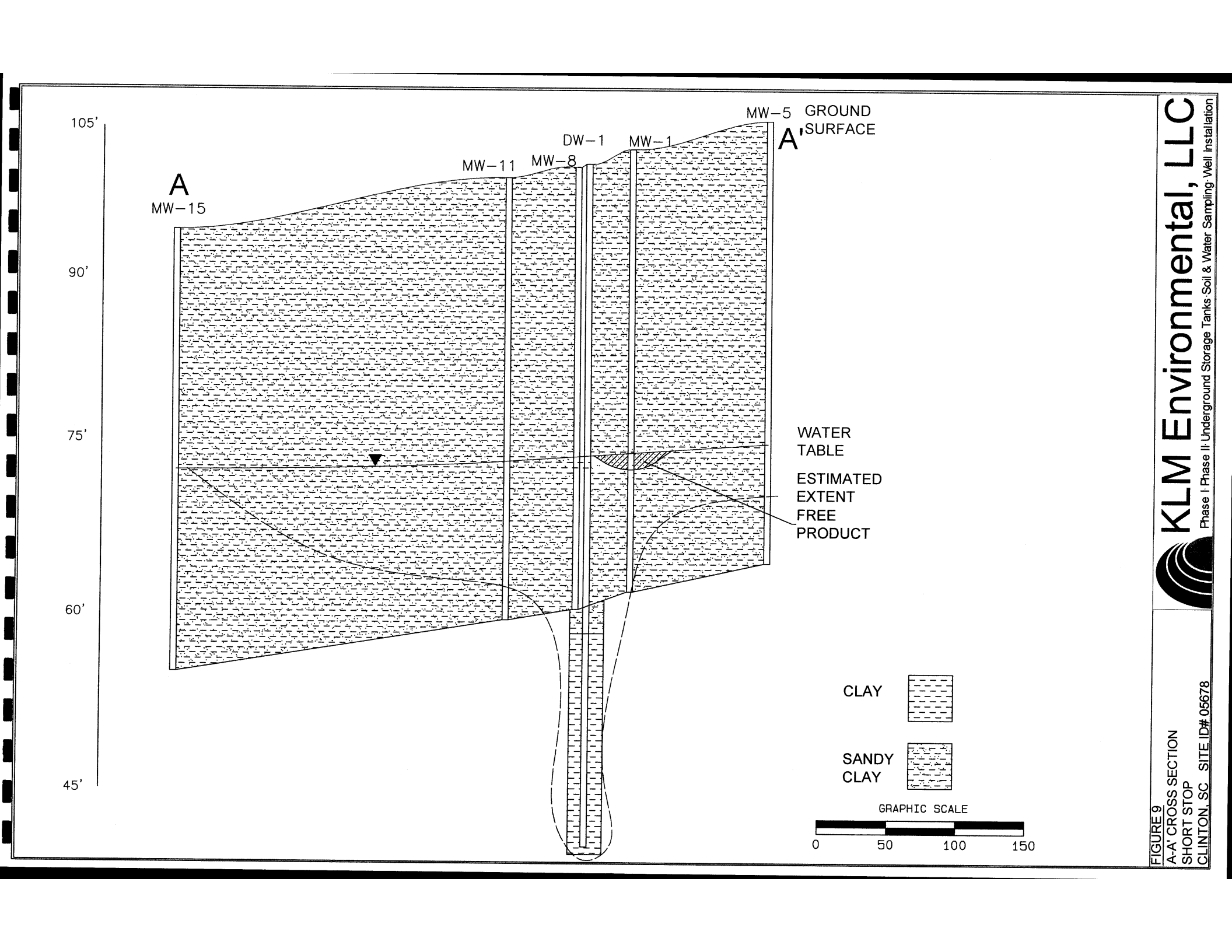
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 8
CROSS SECTION MAP
SHORT STOP
CLINTON, SC SITE ID# 05678



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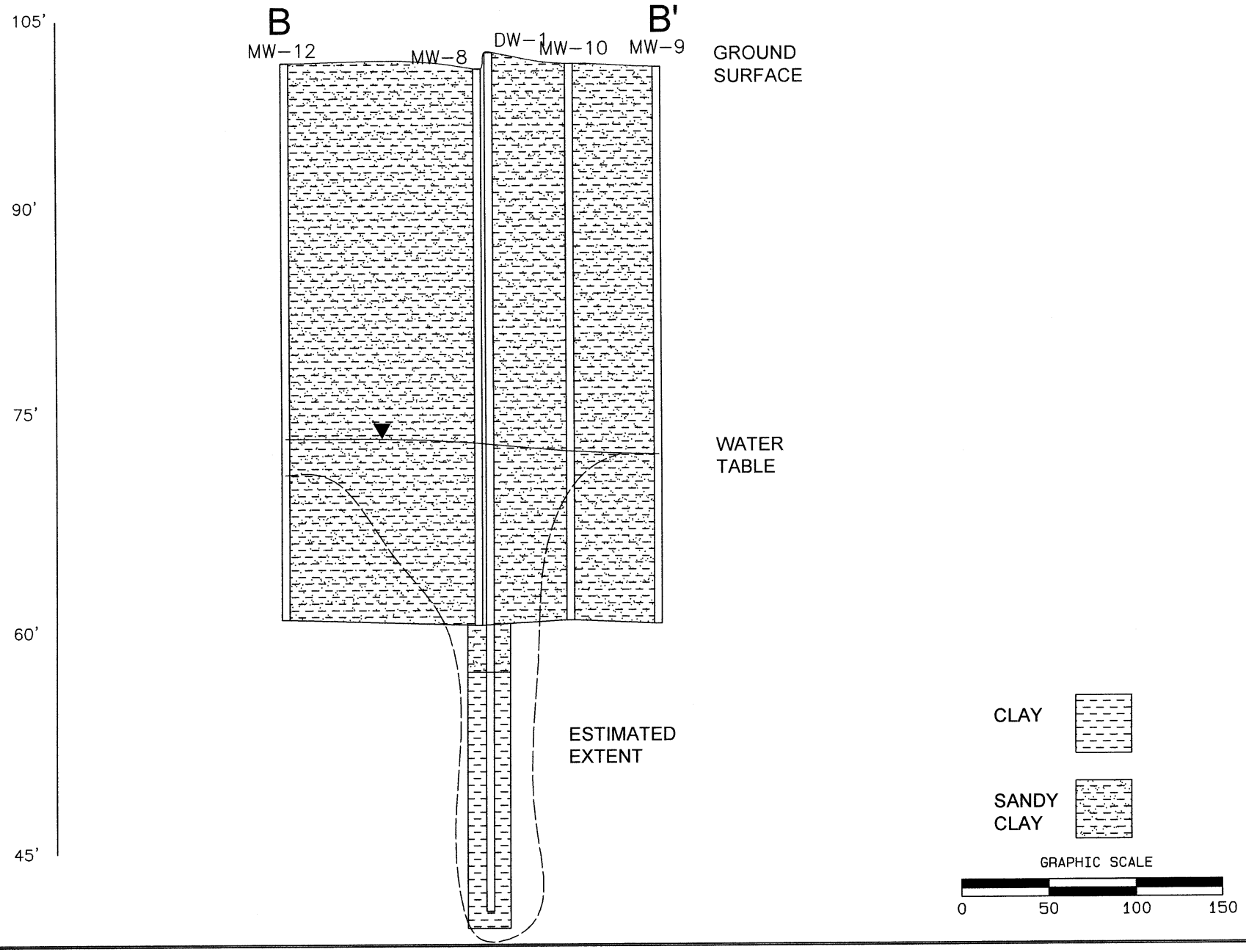
Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

FIGURE 9
A-A' CROSS SECTION
SHORT STOP
CLINTON, SC SITE ID# 05678



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 10
B-B' CROSS SECTION
SHORT STOP
CLINTON, SC SITE ID# 05678

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: **MW-2R**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
_____ in. to _____ ft, depth
Height Above ☐ Below ☐ Surface _____ ft
Weight _____ lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P._____ volts_____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: _____ Well Driller Date: **7/16/2008**
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

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Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-3R**

4. ABANDONMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
40 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
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Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

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Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: **MW- 4R**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	**40**	**40**
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
_____ in. to _____ ft, depth
Height Above ☐ Below ☐ Surface _____ ft
Weight _____ lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P._____ volts_____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

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Signed: _____ Well Driller Date: **7/16/2008**
If D Level Driller, provide supervising driller's name:

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South Carolina Department of Health and Environmental Control

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Bureau of Water
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Name: **Worsley Companies, Inc.** (last) (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: **MW- 5**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	**40**	**40**
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
_____ in. to _____ ft. depth
Height Above ☐ Below ☐ Surface _____ ft
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P._____ volts_____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
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If D Level Driller, provide supervising driller's name:

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City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: **MW-6**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
_____ in. to _____ ft, depth
Height Above ☐ Below ☐ Surface _____ ft
Weight _____ lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P._____ volts_____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

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Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-7**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
40 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft. depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

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Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-8**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	**40**	**40**
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** lt.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: **7/16/2008**
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-9**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
40 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

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Signed: Well Driller Date: **7/16/2008**
If D Level Driller, provide supervising driller's name:

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DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-10**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	**40**	**40**
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
40 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** lt.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

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

Signed: Well Driller Date: **7/16/2008**

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

DHEC
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South Carolina Department of Health and Environmental Control

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

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) _____ (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: **MW-** ||

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
_____ in. to _____ ft. depth
Height Above ☐ Below ☐ Surface _____ ft
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P. _____ volts _____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

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DHEC
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Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-** 12

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
40 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

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

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Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-13**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
in. to ft. depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

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

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DHEC
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South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: PO Box 3227
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW- 14

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	40	40
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-21367

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) 40 ft. Date Started: 7/15/2008 Date Completed: 7/16/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 20 ft. depth
in. to ft, depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20.0
Set Between: 20.0 ft. and 40.0 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL approx. 35'bls at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18.0 ft. to 40.0 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 7/16/2008
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW- 15**

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	**31**	**31**
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
31 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **21** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **10.0**
Set Between: **21.0** ft. and **31.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 25'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **19.0** ft. to **31.0** lt.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

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

Signed: Well Driller Date: **7/16/2008**

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

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: **MW-** 10

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	39	39
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: **7/15/2008**
39 ft. Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **19** ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **19.0** ft. and **39.0** ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **17.0** ft. to **39.0** ft.
Effective size **#2** Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From **0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: **7/16/2008**
If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **Worsley Companies, Inc.** (last) _____ (first)
Address: **PO Box 3227**
City: **Wilmington** State: **NC** Zip: **28406**
Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: **Laurens**
Name: **Short Stop**
Street Address: **613 Musgrove Street**
City: **Clinton** State: **SC** Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: **MW-** 17

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	**40**	**40**
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: **UMW-21367**

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) **40** ft. Date Started: **7/15/2008** Date Completed: **7/16/2008**

10. CASING: ☒ Threaded ☐ Welded
Diam.: **2"**
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to **20** ft. depth
_____ in. to _____ ft. depth
Height Above ☐ Below ☐
Surface _____ ft
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: **PVC** Diam.: **2"**
Slot/Gauge: **0.010** Length: **20.0**
Set Between: **20.0** ft. and **40.0** ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL **approx. 35'bls at TOD** ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from **18.0** ft. to **40.0** ft.
Effective size **#2** Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From **0.0** ft. to **15.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P._____ volts_____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: **Jim A. Peurifoy** CERT. NO.: **835**
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: **843.908.5050** Fax No.: **843.538.4017**

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: _____ Well Driller Date: **7/16/2008**
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: PO Box 3227
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: DW-1

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See detailed geologist log for lithology	63	63
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-21367

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) 63 ft. Date Started: 7/15/2008 Date Completed: 7/16/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 4"; 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
4 in. to 45 ft. depth
2 in. to 58 ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 5.0
Set Between: 58 ft. and 63 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL approx. 40'bls at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 56 ft. to 63 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 50.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 7/16/2008
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

CYPRESS BAY℠ GEOLOGICAL
262 Geology Lane
Walterboro, South Carolina 29488
email: jpeurifoy@cypressbay.com
www.cypressbay.com
Office: 843.538.4017
Fax: 866.466.5658
Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-2R
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Grass / topsoil		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

CYPRESS BAY[SM] GEOLOGICAL
262 Geology Lane
Walterboro, South Carolina 29488
email: jpeurifoy@cypressbay.com
www.cypressbay.com
Office: 843.538.4017
Fax: 866.466.5658
Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-3R
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-4R
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Grass / topsoil		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-5
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-6
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Grass / topsoil		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-7
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Crush N Run		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Fax: 866.466.5658
Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-8
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Crush N Run		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-9
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Grass / topsoil		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-10
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Grass / topsoil		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-11
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Crush N Run		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-12
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Fax: 866.466.5658
Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-13
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

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www.cypressbay.com
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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-14
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

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FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-15
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 23 ft	Tanish orange sandy clay		
23 - 31 ft	Moist tanish orange sandy clay		Terminated top of rock 31 ft.

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FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-16
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 39 ft	Moist tanish orange sandy clay		Terminated top of rock 39 ft.

Form BL-1v1/2006

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FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-17
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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FIELD BORING LOG

Site:	Short Stop			Boring Number:	DW-1
Client:	Worsley			Date:	7/15/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peorifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Crush N Run		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 45 ft	Moist tanish orange sandy clay		
45 - 63 ft	Moist tan clay		Terminated top of rock at 63 ft.

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(704)875-9092

August 04, 2008

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT SHOP
Pace Project No.: 9223805

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2008. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHORT SHOP
Pace Project No.: 9223805

Charlotte Certification IDs
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: SHORT SHOP
Pace Project No.: 9223805

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9223805001	MW-2R	Water	07/21/08 12:00	07/22/08 10:30
9223805002	MW-3R	Water	07/21/08 11:50	07/22/08 10:30
9223805003	MW-4R	Water	07/21/08 11:30	07/22/08 10:30
9223805004	MW-5	Water	07/21/08 11:40	07/22/08 10:30
9223805005	MW-6	Water	07/21/08 11:20	07/22/08 10:30
9223805006	MW-7	Water	07/21/08 11:10	07/22/08 10:30
9223805007	MW-8	Water	07/21/08 10:30	07/22/08 10:30
9223805008	MW-9	Water	07/21/08 10:50	07/22/08 10:30
9223805009	MW-10	Water	07/21/08 11:00	07/22/08 10:30
9223805010	MW-11	Water	07/21/08 10:40	07/22/08 10:30
9223805011	MW-12	Water	07/21/08 12:10	07/22/08 10:30
9223805012	MW-13	Water	07/21/08 12:20	07/22/08 10:30
9223805013	MW-14	Water	07/21/08 12:30	07/22/08 10:30
9223805014	MW-15	Water	07/21/08 12:40	07/22/08 10:30
9223805015	MW-16	Water	07/21/08 12:50	07/22/08 10:30
9223805016	MW-17	Water	07/21/08 13:30	07/22/08 10:30
9223805017	DW-1	Water	07/21/08 10:20	07/22/08 10:30

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SAMPLE ANALYTE COUNT

Project: SHORT SHOP
Pace Project No.: 9223805

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9223805001	**MW-2R**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	DJM	21
		SM 3500-Fe D#4	RAB	1
9223805002	**MW-3R**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805003	**MW-4R**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805004	**MW-5**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805005	**MW-6**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805006	**MW-7**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805007	**MW-8**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805008	**MW-9**	EPA 353.2	DMN	1
		EPA 6010	JMW	1

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SAMPLE ANALYTE COUNT

Project: SHORT SHOP
Pace Project No.: 9223805

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805009	**MW-10**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805010	**MW-11**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805011	**MW-12**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805012	**MW-13**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805013	**MW-14**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805014	**MW-15**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805015	**MW-16**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21

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SAMPLE ANALYTE COUNT

Project: SHORT SHOP
Pace Project No.: 9223805

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 3500-Fe D#4	RAB	1
9223805016	MW-17	EPA 353.2	DMN	1
		EPA 6010	EWS	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1
9223805017	DW-1	EPA 353.2	DMN	1
		EPA 6010	EWS	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	RAB	1

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-2R **Lab ID: 9223805001** Collected: 07/21/08 12:00 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 17:26	106-93-4	
1-Chloro-2-bromopropane (S)	121	%	60-140		1	07/23/08 00:00	07/23/08 17:26	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.2**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:05	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/28/08 08:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/28/08 08:52	994-05-8	
Benzene	**90.2**	ug/L	5.0	1.2	1		07/28/08 08:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/28/08 08:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/28/08 08:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/28/08 08:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/28/08 08:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/28/08 08:52	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/28/08 08:52	64-17-5	
Ethylbenzene	**18.8**	ug/L	5.0	1.1	1		07/28/08 08:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/28/08 08:52	637-92-3	
Methyl-tert-butyl ether	**2.9J**	ug/L	5.0	2.0	1		07/28/08 08:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/28/08 08:52	91-20-3	
Toluene	**126**	ug/L	5.0	1.8	1		07/28/08 08:52	108-88-3	
Xylene (Total)	**84.3**	ug/L	15.0	4.4	1		07/28/08 08:52	1330-20-7	
m&p-Xylene	**70.5**	ug/L	10.0	2.7	1		07/28/08 08:52	1330-20-7	
o-Xylene	**13.8**	ug/L	5.0	1.7	1		07/28/08 08:52	95-47-6	
Dibromofluoromethane (S)	101	%	85-115		1		07/28/08 08:52	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		07/28/08 08:52	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-109		1		07/28/08 08:52	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		07/28/08 08:52	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:21		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.18**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-3R **Lab ID: 9223805002** Collected: 07/21/08 11:50 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 18:02	106-93-4	
1-Chloro-2-bromopropane (S)	117	%	60-140		1	07/23/08 00:00	07/23/08 18:02	301-79-56	

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-3R **Lab ID: 9223805002** Collected: 07/21/08 11:50 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:09	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	5000	3100	50		08/04/08 12:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	225	50		08/04/08 12:25	994-05-8	
Benzene	**577**	ug/L	50.0	12.0	10		08/02/08 16:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		08/04/08 12:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1350	50		08/04/08 12:25	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		08/04/08 12:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		08/02/08 16:23	107-06-2	
Diisopropyl ether	ND	ug/L	250	135	50		08/04/08 12:25	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		08/04/08 12:25	64-17-5	
Ethylbenzene	**244**	ug/L	50.0	11.0	10		08/02/08 16:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		08/04/08 12:25	637-92-3	
Methyl-tert-butyl ether	**892**	ug/L	50.0	20.0	10		08/02/08 16:23	1634-04-4	
Naphthalene	ND	ug/L	50.0	29.0	10		08/02/08 16:23	91-20-3	
Toluene	**3850**	ug/L	250	90.0	50		08/04/08 12:25	108-88-3	
Xylene (Total)	**991**	ug/L	150	44.0	10		08/02/08 16:23	1330-20-7	
m&p-Xylene	**722**	ug/L	100	27.0	10		08/02/08 16:23	1330-20-7	
o-Xylene	**268**	ug/L	50.0	17.0	10		08/02/08 16:23	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		10		08/02/08 16:23	1868-53-7	
Toluene-d8 (S)	98	%	70-120		10		08/02/08 16:23	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-109		10		08/02/08 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	79-120		10		08/02/08 16:23	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:19		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.2**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-4R **Lab ID: 9223805003** Collected: 07/21/08 11:30 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 18:25	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	07/23/08 00:00	07/23/08 18:25	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.2**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:13	7439-92-1	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-4R **Lab ID: 9223805003** Collected: 07/21/08 11:30 Received: 07/22/08 10:30 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		07/31/08 19:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/31/08 19:33	994-05-8	
Benzene	**23.5**	ug/L	5.0	1.2	1		07/31/08 19:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/31/08 19:33	624-95-3	
tert-Butyl Alcohol	**35.9J**	ug/L	100	27.0	1		07/31/08 19:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/31/08 19:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/31/08 19:33	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/31/08 19:33	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/31/08 19:33	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/31/08 19:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/31/08 19:33	637-92-3	
Methyl-tert-butyl ether	**21.2**	ug/L	5.0	2.0	1		07/31/08 19:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/31/08 19:33	91-20-3	
Toluene	**2.7J**	ug/L	5.0	1.8	1		07/31/08 19:33	108-88-3	
Xylene (Total)	**22.0**	ug/L	15.0	4.4	1		07/31/08 19:33	1330-20-7	
m&p-Xylene	**17.3**	ug/L	10.0	2.7	1		07/31/08 19:33	1330-20-7	
o-Xylene	**4.6J**	ug/L	5.0	1.7	1		07/31/08 19:33	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		07/31/08 19:33	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		07/31/08 19:33	2037-26-5	
4-Bromofluorobenzene (S)	96	%	87-109		1		07/31/08 19:33	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		07/31/08 19:33	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:16		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-5 **Lab ID: 9223805004** Collected: 07/21/08 11:40 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 18:37	106-93-4	
1-Chloro-2-bromopropane (S)	132	%	60-140		1	07/23/08 00:00	07/23/08 18:37	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.0**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:17	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	500	310	5		07/31/08 13:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	22.5	5		07/31/08 13:06	994-05-8	
Benzene	**474**	ug/L	25.0	6.0	5		07/31/08 13:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		07/31/08 13:06	624-95-3	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-5 **Lab ID: 9223805004** Collected: 07/21/08 11:40 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Butyl Alcohol	ND	ug/L	500	135	5		07/31/08 13:06	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		07/31/08 13:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		07/31/08 13:06	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	13.5	5		07/31/08 13:06	108-20-3	
Ethanol	ND	ug/L	1000	850	5		07/31/08 13:06	64-17-5	
Ethylbenzene	**19.7J**	ug/L	25.0	5.5	5		07/31/08 13:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		07/31/08 13:06	637-92-3	
Methyl-tert-butyl ether	**39.2**	ug/L	25.0	10.0	5		07/31/08 13:06	1634-04-4	
Naphthalene	ND	ug/L	25.0	14.5	5		07/31/08 13:06	91-20-3	
Toluene	**63.4**	ug/L	25.0	9.0	5		07/31/08 13:06	108-88-3	
Xylene (Total)	**192**	ug/L	75.0	22.0	5		07/31/08 13:06	1330-20-7	
m&p-Xylene	**154**	ug/L	50.0	13.5	5		07/31/08 13:06	1330-20-7	
o-Xylene	**38.8**	ug/L	25.0	8.5	5		07/31/08 13:06	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		5		07/31/08 13:06	1868-53-7	
Toluene-d8 (S)	98	%	70-120		5		07/31/08 13:06	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109		5		07/31/08 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		5		07/31/08 13:06	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:19		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.46**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-6 **Lab ID: 9223805005** Collected: 07/21/08 11:20 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 18:49	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	07/23/08 00:00	07/23/08 18:49	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.7J**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:21	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/31/08 19:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/31/08 19:57	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		07/31/08 19:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/31/08 19:57	624-95-3	
tert-Butyl Alcohol	**30.6J**	ug/L	100	27.0	1		07/31/08 19:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/31/08 19:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/31/08 19:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/31/08 19:57	108-20-3	

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Asheville, NC 28804
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-6 **Lab ID: 9223805005** Collected: 07/21/08 11:20 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	200	170	1		07/31/08 19:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/31/08 19:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/31/08 19:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/31/08 19:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/31/08 19:57	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		07/31/08 19:57	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		07/31/08 19:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		07/31/08 19:57	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		07/31/08 19:57	95-47-6	
Dibromofluoromethane (S)	104	%	85-115		1		07/31/08 19:57	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		07/31/08 19:57	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109		1		07/31/08 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		07/31/08 19:57	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:14		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-7 **Lab ID: 9223805006** Collected: 07/21/08 11:10 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 19:01	106-93-4	
1-Chloro-2-bromopropane (S)	82	%	60-140		1	07/23/08 00:00	07/23/08 19:01	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:25	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2200**	ug/L	500	310	5		07/31/08 13:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	22.5	5		07/31/08 13:26	994-05-8	
Benzene	**559**	ug/L	25.0	6.0	5		07/31/08 13:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		07/31/08 13:26	624-95-3	
tert-Butyl Alcohol	**300J**	ug/L	500	135	5		07/31/08 13:26	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		07/31/08 13:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		07/31/08 13:26	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	13.5	5		07/31/08 13:26	108-20-3	
Ethanol	ND	ug/L	1000	850	5		07/31/08 13:26	64-17-5	
Ethylbenzene	**17.4J**	ug/L	25.0	5.5	5		07/31/08 13:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		07/31/08 13:26	637-92-3	
Methyl-tert-butyl ether	**17.6J**	ug/L	25.0	10.0	5		07/31/08 13:26	1634-04-4	

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(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-7 **Lab ID: 9223805006** Collected: 07/21/08 11:10 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	25.0	14.5	5		07/31/08 13:26	91-20-3	
Toluene	ND	ug/L	25.0	9.0	5		07/31/08 13:26	108-88-3	
Xylene (Total)	**465**	ug/L	75.0	22.0	5		07/31/08 13:26	1330-20-7	
m&p-Xylene	**418**	ug/L	50.0	13.5	5		07/31/08 13:26	1330-20-7	
o-Xylene	**47.4**	ug/L	25.0	8.5	5		07/31/08 13:26	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		5		07/31/08 13:26	1868-53-7	
Toluene-d8 (S)	99	%	70-120		5		07/31/08 13:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		5		07/31/08 13:26	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	79-120		5		07/31/08 13:26	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:12		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-8 **Lab ID: 9223805007** Collected: 07/21/08 10:30 Received: 07/22/08 10:30 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)	**1.1**	ug/L	0.020	0.020	1	07/23/08 00:00	07/23/08 19:13	106-93-4	
1-Chloro-2-bromopropane (S)	93	%	60-140		1	07/23/08 00:00	07/23/08 19:13	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:29	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**7790**	ug/L	1000	620	10		07/30/08 14:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	45.0	10		07/30/08 14:08	994-05-8	
Benzene	**3650**	ug/L	250	60.0	50		07/31/08 18:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	480	10		07/30/08 14:08	624-95-3	
tert-Butyl Alcohol	**1280**	ug/L	1000	270	10		07/30/08 14:08	75-65-0	
tert-Butyl Formate	ND	ug/L	500	90.0	10		07/30/08 14:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		07/30/08 14:08	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	27.0	10		07/30/08 14:08	108-20-3	
Ethanol	ND	ug/L	2000	1700	10		07/30/08 14:08	64-17-5	
Ethylbenzene	**13.2J**	ug/L	50.0	11.0	10		07/30/08 14:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	46.0	10		07/30/08 14:08	637-92-3	
Methyl-tert-butyl ether	**394**	ug/L	50.0	20.0	10		07/30/08 14:08	1634-04-4	
Naphthalene	**166**	ug/L	50.0	29.0	10		07/30/08 14:08	91-20-3	
Toluene	ND	ug/L	50.0	18.0	10		07/30/08 14:08	108-88-3	
Xylene (Total)	**645**	ug/L	150	44.0	10		07/30/08 14:08	1330-20-7	
m&p-Xylene	**521**	ug/L	100	27.0	10		07/30/08 14:08	1330-20-7	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-8 **Lab ID: 9223805007** Collected: 07/21/08 10:30 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
o-Xylene	**124**	ug/L	50.0	17.0	10		07/30/08 14:08	95-47-6	
Dibromofluoromethane (S)	98	%	85-115		10		07/30/08 14:08	1868-53-7	
Toluene-d8 (S)	100	%	70-120		10		07/30/08 14:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109		10		07/30/08 14:08	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		10		07/30/08 14:08	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:07		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.37**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-9 **Lab ID: 9223805008** Collected: 07/21/08 10:50 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 19:24	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140		1	07/23/08 00:00	07/23/08 19:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**335**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:41	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/30/08 16:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 16:45	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		07/30/08 16:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 16:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 16:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 16:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 16:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 16:45	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 16:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/30/08 16:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 16:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/30/08 16:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 16:45	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		07/30/08 16:45	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		07/30/08 16:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		07/30/08 16:45	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		07/30/08 16:45	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		07/30/08 16:45	1868-53-7	
Toluene-d8 (S)	93	%	70-120		1		07/30/08 16:45	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		07/30/08 16:45	460-00-4	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-9 **Lab ID: 9223805008** Collected: 07/21/08 10:50 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		07/30/08 16:45	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:09		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.25**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-10 **Lab ID: 9223805009** Collected: 07/21/08 11:00 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 19:36	106-93-4	
1-Chloro-2-bromopropane (S)	83	%	60-140		1	07/23/08 00:00	07/23/08 19:36	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**56.6**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:54	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**107**	ug/L	100	62.0	1		07/30/08 17:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 17:02	994-05-8	
Benzene	**6.4**	ug/L	5.0	1.2	1		07/30/08 17:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 17:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 17:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 17:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 17:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 17:02	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 17:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/30/08 17:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 17:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/30/08 17:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 17:02	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		07/30/08 17:02	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		07/30/08 17:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		07/30/08 17:02	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		07/30/08 17:02	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		07/30/08 17:02	1868-53-7	
Toluene-d8 (S)	95	%	70-120		1		07/30/08 17:02	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		07/30/08 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		07/30/08 17:02	17060-07-0	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-10 **Lab ID: 9223805009** Collected: 07/21/08 11:00 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:11		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-11 **Lab ID: 9223805010** Collected: 07/21/08 10:40 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 20:11	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	07/23/08 00:00	07/23/08 20:11	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.7J**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 17:58	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**965**	ug/L	100	62.0	1		07/30/08 17:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 17:18	994-05-8	
Benzene	**166**	ug/L	5.0	1.2	1		07/30/08 17:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 17:18	624-95-3	
tert-Butyl Alcohol	**154**	ug/L	100	27.0	1		07/30/08 17:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 17:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 17:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 17:18	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 17:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/30/08 17:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 17:18	637-92-3	
Methyl-tert-butyl ether	**29.0**	ug/L	5.0	2.0	1		07/30/08 17:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 17:18	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		07/30/08 17:18	108-88-3	
Xylene (Total)	**39.8**	ug/L	15.0	4.4	1		07/30/08 17:18	1330-20-7	
m&p-Xylene	**31.8**	ug/L	10.0	2.7	1		07/30/08 17:18	1330-20-7	
o-Xylene	**7.9**	ug/L	5.0	1.7	1		07/30/08 17:18	95-47-6	
Dibromofluoromethane (S)	101	%	85-115		1		07/30/08 17:18	1868-53-7	
Toluene-d8 (S)	96	%	70-120		1		07/30/08 17:18	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		1		07/30/08 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		07/30/08 17:18	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:09		

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-11 **Lab ID: 9223805010** Collected: 07/21/08 10:40 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-12 **Lab ID: 9223805011** Collected: 07/21/08 12:10 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 20:23	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	07/23/08 00:00	07/23/08 20:23	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.7**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 18:02	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/30/08 17:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 17:34	994-05-8	
Benzene	**8.9**	ug/L	5.0	1.2	1		07/30/08 17:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 17:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 17:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 17:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 17:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 17:34	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 17:34	64-17-5	
Ethylbenzene	**11.8**	ug/L	5.0	1.1	1		07/30/08 17:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 17:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/30/08 17:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 17:34	91-20-3	
Toluene	**85.4**	ug/L	5.0	1.8	1		07/30/08 17:34	108-88-3	
Xylene (Total)	**51.7**	ug/L	15.0	4.4	1		07/30/08 17:34	1330-20-7	
m&p-Xylene	**39.4**	ug/L	10.0	2.7	1		07/30/08 17:34	1330-20-7	
o-Xylene	**12.2**	ug/L	5.0	1.7	1		07/30/08 17:34	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		07/30/08 17:34	1868-53-7	
Toluene-d8 (S)	101	%	70-120		1		07/30/08 17:34	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		1		07/30/08 17:34	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		07/30/08 17:34	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:21		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		07/22/08 23:01		

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-13 **Lab ID: 9223805012** Collected: 07/21/08 12:20 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 20:35	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	07/23/08 00:00	07/23/08 20:35	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**10.9**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 18:06	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/30/08 17:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 17:50	994-05-8	
Benzene	**2.8J**	ug/L	5.0	1.2	1		07/30/08 17:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 17:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 17:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 17:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 17:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 17:50	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 17:50	64-17-5	
Ethylbenzene	**3.0J**	ug/L	5.0	1.1	1		07/30/08 17:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 17:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/30/08 17:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 17:50	91-20-3	
Toluene	**22.9**	ug/L	5.0	1.8	1		07/30/08 17:50	108-88-3	
Xylene (Total)	**12.9J**	ug/L	15.0	4.4	1		07/30/08 17:50	1330-20-7	
m&p-Xylene	**9.7J**	ug/L	10.0	2.7	1		07/30/08 17:50	1330-20-7	
o-Xylene	**3.3J**	ug/L	5.0	1.7	1		07/30/08 17:50	95-47-6	
Dibromofluoromethane (S)	102	%	85-115		1		07/30/08 17:50	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		07/30/08 17:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		07/30/08 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		07/30/08 17:50	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:23		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.19**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-14 **Lab ID: 9223805013** Collected: 07/21/08 12:30 Received: 07/22/08 10:30 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)	**0.12**	ug/L	0.020	0.020	1	07/23/08 00:00	07/23/08 20:47	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	07/23/08 00:00	07/23/08 20:47	301-79-56	

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-14 **Lab ID: 9223805013** Collected: 07/21/08 12:30 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**221**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 18:10	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**458**	ug/L	100	62.0	1		07/30/08 18:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 18:06	994-05-8	
Benzene	**99.1**	ug/L	5.0	1.2	1		07/30/08 18:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 18:06	624-95-3	
tert-Butyl Alcohol	**82.1J**	ug/L	100	27.0	1		07/30/08 18:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 18:06	762-75-4	
1,2-Dichloroethane	**1.7J**	ug/L	5.0	1.3	1		07/30/08 18:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 18:06	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 18:06	64-17-5	
Ethylbenzene	**3.5J**	ug/L	5.0	1.1	1		07/30/08 18:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 18:06	637-92-3	
Methyl-tert-butyl ether	**68.9**	ug/L	5.0	2.0	1		07/30/08 18:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 18:06	91-20-3	
Toluene	**25.5**	ug/L	5.0	1.8	1		07/30/08 18:06	108-88-3	
Xylene (Total)	**20.0**	ug/L	15.0	4.4	1		07/30/08 18:06	1330-20-7	
m&p-Xylene	**15.0**	ug/L	10.0	2.7	1		07/30/08 18:06	1330-20-7	
o-Xylene	**5.0**	ug/L	5.0	1.7	1		07/30/08 18:06	95-47-6	
Dibromofluoromethane (S)	100	%	85-115		1		07/30/08 18:06	1868-53-7	
Toluene-d8 (S)	94	%	70-120		1		07/30/08 18:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109		1		07/30/08 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		07/30/08 18:06	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:24		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.21**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-15 **Lab ID: 9223805014** Collected: 07/21/08 12:40 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 20:58	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	07/23/08 00:00	07/23/08 20:58	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**165**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 18:16	7439-92-1	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-15 **Lab ID: 9223805014** Collected: 07/21/08 12:40 Received: 07/22/08 10:30 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		07/30/08 18:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 18:23	994-05-8	
Benzene	**1.6J**	ug/L	5.0	1.2	1		07/30/08 18:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 18:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 18:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 18:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 18:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 18:23	108-20-3	
Ethanol	**205**	ug/L	200	170	1		07/30/08 18:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/30/08 18:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 18:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/30/08 18:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 18:23	91-20-3	
Toluene	**7.2**	ug/L	5.0	1.8	1		07/30/08 18:23	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		07/30/08 18:23	1330-20-7	
m&p-Xylene	**3.2J**	ug/L	10.0	2.7	1		07/30/08 18:23	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		07/30/08 18:23	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		07/30/08 18:23	1868-53-7	
Toluene-d8 (S)	99	%	70-120		1		07/30/08 18:23	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		07/30/08 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		07/30/08 18:23	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:26		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.15**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-16 **Lab ID: 9223805015** Collected: 07/21/08 12:50 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 21:10	106-93-4	
1-Chloro-2-bromopropane (S)	83	%	60-140		1	07/23/08 00:00	07/23/08 21:10	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**50.6**	ug/L	5.0	4.0	1	07/24/08 14:20	07/28/08 18:21	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/30/08 18:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 18:39	994-05-8	
Benzene	**1.3J**	ug/L	5.0	1.2	1		07/30/08 18:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 18:39	624-95-3	

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-16 **Lab ID: 9223805015** Collected: 07/21/08 12:50 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 18:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 18:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 18:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 18:39	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 18:39	64-17-5	
Ethylbenzene	**1.2J**	ug/L	5.0	1.1	1		07/30/08 18:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 18:39	637-92-3	
Methyl-tert-butyl ether	**5.5**	ug/L	5.0	2.0	1		07/30/08 18:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 18:39	91-20-3	
Toluene	**9.4**	ug/L	5.0	1.8	1		07/30/08 18:39	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		07/30/08 18:39	1330-20-7	
m&p-Xylene	**2.7J**	ug/L	10.0	2.7	1		07/30/08 18:39	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		07/30/08 18:39	95-47-6	
Dibromofluoromethane (S)	104	%	85-115		1		07/30/08 18:39	1868-53-7	
Toluene-d8 (S)	94	%	70-120		1		07/30/08 18:39	2037-26-5	
4-Bromofluorobenzene (S)	96	%	87-109		1		07/30/08 18:39	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		07/30/08 18:39	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:26		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.14**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: MW-17 **Lab ID: 9223805016** Collected: 07/21/08 13:30 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 21:22	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	07/23/08 00:00	07/23/08 21:22	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**85.7**	ug/L	5.0	4.0	1	07/25/08 12:50	07/29/08 18:04	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/30/08 18:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 18:55	994-05-8	
Benzene	**2.0J**	ug/L	5.0	1.2	1		07/30/08 18:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 18:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/30/08 18:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 18:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/30/08 18:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 18:55	108-20-3	

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: MW-17 **Lab ID: 9223805016** Collected: 07/21/08 13:30 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	200	170	1		07/30/08 18:55	64-17-5	
Ethylbenzene	**2.1J**	ug/L	5.0	1.1	1		07/30/08 18:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 18:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/30/08 18:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 18:55	91-20-3	
Toluene	**15.7**	ug/L	5.0	1.8	1		07/30/08 18:55	108-88-3	
Xylene (Total)	**5.5J**	ug/L	15.0	4.4	1		07/30/08 18:55	1330-20-7	
m&p-Xylene	**4.0J**	ug/L	10.0	2.7	1		07/30/08 18:55	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		07/30/08 18:55	95-47-6	
Dibromofluoromethane (S)	103	%	85-115		1		07/30/08 18:55	1868-53-7	
Toluene-d8 (S)	90	%	70-120		1		07/30/08 18:55	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109		1		07/30/08 18:55	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	79-120		1		07/30/08 18:55	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:33		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.74**	mg/L	0.10	0.10	1		07/22/08 23:01		

Sample: DW-1 **Lab ID: 9223805017** Collected: 07/21/08 10:20 Received: 07/22/08 10:30 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	07/23/08 00:00	07/23/08 21:33	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	07/23/08 00:00	07/23/08 21:33	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**9.6**	ug/L	5.0	4.0	1	07/25/08 12:50	07/29/08 18:12	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1240**	ug/L	100	62.0	1		07/30/08 19:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/30/08 19:11	994-05-8	
Benzene	**332**	ug/L	25.0	6.0	5		07/31/08 16:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/30/08 19:11	624-95-3	
tert-Butyl Alcohol	**195**	ug/L	100	27.0	1		07/30/08 19:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/30/08 19:11	762-75-4	
1,2-Dichloroethane	**2.6J**	ug/L	5.0	1.3	1		07/30/08 19:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/30/08 19:11	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/30/08 19:11	64-17-5	
Ethylbenzene	**1.1J**	ug/L	5.0	1.1	1		07/30/08 19:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/30/08 19:11	637-92-3	
Methyl-tert-butyl ether	**92.7**	ug/L	5.0	2.0	1		07/30/08 19:11	1634-04-4	

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ANALYTICAL RESULTS

Project: SHORT SHOP
Pace Project No.: 9223805

Sample: DW-1 **Lab ID: 9223805017** Collected: 07/21/08 10:20 Received: 07/22/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	5.0	2.9	1		07/30/08 19:11	91-20-3	
Toluene	**2.4J**	ug/L	5.0	1.8	1		07/30/08 19:11	108-88-3	
Xylene (Total)	**64.9**	ug/L	15.0	4.4	1		07/30/08 19:11	1330-20-7	
m&p-Xylene	**52.7**	ug/L	10.0	2.7	1		07/30/08 19:11	1330-20-7	
o-Xylene	**12.2**	ug/L	5.0	1.7	1		07/30/08 19:11	95-47-6	
Dibromofluoromethane (S)	101	%	85-115		1		07/30/08 19:11	1868-53-7	
Toluene-d8 (S)	95	%	70-120		1		07/30/08 19:11	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		07/30/08 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	79-120		1		07/30/08 19:11	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		07/29/08 22:04		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.40**	mg/L	0.10	0.10	1		07/22/08 23:01		

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: WETA/3129 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

METHOD BLANK: 143004
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 143005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	4.7	95	90-110	

MATRIX SPIKE SAMPLE: 143006

Parameter	Units	9223805017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.40	5	5.7	106	90-110	

MATRIX SPIKE SAMPLE: 143008

Parameter	Units	9223805001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.18	5	5.0	97	90-110	

SAMPLE DUPLICATE: 143007

Parameter	Units	9223805007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.37	0.38	2	20	

SAMPLE DUPLICATE: 143009

Parameter	Units	9223805011 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND	0	20	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: OEXT/3854 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

METHOD BLANK: 143160

Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	
1-Chloro-2-bromopropane (S)	%	102	60-140	

LABORATORY CONTROL SAMPLE & LCSD: 143161 143162

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	0.21	0.21	74	74	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				101	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 143163 143164

Parameter	Units	9223805001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.22	0.23	76	80	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						121	121	60-140			

SAMPLE DUPLICATE: 143165

Parameter	Units	9223805002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0	20	
1-Chloro-2-bromopropane (S)	%		113	3		

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MPRP/2717 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015

METHOD BLANK: 143765

Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Lead	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 143766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	490	98	80-120	

MATRIX SPIKE SAMPLE: 143767

Parameter	Units	9223845006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	474	95	75-125	

SAMPLE DUPLICATE: 143768

Parameter	Units	9223845007 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	65.2	61.9	5	20	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MPRP/2722
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9223805016, 9223805017

METHOD BLANK: 144496
Associated Lab Samples: 9223805016, 9223805017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Lead	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 144497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE SAMPLE: 144572

Parameter	Units	9223793008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	461	92	75-125	

SAMPLE DUPLICATE: 144573

Parameter	Units	9223793008 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND	0	20	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MSV/4077
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9223805001

METHOD BLANK: 145158
Associated Lab Samples: 9223805001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	15.0	
1,2-Dichloroethane-d4 (S)	%	100	79-120	
4-Bromofluorobenzene (S)	%	101	87-109	
Dibromofluoromethane (S)	%	99	85-115	
Toluene-d8 (S)	%	100	70-120	

LABORATORY CONTROL SAMPLE: 145159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.1	98	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	55-148	
Benzene	ug/L	50	48.3	97	78-128	
Diisopropyl ether	ug/L	50	47.8	96	74-131	
Ethanol	ug/L	2000	2120	106	53-150	
Ethyl-tert-butyl ether	ug/L	100	93.0	93	77-136	
Ethylbenzene	ug/L	50	48.2	96	80-127	
m&p-Xylene	ug/L	100	96.2	96	82-127	
Methyl-tert-butyl ether	ug/L	50	50.1	100	71-130	
Naphthalene	ug/L	50	55.8	112	52-136	
o-Xylene	ug/L	50	47.4	95	83-124	
tert-Amyl Alcohol	ug/L	1000	1020	102	50-150	
tert-Amylmethyl ether	ug/L	100	95.3	95	50-150	
tert-Butyl Alcohol	ug/L	500	511	102	50-150	
tert-Butyl Formate	ug/L	200	132	66	50-150	
Toluene	ug/L	50	48.6	97	76-126	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

LABORATORY CONTROL SAMPLE: 145159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	83-125	
1,2-Dichloroethane-d4 (S)	%			102	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 145165 145166

Parameter	Units	9224015015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	55.5	55.5	111	111	74-136	.02	30	
Toluene	ug/L	ND	50	50	56.4	56.5	113	113	73-131	.1	30	
1,2-Dichloroethane-d4 (S)	%						99	99	79-120			
4-Bromofluorobenzene (S)	%						99	98	87-109			
Dibromofluoromethane (S)	%						97	98	85-115			
Toluene-d8 (S)	%						102	102	70-120			

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MSV/4100
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9223805004, 9223805006

METHOD BLANK: 145995
Associated Lab Samples: 9223805004, 9223805006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	15.0	
1,2-Dichloroethane-d4 (S)	%	103	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	100	85-115	
Toluene-d8 (S)	%	100	70-120	

LABORATORY CONTROL SAMPLE: 145996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.2	98	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	935	94	55-148	
Benzene	ug/L	50	49.7	99	78-128	
Diisopropyl ether	ug/L	50	50.2	100	74-131	
Ethanol	ug/L	2000	1960	98	53-150	
Ethyl-tert-butyl ether	ug/L	100	95.4	95	77-136	
Ethylbenzene	ug/L	50	51.1	102	80-127	
m&p-Xylene	ug/L	100	104	104	82-127	
Methyl-tert-butyl ether	ug/L	50	50.2	100	71-130	
Naphthalene	ug/L	50	52.9	106	52-136	
o-Xylene	ug/L	50	51.9	104	83-124	
tert-Amyl Alcohol	ug/L	1000	981	98	50-150	
tert-Amylmethyl ether	ug/L	100	97.0	97	50-150	
tert-Butyl Alcohol	ug/L	500	461	92	50-150	
tert-Butyl Formate	ug/L	200	184	92	50-150	
Toluene	ug/L	50	49.5	99	76-126	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

LABORATORY CONTROL SAMPLE: 145996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	156	104	83-125	
1,2-Dichloroethane-d4 (S)	%			96	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			99	70-120	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: WET/4863 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

METHOD BLANK: 146006
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005, 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	

LABORATORY CONTROL SAMPLE: 146007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	101	90-110	

SAMPLE DUPLICATE: 146008

Parameter	Units	9223805017 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND	66	20	R1

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MSV/4105 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

METHOD BLANK: 146390

Associated Lab Samples: 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	15.0	
1,2-Dichloroethane-d4 (S)	%	102	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	100	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 146391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.8	92	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	871	87	55-148	
Benzene	ug/L	50	47.3	95	78-128	
Diisopropyl ether	ug/L	50	47.3	95	74-131	
Ethanol	ug/L	2000	1650	83	53-150	
Ethyl-tert-butyl ether	ug/L	100	90.1	90	77-136	
Ethylbenzene	ug/L	50	46.5	93	80-127	
m&p-Xylene	ug/L	100	93.2	93	82-127	
Methyl-tert-butyl ether	ug/L	50	46.1	92	71-130	
Naphthalene	ug/L	50	48.1	96	52-136	
o-Xylene	ug/L	50	45.8	92	83-124	
tert-Amyl Alcohol	ug/L	1000	845	85	50-150	
tert-Amylmethyl ether	ug/L	100	90.1	90	50-150	
tert-Butyl Alcohol	ug/L	500	422	84	50-150	
tert-Butyl Formate	ug/L	200	173	87	50-150	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

LABORATORY CONTROL SAMPLE: 146391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.2	92	76-126	
Xylene (Total)	ug/L	150	139	93	83-125	
1,2-Dichloroethane-d4 (S)	%			94	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE SAMPLE: 146393

Parameter	Units	9224205012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	50	44.9	90	74-136	
Toluene	ug/L	ND	50	43.5	86	73-131	
1,2-Dichloroethane-d4 (S)	%				114	79-120	
4-Bromofluorobenzene (S)	%				93	87-109	
Dibromofluoromethane (S)	%				102	85-115	
Toluene-d8 (S)	%				101	70-120	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MSV/4106
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9223805007

METHOD BLANK: 146398
Associated Lab Samples: 9223805007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	15.0	
1,2-Dichloroethane-d4 (S)	%	99	79-120	
4-Bromofluorobenzene (S)	%	100	87-109	
Dibromofluoromethane (S)	%	100	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 146399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.8	92	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	871	87	55-148	
Benzene	ug/L	50	47.3	95	78-128	
Diisopropyl ether	ug/L	50	47.3	95	74-131	
Ethanol	ug/L	2000	1650	83	53-150	
Ethyl-tert-butyl ether	ug/L	100	90.1	90	77-136	
Ethylbenzene	ug/L	50	46.5	93	80-127	
m&p-Xylene	ug/L	100	93.2	93	82-127	
Methyl-tert-butyl ether	ug/L	50	46.1	92	71-130	
Naphthalene	ug/L	50	48.1	96	52-136	
o-Xylene	ug/L	50	45.8	92	83-124	
tert-Amyl Alcohol	ug/L	1000	845	85	50-150	
tert-Amylmethyl ether	ug/L	100	90.1	90	50-150	
tert-Butyl Alcohol	ug/L	500	422	84	50-150	
tert-Butyl Formate	ug/L	200	173	87	50-150	
Toluene	ug/L	50	46.2	92	76-126	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

LABORATORY CONTROL SAMPLE: 146399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	139	93	83-125	
1,2-Dichloroethane-d4 (S)	%			94	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			100	70-120	

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QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

QC Batch: MSV/4121 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9223805002, 9223805003, 9223805005

METHOD BLANK: 147199

Associated Lab Samples: 9223805002, 9223805003, 9223805005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	83.5J	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	29.8J	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	15.0	
1,2-Dichloroethane-d4 (S)	%	101	79-120	
4-Bromofluorobenzene (S)	%	96	87-109	
Dibromofluoromethane (S)	%	99	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 147200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	54.8	110	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	55-148	
Benzene	ug/L	50	53.3	107	78-128	
Diisopropyl ether	ug/L	50	55.5	111	74-131	
Ethanol	ug/L	2000	2080	104	53-150	
Ethyl-tert-butyl ether	ug/L	100	103	103	77-136	
Ethylbenzene	ug/L	50	53.8	108	80-127	
m&p-Xylene	ug/L	100	105	105	82-127	
Methyl-tert-butyl ether	ug/L	50	55.1	110	71-130	
Naphthalene	ug/L	50	54.3	109	52-136	
o-Xylene	ug/L	50	52.9	106	83-124	
tert-Amyl Alcohol	ug/L	1000	1100	110	50-150	
tert-Amylmethyl ether	ug/L	100	103	103	50-150	
tert-Butyl Alcohol	ug/L	500	407	81	50-150	
tert-Butyl Formate	ug/L	200	233	117	50-150	
Toluene	ug/L	50	53.1	106	76-126	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: SHORT SHOP
Pace Project No.: 9223805

LABORATORY CONTROL SAMPLE: 147200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	158	106	83-125	
1,2-Dichloroethane-d4 (S)	%			101	79-120	
4-Bromofluorobenzene (S)	%			98	87-109	
Dibromofluoromethane (S)	%			108	85-115	
Toluene-d8 (S)	%			101	70-120	

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: SHORT SHOP
Pace Project No.: 9223805

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.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 2

1166307

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KLM Environmental	Report To: Mark Keller	Attention:
Address: PO Box 2704	Copy To:	Company Name:
Goose Creek SC 29445		Address:
Email To: MKeller131@comcast.net	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Short Stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	Section D Required Client Information 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 COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX/MN	1,2 DCA	Lead	EDB	Nitrate	Sulfate	Fe, Iron	DO Oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92223805
1	MW-2R	WT	G	7/21/08			1200												X	X	X	X	X	X	X	X	92223805001
2	MW-3R						1150																				002
3	MW-4R						1130																				003
4	MW-5						1140																				004
5	MW-6						1120																				005
6	MW-7						1110																				006
7	MW-8						1030																				007
8	MW-9						1050																				008
9	MW-10						1100																				009
10	MW-11						1040																				010
11	MW-12						1210																				011
12	MW-13	X	X	X			1220												X	X	X	X	X	X	X	X	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		7/21/08	1700		7/22/08	10:30	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1166306

Section A Required Client Information:

Company: KLM Env.
Address: PO Box 2704
Goose Creek SC 29445
Email To: mkeller131@comcast.net
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Keller
Copy To:
Purchase Order No.:
Project Name: Short Stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: BTEX Nm	12 DCA	Lead	EDB	Nitrate	Sulfate	Fe. Iron	8 oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-14	WT	G	7/21/08			1230												X	X	X	X	X	X	X	9223805 013
2	MW-15	"	"	"			1240																			014
3	MW-16	"	"	"			1250																			015
4	MW-17	"	"	"			1330																			016
5	BW-1	↓	↓	↓			1020												X	X	X	X	X	X	X	017
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	7/21/8	1700	[signature]	7/22/08	10:30	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: KLM Project # 9223805

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: 2400200007 / 72490786 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: (Add) / Subtract 1.5 C

Corrected Cooler Temp.: 4 C Biological Tissue is Frozen: Yes (No)

Date and Initials of person examining contents: 9/22

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. No3
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	JL
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: KMH **Date:** 9/22/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR

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July 28, 2008

Kevin Herring
Pace Analytical Charlotte
9800 Kincey Ave.
Suite 100
Huntersville, NC 28078

RE: Project: 9223805 SHORT STOP
Pace Project No.: 406720

Dear Kevin Herring:
Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2008. 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.

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

Sincerely,

Eric Wied

eric.wied@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Green Bay Certification IDs
Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs
Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9223805001	MW-2R	Water	07/21/08 12:00	07/23/08 10:15
9223805002	MW-3R	Water	07/21/08 11:50	07/23/08 10:15
9223805003	MW-4R	Water	07/21/08 11:30	07/23/08 10:15
9223805004	MW-5	Water	07/21/08 11:40	07/23/08 10:15
9223805005	MW-6	Water	07/21/08 11:20	07/23/08 10:15
9223805006	MW-7	Water	07/21/08 11:10	07/23/08 10:15
9223805007	MW-8	Water	07/21/08 10:30	07/23/08 10:15
9223805008	MW-9	Water	07/21/08 10:50	07/23/08 10:15
9223805009	MW-10	Water	07/21/08 11:00	07/23/08 10:15
9223805010	MW-11	Water	07/21/08 10:40	07/23/08 10:15
9223805011	MW-12	Water	07/21/08 12:10	07/23/08 10:15
9223805012	MW-13	Water	07/21/08 12:20	07/23/08 10:15
9223805013	MW-14	Water	07/21/08 12:30	07/23/08 10:15
9223805014	MW-15	Water	07/21/08 12:40	07/23/08 10:15
9223805015	MW-16	Water	07/21/08 12:50	07/23/08 10:15
9223805016	MW-17	Water	07/21/08 13:30	07/23/08 10:15
9223805017	DW1	Water	07/21/08 10:20	07/23/08 10:15

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SAMPLE ANALYTE COUNT

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9223805001	MW-2R	EPA 300.0	DDY	1	PASI-G
9223805002	MW-3R	EPA 300.0	DDY	1	PASI-G
9223805003	MW-4R	EPA 300.0	DDY	1	PASI-G
9223805004	MW-5	EPA 300.0	DDY	1	PASI-G
9223805005	MW-6	EPA 300.0	DDY	1	PASI-G
9223805006	MW-7	EPA 300.0	DDY	1	PASI-G
9223805007	MW-8	EPA 300.0	DDY	1	PASI-G
9223805008	MW-9	EPA 300.0	DDY	1	PASI-G
9223805009	MW-10	EPA 300.0	DDY	1	PASI-G
9223805010	MW-11	EPA 300.0	DDY	1	PASI-G
9223805011	MW-12	EPA 300.0	DDY	1	PASI-G
9223805012	MW-13	EPA 300.0	DDY	1	PASI-G
9223805013	MW-14	EPA 300.0	DDY	1	PASI-G
9223805014	MW-15	EPA 300.0	DDY	1	PASI-G
9223805015	MW-16	EPA 300.0	DDY	1	PASI-G
9223805016	MW-17	EPA 300.0	DDY	1	PASI-G
9223805017	DW1	EPA 300.0	DDY	1	PASI-G

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-2R **Lab ID: 9223805001** Collected: 07/21/08 12:00 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 21:26	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-3R **Lab ID: 9223805002** Collected: 07/21/08 11:50 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 21:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-4R **Lab ID: 9223805003** Collected: 07/21/08 11:30 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 21:51	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-5 **Lab ID: 9223805004** Collected: 07/21/08 11:40 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 22:03	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-6 **Lab ID: 9223805005** Collected: 07/21/08 11:20 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 22:15	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-7 **Lab ID: 9223805006** Collected: 07/21/08 11:10 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 22:52	14808-79-8	M0

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-8 **Lab ID: 9223805007** Collected: 07/21/08 10:30 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/23/08 23:53	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-9 **Lab ID: 9223805008** Collected: 07/21/08 10:50 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/24/08 00:29	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-10 **Lab ID: 9223805009** Collected: 07/21/08 11:00 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/24/08 00:41	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-11 **Lab ID: 9223805010** Collected: 07/21/08 10:40 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/24/08 00:53	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-12 **Lab ID: 9223805011** Collected: 07/21/08 12:10 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/24/08 01:06	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-13 **Lab ID: 9223805012** Collected: 07/21/08 12:20 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/24/08 01:18	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-14 **Lab ID: 9223805013** Collected: 07/21/08 12:30 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**5.3**	mg/L	4.0	1		07/24/08 01:30	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-15 **Lab ID: 9223805014** Collected: 07/21/08 12:40 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**8.0**	mg/L	4.0	1		07/24/08 02:07	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-16 **Lab ID: 9223805015** Collected: 07/21/08 12:50 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	4.0	1		07/24/08 02:19	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: MW-17 **Lab ID: 9223805016** Collected: 07/21/08 13:30 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**5.4**	mg/L	4.0	1		07/24/08 02:31	14808-79-8	

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ANALYTICAL RESULTS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Sample: DW1 **Lab ID: 9223805017** Collected: 07/21/08 10:20 Received: 07/23/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**4.2**	mg/L	4.0	1		07/24/08 02:43	14808-79-8	

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QUALITY CONTROL DATA

Project: 9223805 SHORT STOP
Pace Project No.: 406720

QC Batch: WETA/2002 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005

METHOD BLANK: 55123
Associated Lab Samples: 9223805001, 9223805002, 9223805003, 9223805004, 9223805005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfate	mg/L	ND	4.0	

LABORATORY CONTROL SAMPLE: 55124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16	15.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 55125 55126

Parameter	Units	406435006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	6.9	16	16	21.5	21.7	91	93	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 55127 55128

Parameter	Units	9223719013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	5.0	16	16	19.1	19.4	88	90	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: 9223805 SHORT STOP
Pace Project No.: 406720

QC Batch: WETA/2003 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

METHOD BLANK: 55129
Associated Lab Samples: 9223805006, 9223805007, 9223805008, 9223805009, 9223805010, 9223805011, 9223805012, 9223805013, 9223805014, 9223805015, 9223805016, 9223805017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfate	mg/L	ND	4.0	

LABORATORY CONTROL SAMPLE: 55130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16	15.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 55131 55132

Parameter	Units	9223805006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	ND	16	16	16.1	16.3	88	89	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 55133 55134

Parameter	Units	9223805007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	ND	16	16	16.7	16.9	90	91	90-110	1	20	

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QUALIFIERS

Project: 9223805 SHORT STOP
Pace Project No.: 406720

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.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 9223805 SHORT STOP
Pace Project No.: 406720

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9223805001	**MW-2R**	EPA 300.0	WETA/2002		
9223805002	**MW-3R**	EPA 300.0	WETA/2002		
9223805003	**MW-4R**	EPA 300.0	WETA/2002		
9223805004	**MW-5**	EPA 300.0	WETA/2002		
9223805005	**MW-6**	EPA 300.0	WETA/2002		
9223805006	**MW-7**	EPA 300.0	WETA/2003		
9223805007	**MW-8**	EPA 300.0	WETA/2003		
9223805008	**MW-9**	EPA 300.0	WETA/2003		
9223805009	**MW-10**	EPA 300.0	WETA/2003		
9223805010	**MW-11**	EPA 300.0	WETA/2003		
9223805011	**MW-12**	EPA 300.0	WETA/2003		
9223805012	**MW-13**	EPA 300.0	WETA/2003		
9223805013	**MW-14**	EPA 300.0	WETA/2003		
9223805014	**MW-15**	EPA 300.0	WETA/2003		
9223805015	**MW-16**	EPA 300.0	WETA/2003		
9223805016	**MW-17**	EPA 300.0	WETA/2003		
9223805017	**DW1**	EPA 300.0	WETA/2003		

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Huntersville, NC 28078
(704)875-9092

April 04, 2008

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9215993

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2008. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9215993

Charlotte Certification IDs
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9215993

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9215993001	**GP-1**	Water	03/20/08 11:00	03/25/08 09:20
9215993002	**GP-2**	Water	03/20/08 12:00	03/25/08 09:20
9215993003	**GP-3**	Water	03/20/08 13:00	03/25/08 09:20
9215993004	**GP-4**	Solid	03/20/08 14:00	03/25/08 09:20
9215993005	**GP-5**	Water	03/20/08 15:00	03/25/08 09:20
9215993006	**GP-6**	Water	03/20/08 16:00	03/25/08 09:20

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9215993

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9215993001	**GP-1**	EPA 8260	DJM	12
9215993002	**GP-2**	EPA 8260	DJM	12
9215993003	**GP-3**	EPA 8260	DJM	12
9215993004	**GP-4**	ASTM D2974-87	CLW	1
		EPA 8260	DLK	12
9215993005	**GP-5**	EPA 8260	DJM	12
9215993006	**GP-6**	EPA 8260	DJM	12

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9215993

Sample: GP-1 **Lab ID: 9215993001** Collected: 03/20/08 11:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**251**	ug/L	10.0	2.4	2		03/29/08 15:57	71-43-2	
Ethylbenzene	ND	ug/L	10.0	2.2	2		03/29/08 15:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.0	2		03/29/08 15:57	1634-04-4	
Naphthalene	ND	ug/L	10.0	5.8	2		03/29/08 15:57	91-20-3	
Toluene	ND	ug/L	10.0	3.6	2		03/29/08 15:57	108-88-3	
Xylene (Total)	**163**	ug/L	20.0	5.4	2		03/29/08 15:57	1330-20-7	
m&p-Xylene	**149**	ug/L	20.0	5.4	2		03/29/08 15:57	1330-20-7	
o-Xylene	**13.3**	ug/L	10.0	3.4	2		03/29/08 15:57	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		2		03/29/08 15:57	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		2		03/29/08 15:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		2		03/29/08 15:57	17060-07-0	
Toluene-d8 (S)	99	%	70-120		2		03/29/08 15:57	2037-26-5	

Sample: GP-2 **Lab ID: 9215993002** Collected: 03/20/08 12:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**208**	ug/L	25.0	6.0	5		03/30/08 20:33	71-43-2	
Ethylbenzene	**13.2J**	ug/L	25.0	5.5	5		03/30/08 20:33	100-41-4	
Methyl-tert-butyl ether	**11.3J**	ug/L	25.0	10.0	5		03/30/08 20:33	1634-04-4	
Naphthalene	ND	ug/L	25.0	14.5	5		03/30/08 20:33	91-20-3	
Toluene	ND	ug/L	25.0	9.0	5		03/30/08 20:33	108-88-3	
Xylene (Total)	**191**	ug/L	50.0	13.5	5		03/30/08 20:33	1330-20-7	
m&p-Xylene	**170**	ug/L	50.0	13.5	5		03/30/08 20:33	1330-20-7	
o-Xylene	**20.9J**	ug/L	25.0	8.5	5		03/30/08 20:33	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		5		03/30/08 20:33	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		5		03/30/08 20:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		5		03/30/08 20:33	17060-07-0	
Toluene-d8 (S)	99	%	70-120		5		03/30/08 20:33	2037-26-5	

Sample: GP-3 **Lab ID: 9215993003** Collected: 03/20/08 13:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**3350**	ug/L	250	60.0	50		03/29/08 19:05	71-43-2	
Ethylbenzene	**98.3**	ug/L	50.0	11.0	10		03/28/08 17:10	100-41-4	
Methyl-tert-butyl ether	**1150**	ug/L	50.0	20.0	10		03/28/08 17:10	1634-04-4	
Naphthalene	**44.1J**	ug/L	50.0	29.0	10		03/28/08 17:10	91-20-3	
Toluene	**19.0J**	ug/L	50.0	18.0	10		03/28/08 17:10	108-88-3	
Xylene (Total)	**1190**	ug/L	100	27.0	10		03/28/08 17:10	1330-20-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9215993

Sample: GP-3 **Lab ID: 9215993003** Collected: 03/20/08 13:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
m&p-Xylene	**947**	ug/L	100	27.0	10		03/28/08 17:10	1330-20-7	
o-Xylene	**238**	ug/L	50.0	17.0	10		03/28/08 17:10	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		10		03/28/08 17:10	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		10		03/28/08 17:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		10		03/28/08 17:10	17060-07-0	
Toluene-d8 (S)	99	%	70-120		10		03/28/08 17:10	2037-26-5	

Sample: GP-4 **Lab ID: 9215993004** Collected: 03/20/08 14:00 Received: 03/25/08 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	**25.1**	ug/kg	3.9	1.2	1		04/01/08 00:10	71-43-2	
Ethylbenzene	ND	ug/kg	3.9	1.4	1		04/01/08 00:10	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1.2	1		04/01/08 00:10	1634-04-4	
Naphthalene	ND	ug/kg	3.9	0.92	1		04/01/08 00:10	91-20-3	
Toluene	ND	ug/kg	3.9	1.4	1		04/01/08 00:10	108-88-3	
Xylene (Total)	ND	ug/kg	7.7	7.7	1		04/01/08 00:10	1330-20-7	
m&p-Xylene	**3.4J**	ug/kg	7.7	2.8	1		04/01/08 00:10	1330-20-7	
o-Xylene	ND	ug/kg	3.9	1.5	1		04/01/08 00:10	95-47-6	
Dibromofluoromethane (S)	110	%	79-116		1		04/01/08 00:10	1868-53-7	
Toluene-d8 (S)	104	%	88-110		1		04/01/08 00:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%	74-115		1		04/01/08 00:10	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	69-121		1		04/01/08 00:10	17060-07-0	S2
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**28.3**	%	0.10	0.10	1		03/26/08 09:01		

Sample: GP-5 **Lab ID: 9215993005** Collected: 03/20/08 15:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/08 15:36	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/08 15:36	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/28/08 15:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/08 15:36	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/28/08 15:36	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/28/08 15:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/08 15:36	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/08 15:36	95-47-6	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9215993

Sample: GP-5 **Lab ID: 9215993005** Collected: 03/20/08 15:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
4-Bromofluorobenzene (S)	97	%	87-109		1		03/28/08 15:36	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		03/28/08 15:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		03/28/08 15:36	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		03/28/08 15:36	2037-26-5	

Sample: GP-6 **Lab ID: 9215993006** Collected: 03/20/08 16:00 Received: 03/25/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/08 15:59	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/08 15:59	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/28/08 15:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/08 15:59	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/28/08 15:59	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/28/08 15:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/08 15:59	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/08 15:59	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/28/08 15:59	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		03/28/08 15:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		03/28/08 15:59	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		03/28/08 15:59	2037-26-5	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9215993

QC Batch: PMST/1559
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 9215993004

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 93171

Parameter	Units	9215937007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.5	1.7	39	25	R1

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9215993

QC Batch: MSV/2957 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9215993001, 9215993002, 9215993003, 9215993005, 9215993006

METHOD BLANK: 94248
Associated Lab Samples: 9215993001, 9215993002, 9215993003, 9215993005, 9215993006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	ND	5.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	102	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	99	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 94249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	56.1	112	78-128	
Ethylbenzene	ug/L	50	56.7	113	80-127	
m&p-Xylene	ug/L	100	114	114	82-127	
Methyl-tert-butyl ether	ug/L	50	59.9	120	71-130	
Naphthalene	ug/L	50	62.9	126	52-136	
o-Xylene	ug/L	50	55.8	112	83-124	
Toluene	ug/L	50	55.8	112	76-126	
Xylene (Total)	ug/L	150	169	113	83-125	
1,2-Dichloroethane-d4 (S)	%			99	79-120	
4-Bromofluorobenzene (S)	%			102	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94322 94323

Parameter	Units	9215993005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	57.1	55.5	114	111	74-136	3	30	
Toluene	ug/L	ND	50	50	54.2	52.8	107	105	73-131	3	30	
1,2-Dichloroethane-d4 (S)	%						103	103	79-120			
4-Bromofluorobenzene (S)	%						99	100	87-109			
Dibromofluoromethane (S)	%						99	101	85-115			
Toluene-d8 (S)	%						99	99	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9215993

QC Batch: MSV/2982
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9215993004

METHOD BLANK: 95308
Associated Lab Samples: 9215993004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	1.2J	5.0	
o-Xylene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	10	
1,2-Dichloroethane-d4 (S)	%	101	69-121	
4-Bromofluorobenzene (S)	%	96	74-115	
Dibromofluoromethane (S)	%	101	79-116	
Toluene-d8 (S)	%	101	88-110	

LABORATORY CONTROL SAMPLE: 95309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50.1	44.4	89	71-140	
Ethylbenzene	ug/kg	50.1	45.1	90	69-141	
m&p-Xylene	ug/kg	100	89.3	89	72-138	
Methyl-tert-butyl ether	ug/kg	50.1	50.2	100	2-138	
Naphthalene	ug/kg	50.1	58.9	118	61-138	
o-Xylene	ug/kg	50.1	44.9	90	74-137	
Toluene	ug/kg	50.1	44.6	89	69-139	
Xylene (Total)	ug/kg	150	134	89	73-138	
1,2-Dichloroethane-d4 (S)	%			103	69-121	
4-Bromofluorobenzene (S)	%			102	74-115	
Dibromofluoromethane (S)	%			102	79-116	
Toluene-d8 (S)	%			102	88-110	

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9215993

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.

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1156322

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KLM Env.	Report To: Mark Keller	Attention:
Address: PoBox 2704	Copy To:	Company Name:
Goose Creek, SC 29445		Address:
Email To: mkeller131@comcast.net	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Short Stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #: 824-5

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER _____

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEXNM	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-1	wt	G	3/20/08			1100												X		9215993001
2	GP-2	wt					1200														002
3	GP-3	wt					1300														003
4	GP-4	SC					1400														004
5	GP-5	wt					1500														005
6	GP-6	wt					1600												X		006
7																					
8																					
9																					
10																					
11																					
12																					

9215993

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/24/08	1700	J Moore	3/25	920	1.8	u	N	u

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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

Pace Analytical

Sample Condition Upon Receipt

Client Name KLM Project # 9215993

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

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 1.9 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Optional	
Proj. Due Date:	N/A
Proj. Name:	N/A

Date and Initials of person examining contents: JM 3/25

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	HDO Soil in water vials
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15. GP-1/GP-3/GP-5/GP-6
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N / N/A

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: KLA Date: 3/25/08

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

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May 08, 2008

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9218315

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2008. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9218315

Charlotte Certification IDs
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9218315

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9218315001	**S-7**	Water	04/25/08 13:00	04/30/08 09:20
9218315002	**S-8**	Water	04/25/08 13:45	04/30/08 09:20
9218315003	**S-9**	Water	04/25/08 14:30	04/30/08 09:20
9218315004	**S-10**	Water	04/25/08 14:55	04/30/08 09:20
9218315005	**S-11**	Water	04/25/08 15:35	04/30/08 09:20
9218315006	**S-12**	Water	04/25/08 16:30	04/30/08 09:20
9218315007	**S-13**	Water	04/25/08 17:15	04/30/08 09:20

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9218315

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9218315001	**S-7**	EPA 8260	AW	12
9218315002	**S-8**	EPA 8260	AW	12
9218315003	**S-9**	EPA 8260	AW, MCK	12
9218315004	**S-10**	EPA 8260	AW, MCK	12
9218315005	**S-11**	EPA 8260	AW	12
9218315006	**S-12**	EPA 8260	AW	12
9218315007	**S-13**	EPA 8260	AW	12

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9218315

Sample: S-7 **Lab ID: 9218315001** Collected: 04/25/08 13:00 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		05/02/08 21:47	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/02/08 21:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		05/02/08 21:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		05/02/08 21:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/02/08 21:47	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/02/08 21:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		05/02/08 21:47	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		05/02/08 21:47	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		05/02/08 21:47	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		05/02/08 21:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	79-120		1		05/02/08 21:47	17060-07-0	
Toluene-d8 (S)	104	%	70-120		1		05/02/08 21:47	2037-26-5	

Sample: S-8 **Lab ID: 9218315002** Collected: 04/25/08 13:45 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		05/03/08 04:09	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/03/08 04:09	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		05/03/08 04:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		05/03/08 04:09	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/03/08 04:09	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/03/08 04:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		05/03/08 04:09	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		05/03/08 04:09	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		05/03/08 04:09	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		05/03/08 04:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		05/03/08 04:09	17060-07-0	
Toluene-d8 (S)	104	%	70-120		1		05/03/08 04:09	2037-26-5	

Sample: S-9 **Lab ID: 9218315003** Collected: 04/25/08 14:30 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**286**	ug/L	25.0	6.0	5		05/06/08 13:40	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/03/08 04:26	100-41-4	
Methyl-tert-butyl ether	**130**	ug/L	5.0	2.0	1		05/03/08 04:26	1634-04-4	
Naphthalene	**5.6**	ug/L	5.0	2.9	1		05/03/08 04:26	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/03/08 04:26	108-88-3	
Xylene (Total)	**38.5**	ug/L	10.0	2.7	1		05/03/08 04:26	1330-20-7	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9218315

Sample: S-9 **Lab ID: 9218315003** Collected: 04/25/08 14:30 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
m&p-Xylene	**30.1**	ug/L	10.0	2.7	1		05/03/08 04:26	1330-20-7	
o-Xylene	**8.4**	ug/L	5.0	1.7	1		05/03/08 04:26	95-47-6	
4-Bromofluorobenzene (S)	105	%	87-109		1		05/03/08 04:26	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		05/03/08 04:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		05/03/08 04:26	17060-07-0	
Toluene-d8 (S)	103	%	70-120		1		05/03/08 04:26	2037-26-5	

Sample: S-10 **Lab ID: 9218315004** Collected: 04/25/08 14:55 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**335**	ug/L	25.0	6.0	5		05/06/08 20:51	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/03/08 04:43	100-41-4	
Methyl-tert-butyl ether	**113**	ug/L	5.0	2.0	1		05/03/08 04:43	1634-04-4	
Naphthalene	**5.9**	ug/L	5.0	2.9	1		05/03/08 04:43	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/03/08 04:43	108-88-3	
Xylene (Total)	**36.6**	ug/L	10.0	2.7	1		05/03/08 04:43	1330-20-7	
m&p-Xylene	**28.7**	ug/L	10.0	2.7	1		05/03/08 04:43	1330-20-7	
o-Xylene	**7.9**	ug/L	5.0	1.7	1		05/03/08 04:43	95-47-6	
4-Bromofluorobenzene (S)	103	%	87-109		1		05/03/08 04:43	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		05/03/08 04:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		05/03/08 04:43	17060-07-0	
Toluene-d8 (S)	103	%	70-120		1		05/03/08 04:43	2037-26-5	

Sample: S-11 **Lab ID: 9218315005** Collected: 04/25/08 15:35 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		05/03/08 05:01	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/03/08 05:01	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		05/03/08 05:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		05/03/08 05:01	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/03/08 05:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/03/08 05:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		05/03/08 05:01	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		05/03/08 05:01	95-47-6	
4-Bromofluorobenzene (S)	105	%	87-109		1		05/03/08 05:01	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		05/03/08 05:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		05/03/08 05:01	17060-07-0	
Toluene-d8 (S)	104	%	70-120		1		05/03/08 05:01	2037-26-5	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9218315

Sample: S-12 **Lab ID: 9218315006** Collected: 04/25/08 16:30 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		05/03/08 05:18	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/03/08 05:18	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		05/03/08 05:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		05/03/08 05:18	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/03/08 05:18	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/03/08 05:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		05/03/08 05:18	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		05/03/08 05:18	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		05/03/08 05:18	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		05/03/08 05:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		05/03/08 05:18	17060-07-0	
Toluene-d8 (S)	105	%	70-120		1		05/03/08 05:18	2037-26-5	

Sample: S-13 **Lab ID: 9218315007** Collected: 04/25/08 17:15 Received: 04/30/08 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		05/03/08 05:35	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		05/03/08 05:35	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		05/03/08 05:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		05/03/08 05:35	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		05/03/08 05:35	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/03/08 05:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		05/03/08 05:35	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		05/03/08 05:35	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		05/03/08 05:35	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		05/03/08 05:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		05/03/08 05:35	17060-07-0	
Toluene-d8 (S)	103	%	70-120		1		05/03/08 05:35	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9218315

QC Batch: MSV/3277
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 9218315001

METHOD BLANK: 108530
Associated Lab Samples: 9218315001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	ND	5.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	103	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	102	70-120	

LABORATORY CONTROL SAMPLE: 108531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	56.7	113	78-128	
Ethylbenzene	ug/L	50	56.5	113	80-127	
m&p-Xylene	ug/L	100	112	112	82-127	
Methyl-tert-butyl ether	ug/L	50	54.7	109	71-130	
Naphthalene	ug/L	50	52.5	105	52-136	
o-Xylene	ug/L	50	54.3	109	83-124	
Toluene	ug/L	50	57.1	114	76-126	
Xylene (Total)	ug/L	150	166	111	83-125	
1,2-Dichloroethane-d4 (S)	%			101	79-120	
4-Bromofluorobenzene (S)	%			98	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 108646 108647

Parameter	Units	9218391006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	66.7	66.2	132	131	74-136	.7	30	
Toluene	ug/L	ND	50	50	64.6	65.6	125	127	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						102	97	79-120			
4-Bromofluorobenzene (S)	%						100	103	87-109			
Dibromofluoromethane (S)	%						95	97	85-115			
Toluene-d8 (S)	%						99	102	70-120			

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9218315

QC Batch: MSV/3289 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9218315002, 9218315003, 9218315004, 9218315005, 9218315006, 9218315007

METHOD BLANK: 109065
Associated Lab Samples: 9218315002, 9218315003, 9218315004, 9218315005, 9218315006, 9218315007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	ND	5.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	101	79-120	
4-Bromofluorobenzene (S)	%	102	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	104	70-120	

LABORATORY CONTROL SAMPLE: 109066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	57.3	115	78-128	
Ethylbenzene	ug/L	50	55.6	111	80-127	
m&p-Xylene	ug/L	100	112	112	82-127	
Methyl-tert-butyl ether	ug/L	50	56.4	113	71-130	
Naphthalene	ug/L	50	63.2	126	52-136	
o-Xylene	ug/L	50	53.7	107	83-124	
Toluene	ug/L	50	57.0	114	76-126	
Xylene (Total)	ug/L	150	166	110	83-125	
1,2-Dichloroethane-d4 (S)	%			95	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 109091 109092

Parameter	Units	9218312005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	67.1	69.3	131	135	74-136	3	30	
Toluene	ug/L	ND	50	50	70.6	75.0	141	150	73-131	6	30	M1
1,2-Dichloroethane-d4 (S)	%						100	103	79-120			
4-Bromofluorobenzene (S)	%						105	103	87-109			
Dibromofluoromethane (S)	%						92	94	85-115			
Toluene-d8 (S)	%						103	102	70-120			

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9218315

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.

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ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1178278

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KLM Env.	Report To: Mark Keller	Attention:
Address: PoBox 2704	Copy To:	Company Name:
Goose Creek SC 29445		Address:
Email To: MKeller131@comcast.net	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Short Stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #: 824-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

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: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX/MN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-7		WT	G	9/25/08			1300											X			9218315001
2	S-8							1345														
3	S-9							1430														
4	S-10							1455														
5	S-11							1535														
6	S-12							1630														
7	S-13				X			1715											X			
8								1830														
9																						
10																						
11																						
12																						

9218315

9218315001

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		4/29/08	1700		04/30/08	0845	5.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

Pace Analytical

Sample Condition Upon Receipt

Client Name: KLM Project # 9218315

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☒ yes ☐ no

Optional	
Proj. Due Date:	N/A
Proj. Name:	N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 5.6 Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JEH 04/30/08

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. ON COC sample ID's Begin with 5 on Bottle lable Sample ID's Begin with B
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13. Also No Time or Dates on Bottle Lables but is on COC
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☒Yes ☐No ☐N/A	15. all vials have Too much Headspace also all
Trip Blank Present:	☐Yes ☐No ☒N/A	16. vials have soil in them
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N / N/A

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: [signature] Date: 4/30/08

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

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Huntersville, NC 28078
(704)875-9092

June 23, 2008

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9221380

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2008. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9221380

Charlotte Certification IDs
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs
North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9221380

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9221380001	**S-14**	Water	06/10/08 12:00	06/13/08 09:30
9221380002	**S-15**	Water	06/10/08 13:00	06/13/08 09:30
9221380003	**S-16**	Water	06/10/08 14:00	06/13/08 09:30
9221380004	**S-17**	Water	06/10/08 15:00	06/13/08 09:30
9221380005	**S-18**	Water	06/10/08 16:00	06/13/08 09:30

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9221380

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9221380001	**S-14**	EPA 8260	DJM	12
9221380002	**S-15**	EPA 8260	DJM	12
9221380003	**S-16**	EPA 8260	DJM	12
9221380004	**S-17**	EPA 8260	DJM	12
9221380005	**S-18**	EPA 8260	DJM	12

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9221380

Sample: S-14 **Lab ID: 9221380001** Collected: 06/10/08 12:00 Received: 06/13/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**19.3**	ug/L	5.0	1.2	1		06/19/08 22:16	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/19/08 22:16	100-41-4	
Methyl-tert-butyl ether	**6.4**	ug/L	5.0	2.0	1		06/19/08 22:16	1634-04-4	
Naphthalene	**9.7**	ug/L	5.0	2.9	1		06/19/08 22:16	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/19/08 22:16	108-88-3	
Xylene (Total)	**4.9J**	ug/L	15.0	4.4	1		06/19/08 22:16	1330-20-7	
m&p-Xylene	**3.3J**	ug/L	10.0	2.7	1		06/19/08 22:16	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		06/19/08 22:16	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		06/19/08 22:16	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		06/19/08 22:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		06/19/08 22:16	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		06/19/08 22:16	2037-26-5	

Sample: S-15 **Lab ID: 9221380002** Collected: 06/10/08 13:00 Received: 06/13/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/19/08 21:05	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/19/08 21:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/19/08 21:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/19/08 21:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/19/08 21:05	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		06/19/08 21:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/19/08 21:05	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		06/19/08 21:05	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		06/19/08 21:05	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		06/19/08 21:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		06/19/08 21:05	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		06/19/08 21:05	2037-26-5	

Sample: S-16 **Lab ID: 9221380003** Collected: 06/10/08 14:00 Received: 06/13/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	25.0	6.0	5		06/19/08 18:43	71-43-2	
Ethylbenzene	ND	ug/L	25.0	5.5	5		06/19/08 18:43	100-41-4	T3
Methyl-tert-butyl ether	ND	ug/L	25.0	10.0	5		06/19/08 18:43	1634-04-4	
Naphthalene	**33.5**	ug/L	25.0	14.5	5		06/19/08 18:43	91-20-3	
Toluene	ND	ug/L	25.0	9.0	5		06/19/08 18:43	108-88-3	
Xylene (Total)	ND	ug/L	75.0	22.0	5		06/19/08 18:43	1330-20-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9221380

Sample: S-16 **Lab ID: 9221380003** Collected: 06/10/08 14:00 Received: 06/13/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
m&p-Xylene	ND	ug/L	50.0	13.5	5		06/19/08 18:43	1330-20-7	
o-Xylene	ND	ug/L	25.0	8.5	5		06/19/08 18:43	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		5		06/19/08 18:43	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		5		06/19/08 18:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		5		06/19/08 18:43	17060-07-0	
Toluene-d8 (S)	98	%	70-120		5		06/19/08 18:43	2037-26-5	

Sample: S-17 **Lab ID: 9221380004** Collected: 06/10/08 15:00 Received: 06/13/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/19/08 21:29	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/19/08 21:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/19/08 21:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/19/08 21:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/19/08 21:29	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		06/19/08 21:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/19/08 21:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		06/19/08 21:29	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		06/19/08 21:29	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		06/19/08 21:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		06/19/08 21:29	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		06/19/08 21:29	2037-26-5	

Sample: S-18 **Lab ID: 9221380005** Collected: 06/10/08 16:00 Received: 06/13/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/19/08 21:53	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/19/08 21:53	100-41-4	
Methyl-tert-butyl ether	**3.1J**	ug/L	5.0	2.0	1		06/19/08 21:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/19/08 21:53	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/19/08 21:53	108-88-3	
Xylene (Total)	ND	ug/L	15.0	4.4	1		06/19/08 21:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/19/08 21:53	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		06/19/08 21:53	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		06/19/08 21:53	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		06/19/08 21:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		06/19/08 21:53	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		06/19/08 21:53	2037-26-5	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9221380

QC Batch: MSV/3762 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9221380001, 9221380002, 9221380003, 9221380004, 9221380005

METHOD BLANK: 130076
Associated Lab Samples: 9221380001, 9221380002, 9221380003, 9221380004, 9221380005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	ND	5.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	15.0	
1,2-Dichloroethane-d4 (S)	%	100	79-120	
4-Bromofluorobenzene (S)	%	99	87-109	
Dibromofluoromethane (S)	%	98	85-115	
Toluene-d8 (S)	%	100	70-120	

LABORATORY CONTROL SAMPLE: 130077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	59.5	119	78-128	
Ethylbenzene	ug/L	50	59.5	119	80-127	
m&p-Xylene	ug/L	100	118	118	82-127	
Methyl-tert-butyl ether	ug/L	50	64.7	129	71-130	
Naphthalene	ug/L	50	55.1	110	52-136	
o-Xylene	ug/L	50	57.9	116	83-124	
Toluene	ug/L	50	58.6	117	76-126	
Xylene (Total)	ug/L	150	176	117	83-125	
1,2-Dichloroethane-d4 (S)	%			101	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 130326 130327

Parameter	Units	9221380003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	61.2	61.8	118	119	74-136	.9	30	
Toluene	ug/L	ND	50	50	61.9	61.0	116	114	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						101	99	79-120			
4-Bromofluorobenzene (S)	%						100	99	87-109			
Dibromofluoromethane (S)	%						97	97	85-115			
Toluene-d8 (S)	%						99	100	70-120			

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9221380

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.

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ANALYTE QUALIFIERS

T3 Insufficient sample received from client to perform the analysis per EPA method requirements.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1175358

Section A — Required Client Information:

Company:	KLM ENV.
Address:	PO Box 2704
	Goose Creek SC 29445
Email To:	Mkeller131@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B — Required Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	824-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX/MTBE	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	S-14	WT	G	6/12/08			1200												X		9221380001
2	S-15	"	"	"			1300														002
3	S-16	"	"	"			1400														003
4	S-17	"	"	"			1500														004
5	S-18	"	"	"			1600												X		005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

9221380

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		6/12/08	1700		6/12/08	9:30	2.5	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

Pace Analytical

Sample Condition Upon Receipt

Client Name KLM Project # 9221380

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.5 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MC 6/13

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8. 2 vials on sample
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15. All w/ little dirt
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N / N/A

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: [signature] Date: 6/16/08

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

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-8 /

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 28.79 ft. FP 28.58

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Water Temp (°C)								
Turbidity (*)								
OVA Readings								
Salinity								
Dissolved Oxygen								

Remarks: Sample time No Sample taken - F.P.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 2R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 30.73 ft.

Length of Water Column (LWC=TWD-DGW) 9.27 ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 1.5 gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.5	3.0	5.0					
Time (military)	1154	1156	1158					
pH (s.u.)	7.09	7.10	7.10					
Specific Cond. (mS/cm)	.100	.103	.112					
Water Temp (°C)	22.3	22.0	22.1					
Turbidity (*)	999	999	999					
OVA Readings	—	—	—					
Salinity	0.00	0.00	0.00					
Dissolved Oxygen	2.18	2.33	2.63					

Remarks: Sample time 1200

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-3R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 30.74 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 40 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.5	4.0						
Time (military)	1145	1147						
pH (s.u.)	7.14	7.10						
Specific Cond. (mS/cm)	.103	.120						
Water Temp (°C)	22.0	21.8						
Turbidity (*)	999	999						
OVA Readings	—	—						
Salinity	0.00	0.00						
Dissolved Oxygen	2.27	1.95						

Remarks: Sample time 1150 Dry at 4

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08
Field Personnel W. Infinger, J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 4R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 30.20 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.75	3.5	5.0					
Time (military)	1125	1127	1129					
pH (s.u.)	7.17	7.20	7.14					
Specific Cond. (mS/cm)	.160	.156	.166					
Water Temp (°C)	20.7	20.5	20.9					
Turbidity (*)	999	999	999					
OVA Readings	–	–	–					
Salinity	0.00	0.00	0.00					
Dissolved Oxygen	1.50	1.54	1.27					

Remarks: Sample time 1130

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08
Field Personnel W. Infinger, J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 30.89 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.5	3	5					
Time (military)	1135	1137	1139					
pH (s.u.)	7.14	7.12	7.11					
Specific Cond. (mS/cm)	.081	.086	.090					
Water Temp (°C)	23.4	21.7	21.4					
Turbidity (*)	999	999	892					
OVA Readings	—	—	—					
Salinity	0.00	0.00	0.00					
Dissolved Oxygen	2.27	1.86	2.00					

Remarks: Sample time 1140

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08
Field Personnel W. Infinger, J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 29.70 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.75	3.0	4.0					
Time (military)	1117	1118	1119					
pH (s.u.)	7.13	7.18	7.19					
Specific Cond. (mS/cm)	.080	.092	.079					
Water Temp (°C)	20.6	20.2	20.3					
Turbidity (*)	999	874	879					
OVA Readings	—	—	—					
Salinity	0.00	0.00	0.00					
Dissolved Oxygen	1.27	1.44	1.77					

Remarks: Sample time 1120

Dup @ 40

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.63 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.75							
Time (military)	1107							
pH (s.u.)	7.64							
Specific Cond. (mS/cm)	.151							
Water Temp (°C)	21.1							
Turbidity (*)	999							
OVA Readings	—							
Salinity	0.00							
Dissolved Oxygen	1.78							

Remarks: Sample time 1110 Dry @ 3.0 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 27.81 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.75	4.0						
Time (military)	1023	1026						
pH (s.u.)	7.27	[illegible]						
Specific Cond. (mS/cm)	.075	.076						
Water Temp (°C)	22.1	22.3						
Turbidity (*)	999	990						
OVA Readings	—	—						
Salinity	0.00	0.00						
Dissolved Oxygen	3.12	5.65						

Remarks: Sample time 1030 Dry at 4' Sallow

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.46 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.5	3.5	4.5					
Time (military)	1044	1047	1049					
pH (s.u.)	7.42	7.38	7.36					
Specific Cond. (mS/cm)	.154	.138	.128					
Water Temp (°C)	20.9	20.0	20.0					
Turbidity (*)	999	999	999					
OVA Readings	—	—	—					
Salinity	0.00	0.00	0.00					
Dissolved Oxygen	1.06	1.27	1.62					

Remarks: Sample time 1050

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.65 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.75							
Time (military)	1057							
pH (s.u.)	7.18							
Specific Cond. (mS/cm)	.175							
Water Temp (°C)	21.5							
Turbidity (*)	999							
OVA Readings	+							
Salinity	0.00							
Dissolved Oxygen	1.63							

Remarks: Sample time 1100

Dry @ 2.0 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Date (mm/dd/yy) 7/21/08
Field Personnel W. Infinger, J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.70 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.75	3.50	4.50					
Time (military)	1037	1039	1040					
pH (s.u.)	7.22	7.01	7.08					
Specific Cond. (mS/cm)	.110	.106	.123					
Water Temp (°C)	21.6	21.5	21.8					
Turbidity (*)	999	999	999					
OVA Readings	—	—	—					
Salinity	0.00	0.00	0.00					
Dissolved Oxygen	1.51	1.45	1.59					

Remarks: Sample time 1040

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08
Field Personnel W. Infinger, J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.22 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	1.5	3.0	5.5					
Time (military)	1206	1208	1209					
pH (s.u.)	7.09	7.11	7.12					
Specific Cond. (mS/cm)	.043	.038	.038					
Water Temp (°C)	23.9	23.9	23.5					
Turbidity (*)	999	999	999					
OVA Readings	—	—	—					
Salinity	0	0	0					
Dissolved Oxygen	1.76	1.91	1.90					

Remarks: Sample time

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08
Field Personnel W. Infinger, J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 13

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.20 ft.

Length of Water Column (LWC=TWD-DGW) ____ft.

1 Csg. Volume (LWC*C)= ____ x .163 = 1.9 gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.0 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2.0	4.0						
Time (military)	1215	1217						
pH (s.u.)	7.19	7.21						
Specific Cond. (mS/cm)	.077	.085						
Water Temp (°C)	23.9	23.4						
Turbidity (*)	791	652						
OVA Readings	—	—						
Salinity	0	0						
Dissolved Oxygen	2.0	1.96						

Remarks: Sample time 1220 Dry @ 6.0 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.62 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2.0	4	6					
Time (military)	1225	1228	1230					
pH (s.u.)	7.16	7.18	7.13					
Specific Cond. (mS/cm)	.134	.115	.131					
Water Temp (°C)	24.2	24.1	23.3					
Turbidity (*)	999	999	999					
OVA Readings	-	-	-					
Salinity	0	0	0					
Dissolved Oxygen	1.54	2.00	1.97					

Remarks: Sample time 1230

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 32 ft.
Depth to GW (DWG) 22.54 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.75 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2.0	4.0						
Time (military)	1235	1238						
pH (s.u.)	7.05	6.95						
Specific Cond. (mS/cm)	.197	.202						
Water Temp (°C)	23.0	22.6						
Turbidity (*)	999	999						
OVA Readings	—	—						
Salinity	0	0						
Dissolved Oxygen	1.08	1.43						

Remarks: Sample time 1240 Dry @ 5.75 gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 39 ft.
Depth to GW (DWG) 28.69 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6					
Time (military)	1243	1246	1249					
pH (s.u.)	7.10	7.11	7.10					
Specific Cond. (mS/cm)	.128	.121	.121					
Water Temp (°C)	24.3	23.7	23.4					
Turbidity (*)	999	999	999					
OVA Readings	–	–	–					
Salinity	0	0	0					
Dissolved Oxygen	1.23	1.29	1.09					

Remarks: Sample time 1250

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 28.42 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2	4	6					
Time (military)	1254	1256	1259					
pH (s.u.)	7.11	7.13	7.14					
Specific Cond. (mS/cm)	.100	.097	.098					
Water Temp (°C)	25.5	24.8	24.4					
Turbidity (*)	894	966	961					
OVA Readings	–	–	–					
Salinity	0	0	0					
Dissolved Oxygen	1.41	1.57	1.04					

Remarks: Sample time 1300

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 7/21/08.
Field Personnel W. Infinger, J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 90 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- Dw-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 62 ft.
Depth to GW (DWG) 28.30 ft.

Length of Water Column (LWC=TWD-DGW) 33.70 ft.

1 Csg. Volume (LWC*C)= _____ x .163 = 5.49 gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	5.5							
Time (military)	1010							
pH (s.u.)	7.28							
Specific Cond. (mS/cm)	.357							
Water Temp (°C)	22.7							
Turbidity (*)	500							
OVA Readings	—							
Salinity	0.01							
Dissolved Oxygen	.75							

Remarks: Sample time 1020 DW @ 6.5 gallons

US Water Recovery

143

5364

Non-Hazardous Wastewater Manifest Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Phone ( )
Youngs #7 P O #:

3. Agent of Generator and Mailing Address: Phone (843) 870-4285
KLM Enviromental
Po Box 2704 Goose Creek P O #:

4. Transporter Company Name: Phone (843) 906-8759
EFR Tech
118 Springhall Dr. Suite E Goose Creek
Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address: Phone: (843) 797-8674
U S Water Recovery
435 Old Mt. Holly Rd. Fax: (843) 797-2126
Mt. Holly, SC 29445

Mailing Address: Phone: (843) 797-3111
U S Water Recovery
511 Old Mt. Holly Rd. Fax: (843) 797-0710
Goose Creek, SC 29445

7. Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number

8. U.S. DOT Desciption	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				281 gal
Youngs # 4				18 gal
Short Stop				83 gal
Buick Pantry 17				13 gal
Bob White El Cheapo				45 gal
				440

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Wayne Inglis Signature: Wayne Inglis Date: 7-30-08

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Jason Boots Signature: Jason Boots Date: 7-30-08

11. Discrepancy indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: David Ward Signature: David Ward Date: 7-30-08

White - Facility Yellow - Transporter Pink - Generator

4154

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Doc. No. | 2. Page 1 of

3. Generator's Name and Mailing Address
KLM ENVIRONMENTAL, INC PO3 2704
GOOSE CREEK, SC 29445
4. Generator's Phone (843 870 4285

5. Transporter 1 Company Name: KLM ENVIRONMENTAL | 6. US EPA ID Number | A. Transporter's Phone: 8433704285

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. SCOTCHMAN #52, 1611 HWY 17N SURFSIDE BEACH, SC DRILL CUTTINGS	4	55	4	
b. SHORT STOP, 613 MUSGROVE ST. CLINTON, SC DRILL CUTTINGS	17	55	17	
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 JIM A. PEURIFOY FOR KLM ENVIRONMENTAL, INC | Signature | Month 8 Day 01 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name JIM A. PEURIFOY FOR KLM ENVIRONMENTAL, INC. | Signature | Month 8 Day 01 Year 08

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 Scott Stephens | Signature Scott Stephens | Month 8 Day 1 Year 08

GENERATOR | TRANSPORTER | FACILITY

TRANSPORTER #1

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 4-28-16

Permit Number 05678

Project Manager Adam Looper

Name of Contractor KLM Env

UST Certification Number _____

Docket Number 40Tech

Scanned _____

Monitoring Report

Monitoring Report
Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

April 25th, 2016

Prepared for:

Mr. Adam Looper
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*
UST Contractor # 345

Project # 05143.11

SIGNATURE PAGE

This report entitled "**Monitoring Report**" for the **Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:

Mark L. Keller, PG
President

4/25/16
Date

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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina. A topographic map is provided as Figure 1 in Appendix A. The current property owner is listed as Arthur D Gast III at PO Box 556 Lavonia, GA 30553. The former UST owner responsible for the release reported on December 30th, 1991 is listed as Worsley Companies, Inc. located at 123 Shipyard Blvd. in Wilmington, NC 28412; phone 910-343-1991. KLM Environmental is the Certified UST Site Rehabilitation Contractor performing the work. KLM's address is PO Box 2704, Goose Creek, SC 29445, phone 843-870-4285. Pace Analytical Services, Inc. is the certified laboratory used to analyze the samples for this work. Pace Analytical Services main address is 9800 Kincey Ave., Suite 100, Huntersville, NC 28078, phone # 704-875-9092.

The release was reported on December 30th, 1991. The site has been undergoing assessment and monitoring activities since that date. This property is an in service gasoline dispensing station bordered by commercial and residential property.

The site is situated in the inner piedmont belt where the soil mainly consists of saprolite, sandy clays and clays that are underlined by medium to high grade metamorphic rock, such as granitic, biotitic and hornblendic rocks.

KLM Environmental conducted the majority of the previous assessment work. The Short Stop site was last sampled in November of 2015. Two 96 hour AFVR events and a sampling event were conducted in 2014. This report serves to document the current groundwater data at the Short Stop site.

2.0 GROUNDWATER INFORMATION

2.1 Piezometric Data

Figure 2 in Appendix A serves as the comprehensive site map showing the locations of the twenty-two shallow monitoring wells and two telescoping wells at the Short Stop site. Piezometric data collected during sampling activities for the monitoring wells associated with the release at the site can be found in Table 1. Monitoring well MW-22 could not be located during the recent sampling event. Historical piezometric data can be found in Appendix F for comparison. A piezometric map was created utilizing data collected from the shallow wells during the sampling event conducted on April 13th, 2016. The piezometric map can be found in Appendix A as Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	4/13/16	103.62	20-40	--	24.10	79.52
MW-2R	4/13/16	105.11	20-40	--	25.10	80.01
MW-3R*	4/13/16	105.67	20-40	25.60	27.15	**FP**
MW-4R	4/13/16	104.44	20-40	--	24.30	80.14
MW-5	4/13/16	105.62	20-40	--	24.40	81.22
MW-6	4/13/16	103.87	20-40	--	23.85	80.02
MW-7	4/13/16	102.55	20-40	--	22.75	79.8
MW-8	4/13/16	101.82	20-40	--	22.50	79.32
MW-9	4/13/16	102.03	20-40	--	23.30	78.73
MW-10	4/13/16	102.30	20-40	--	23.25	79.05
MW-11	4/13/16	100.45	20-40	--	23.70	76.75
MW-12	4/13/16	102.40	20-40	--	24.22	78.18
MW-13	4/13/16	101.91	20-40	--	24.12	77.79
MW-14	4/13/16	101.77	20-40	--	24.45	77.32
MW-15	4/13/16	94.60	11-31	--	19.27	75.33
MW-16	4/13/16	101.26	19-39	--	19.95	81.31
MW-17	4/13/16	101.69	20-40	--	24.72	76.97
MW-18	4/13/16	98.19	20-40	--	22.13	76.06
MW-19	4/13/16	106.86	20-40	--	24.23	82.63
MW-20	4/13/16	104.83	20-40	--	24.95	79.88
MW-21	4/13/16	102.66	20-40	--	23.20	79.46
MW-22*	4/13/16	101.23	20-40	--	CNL	CNL
DW-1*	4/13/16	102.23	58-63	--	23.80	78.43
DW-2*	4/13/16	94.62	55-60	--	21.74	72.88

* indicates wells not used to construct piezometric map. CNL = Could not locate

Depths to fluid measurements were collected relative to the top of casing for each well. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

2.2 Groundwater Sampling

During this sampling event, only the wells that did not bracket the water table were required to be purged. A minimum of three well volumes were purged from those monitoring wells prior to sample collection using an electric purge pump. The purge pump and hose were decontaminated between wells with a triple station rinse as outlined in the QAPP. Immediately after well purging was completed groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured with the Horiba U-52 (serial # W22MV13L) and recorded for each sample during well purging or at the time of collection. The Horiba U-52 (serial # W22MV13L) was calibrated with Horiba 100-4 standard solution prior to use and the calibration records are recorded on the calibration sheet which are included in Appendix B. Following collection in the field, the groundwater samples were packed on wet ice and submitted to Pace Analytical Services (SCDHEC Certification # 99006) and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, 1,2 DCA, 8 Oxygenates, and EDB. Analytical results are provided in Table 2 and 3 and in Appendix B. Historical groundwater analytical data is also provided in Appendix B along with the field sampling sheets. A map is provided as Figure 4 in Appendix A showing the sample results along with the well locations. A disposal manifest was not required as all purged monitoring wells were free of contaminants.

Sampling was performed on April 13th, 2016. Results for all wells sampled are as follows:

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NS
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS	NS
MW-1R	4/8/09	**8500**	**6440**	**871**	4620	**3170**	**<500**	**80.7**	**35.2**	NS
	1/5/10	**8460**	**9170**	**1400**	8790	**7420**	**635**	4.7	**41.7**	**322**
	12/1/10	**6120**	**2900**	349	3260	**4950**	**<290**	<5.0	**13.8**	**<130**
	5/6/14	**12900**	**20800**	**1020**	9750	**16600**	**553**	NS	**40.3**	**287**
	11/12/15	**5150**	**6510**	563	3640	**8530**	**289**	NS	**16.0**	**180**
	4/13/16	**7160**	**18700**	**1600**	**10600**	**6880**	**766**	NS	**17.1**	**114**
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02	NS
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS	NS
	4/8/09	**504**	97.8	41.9	361	16.2	<25.0	<5.0	<0.019	NS
	1/5/10	**777**	199	82.8	670	25.1	<25.0	<5.0	<0.020	<25.0
	12/1/10	**1080**	277	96.4	880	**61.5**	**<29.0**	<5.0	<0.019	**<13.0**
	5/6/14	**990**	233	134	1160	**94.7**	<50.0	NS	<0.020	<50.0
	11/12/15	**1650**	**1290**	450	2520	**202**	<50.0	NS	<0.020	<50.0
	4/13/16	**1760**	**2270**	610	3030	**168**	<25.0	NS	<0.020	<22.5
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02	NS
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS	NS
	4/8/09	**4380**	**18000**	**1420**	7470	**28400**	**<1000**	<5.0	<0.019	NS
	1/5/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	12/1/10	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	5/6/14	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/12/15	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	4/13/16	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02	NS
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS	NS
	4/8/09	**13.4**	<5.0	<5.0	3.6	6.4	<5.0	5.7	<0.019	NS
	1/5/10	**13.5**	<5.0	<5.0	6.1	5.8	<5.0	5.0	<0.019	<5.0
	12/1/10	**18.1**	1.9	<5.0	10.5	10.7	<5.0	4.7	<0.020	<5.0
	5/6/14	<5.0	5.2	2.1	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	**85.2**	<5.0	<5.0	34.6	8.0	4.6	NS	<0.020	<5.0
	4/13/16	**25.3**	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02	NS
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS	NS
	4/8/09	**931**	709	183	798	**53.2**	**<50.0**	13.5	<0.020	NS
	1/5/10	**1050**	841	242	1070	**49.6**	<25.0	<5.0	<0.019	<25.0
	12/1/10	**2410**	**2420**	483	2120	**82.7**	**<29.0**	<5.0	<0.020	**<13.0**
	5/6/14	**1720**	**1060**	414	2080	**921**	**48.8**	NS	<0.020	<100
	11/12/15	**3560**	**4400**	**1440**	6500	**3620**	**143**	NS	<0.020	<62.5
	4/13/16	**1770**	733	487	2110	**2290**	**73.9**	NS	<0.020	<36.0

Note: All results in µg/l. Numbers in bold exceed RBSL. CNL = Could Not Locate NS = Not Sampled

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	1.8	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	12/1/10	<5.0	2.0	<5.0	<10.0	<5.0	<5.0	11.2	<0.019	<5.0
	5/6/14	<5.0	6.5	2.8	17.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02	NS
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS	NS
	4/8/09	**8.1**	<5.0	<5.0	9.9	11.6	<5.0	<5.0	<0.020	NS
	1/5/10	4.1	<5.0	<5.0	2.8	3.7	<5.0	6.3	<0.020	<5.0
	12/1/10	**334**	<5.0	1.9	258	10.3	<5.0	8.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	**53.4**	<5.0	<5.0	12.8	30.8	<5.0	NS	<0.019	<5.0
	4/13/16	**27.7**	<1.6	<1.6	<2.7	2.6	<2.0	NS	<0.020	<1.8
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**	NS
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS	NS
	4/8/09	**1190**	<50.0	15.1	447	**638**	**<50.0**	12.5	**0.34**	NS
	1/5/10	**383**	8.8	16.0	204	**331**	<10.0	5.1	**0.10**	3.2
	12/1/10	**2030**	32.7	75.2	833	**1300**	<10.0	<5.0	<0.020	**14.3**
	5/6/14	**2500**	<100	<100	1080	**720**	<100	NS	**0.83**	<100
	11/12/15	**2010**	<125	142	795	**1520**	<125	NS	**0.33**	<125
	4/13/16	**3800**	<20.0	99.0	1940	**1800**	**40.2**	NS	**1.6**	**59.6**
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**59.1**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**28.2**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**36.7**	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.1	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02	NS
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.4	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.2	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	**58.6**	<5.0	<5.0	<10.0	20.9	<5.0	NS	<0.020	<5.0
	4/13/16	**45.5**	<1.6	<1.6	<2.7	14.3	<2.0	NS	<0.020	<1.8

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.3	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.5	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.9	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	4.1	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**	NS
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS	NS
	4/8/09	**152**	<5.0	<5.0	18.6	**163**	<5.0	<5.0	0.38	NS
	1/5/10	**775**	<5.0	<5.0	75.4	**463**	13.0	**16.1**	**0.94**	**8.9**
	12/1/10	<5.0	<5.0	<5.0	<10.0	5.9	<5.0	8.7	<0.020	<5.0
	5/6/14	**1030**	<5.0	1.8	104	**524**	**27.1**	NS	**0.46**	**13.9**
	11/12/15	**1790**	<50.0	<50.0	180	**1080**	**32.0**	NS	**0.89**	**21.6**
	4/13/16	<1.7	<1.6	<1.6	<2.7	**51.3**	<2.0	NS	<0.020	<1.8
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**21.4**	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**17.8**	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.6	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	3.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	2.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	8.7	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	**70.5**	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	**157**	<5.0	NS	<0.020	3.1
	4/13/16	<1.7	<1.6	<1.6	<2.7	35.1	<2.0	NS	<0.020	<1.8
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02	NS
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.4	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	7.2	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	6.7	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	8.7	<0.019	NS
	1/5/10	**5.8**	93.4	19.8	94.1	2.5	6.1	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	1.7	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
MW-20	4/8/09	**3940**	**16900**	690	5260	**5060**	**127**	5.5	**3.1**	NS
	1/5/10	**8500**	**54200**	**1530**	**14400**	**12000**	**408**	10.7	**29.1**	**188**
	12/1/10	**6890**	**37300**	**1640**	**11200**	**9600**	**<1450**	7.0	**18.2**	**<650**
	5/6/14	**7420**	**39200**	**2340**	**16500**	**7550**	**538**	NS	**29.0**	<1250
	11/12/15	**6320**	**35600**	**1950**	**17400**	**6260**	<2000	NS	**17.6**	<2000
	4/13/16	**3730**	**22400**	**1050**	**12200**	**3840**	**573**	NS	**10.5**	<90.0
MW-21	4/8/09	**3620**	<250	90.0	3390	**1360**	**<250**	NS	**0.75**	NS
	1/5/10	**5000**	54.4	298	9080	**3150**	**122**	<5.0	**0.64**	**85.3**
	12/1/10	**5830**	<250	121	7120	**1740**	**<145**	6.3	**0.19**	**<65.0**
	5/6/14	**5640**	<250	254	6820	**4700**	<250	NS	**0.92**	<250
	11/12/15	**3770**	<250	123	3290	**3820**	<250	NS	**0.53**	<250
	4/13/16	**1970**	<20.0	55.2	1450	**1680**	**33.6**	NS	**0.44**	**31.7**
MW-22	4/8/09	**414**	4.2	2.3	169	**45.2**	<5.0	**15.9**	<0.020	NS
	1/5/10	**6.8**	<5.0	<5.0	<10.0	<5.0	<5.0	**21.7**	0.039	<5.0
	12/1/10	**47.8**	<5.0	<5.0	8.1	<5.0	<5.0	4.9	<0.020	<5.0
	5/6/14	**138**	<5.0	2.0	39.2	**60.3**	<5.0	NS	<0.020	<5.0
	11/12/15	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
	4/13/16	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02	NS
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS	NS
	4/8/09	1.3	<5.0	<5.0	<10.0	2.7	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	<5.0
	12/1/10	2.0	<5.0	<5.0	4.3	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	4.3 j	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8

TABLE 2 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	Lead	EDB	1,2 DCA
RBSL	**--**	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**	**5**
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02	NS
	4/8/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NS
	1/5/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	12/1/10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	<5.0
	5/6/14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	11/12/15	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NS	<0.020	<5.0
	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
QA / QC Data										
Dup. 1 (MW-2R)	4/13/16	**1770**	**2480**	584	2920	**180**	<40.0	NS	<0.021	<36.0
Dup. 2 (MW-1R)	4/13/16	**7070**	**18100**	**1450**	8950	**4840**	**737**	NS	**12.9**	**95.8**
Field Blank	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8
Trip Blank	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	NS	<0.020	<1.8

TABLE 3
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	(ETBE)	(TAME)	(DIPE)	(TBA)	(TAA)	(TBF)	Ethanol	(ETBA)
RBSL	**--**	**47**	**128**	**150**	**1400**	**240**	**--**	**10000**	**--**
MW-1R	4/13/16	<180	<170	<85.0	**6550**	**6880**	<365	<6550	<1600
MW-2R	4/13/16	<45.0	<42.5	<21.2	<721	**1840**	<91.2	<1640	<401
MW-3R	4/13/16	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-5	4/13/16	<72.0	116	**151**	<1150	<1540	<146	<2620	<642
MW-6	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-7	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-8	4/13/16	<45.0	<42.5	29.2	**2270**	**12600**	<91.2	<1640	<401
MW-9	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-10	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-11	4/13/16	<3.6	<3.4	<1.7	<57.7	237	<7.3	<131	<32.1
MW-12	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-13	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-14	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-15	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-16	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-17	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-18	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-19	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
MW-20	4/13/16	<180	<170	98.5	<2880	<3840	<365	<6550	<1600
MW-21	4/13/16	<45.0	<42.5	<21.2	<721	**2790**	<91.2	<1640	<401
MW-22	4/13/16	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
DW-1*	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
DW-2*	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
QA / QC Analytical Data									
Dup. 1 (MW-2R)	4/13/16	<72.0	<68.0	<34.0	<1150	**2140**	<146	<2620	<642
Dup. 2 (MW-1R)	4/13/16	<90.0	<85.0	57.5	**6630**	**8750**	<182	<3280	<802
Field Blank	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1
Trip Blank	4/13/16	<3.6	<3.4	<1.7	<57.7	<76.8	<7.3	<131	<32.1

Note: All results in µg/l.

3.0 CONCLUSIONS

All data was reviewed thoroughly by KLM's Quality Assurance Officer and the data was determined to be valid. Free product was detected in monitoring well MW-3R at a thickness of 1.55 feet during the sampling event performed on April 23rd, 2016. The laboratory reported contamination above Risk Based Screening Levels (RBSLs) in monitoring wells MW-1R, MW-2R, MW-4R, MW-5, MW-7, MW-8, MW-11, MW-14, MW-20 and MW-21. The current groundwater data indicates the contaminant levels have generally decreased at the site, especially off site. Contaminant levels have increased in the source zone. KLM believes the AFVR activities at the site have influenced the contaminant levels enough to have made a significant impact in the migrating plume. The areas to the north and east of MW-3R and MW-5 remain undefined.

KLM recommends performing a series of long duration Aggressive Fluid Vapor Recovery (AFVR) events on monitoring well MW-3R in an effort to remove free product from the site. Additional assessment to the north and east of MW-3R and MW-5 will be required to define the plume horizontally. A comprehensive sampling event should follow the assessment and AFVR events.

4.0 REFERENCES

KLM Environmental, LLC, *Monitoring Report*, November, 2015.

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KLM Environmental, LLC, *Tier II Assessment*, August, 2008.

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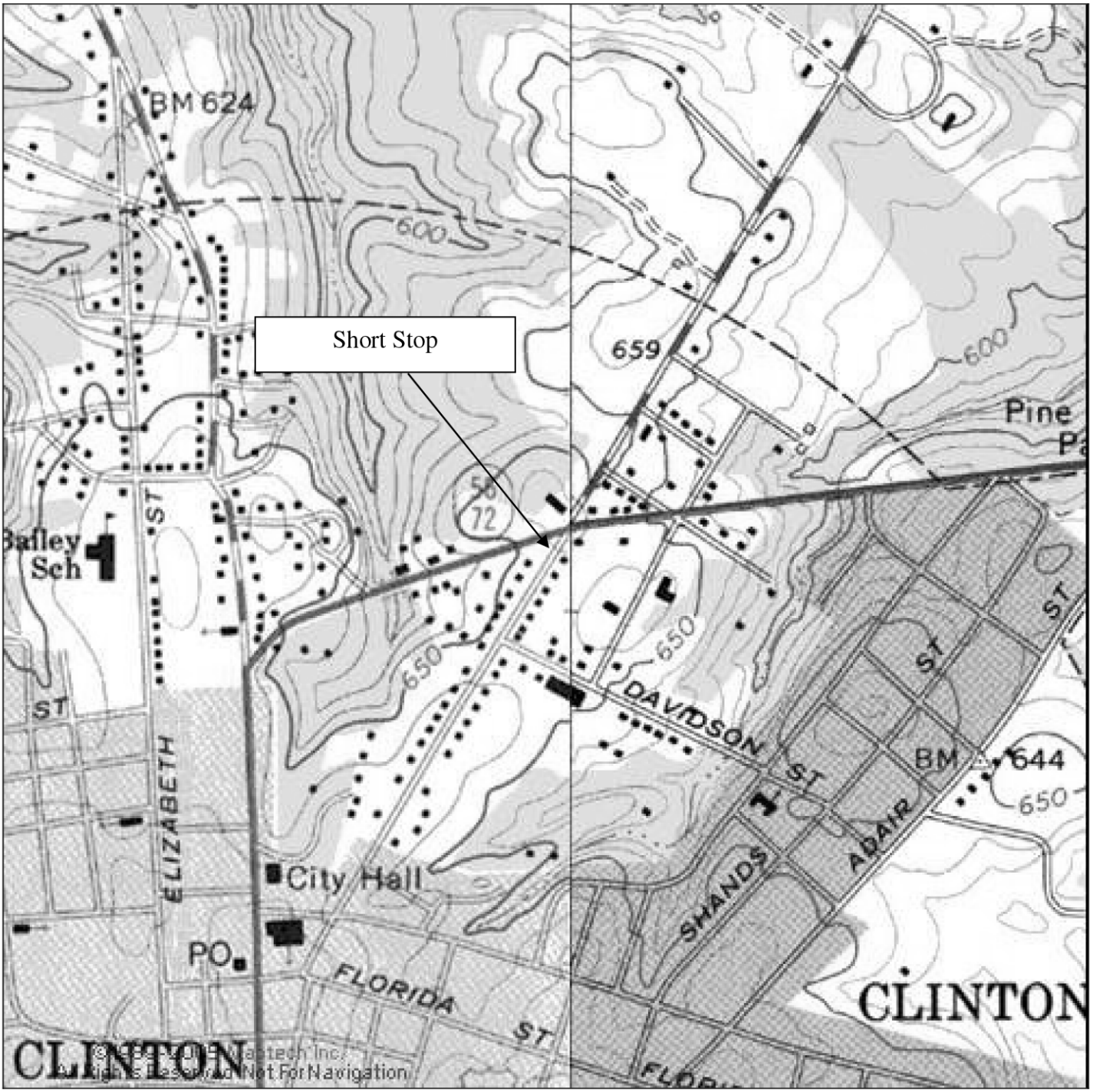
South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Quality Assurance Program Plan 3.0,* May, 2015.

APPENDIX A

Figures



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Phase I· Phase II· Underground Storage Tanks·Soil & Water Sampling· Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

KLM Environmental, LLC

Phase I- Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1R	4/13/16	103.62	20-40	--	24.10	79.52
MW-2R	4/13/16	105.11	20-40	--	25.10	80.01
MW-3R*	4/13/16	105.67	20-40	25.60	27.15	FP
MW-4R	4/13/16	104.44	20-40	--	24.30	80.14
MW-5	4/13/16	105.62	20-40	--	24.40	81.22
MW-6	4/13/16	103.87	20-40	--	23.85	80.02
MW-7	4/13/16	102.55	20-40	--	22.75	79.8
MW-8	4/13/16	101.82	20-40	--	22.50	79.32
MW-9	4/13/16	102.03	20-40	--	23.30	78.73
MW-10	4/13/16	102.30	20-40	--	23.25	79.05
MW-11	4/13/16	100.45	20-40	--	23.70	76.75
MW-12	4/13/16	102.40	20-40	--	24.22	78.18
MW-13	4/13/16	101.91	20-40	--	24.12	77.79
MW-14	4/13/16	101.77	20-40	--	24.45	77.32
MW-15	4/13/16	94.60	11-31	--	19.27	75.33
MW-16	4/13/16	101.26	19-39	--	19.95	81.31
MW-17	4/13/16	101.69	20-40	--	24.72	76.97
MW-18	4/13/16	98.19	20-40	--	22.13	76.06
MW-19	4/13/16	106.86	20-40	--	24.23	82.63
MW-20	4/13/16	104.83	20-40	--	24.95	79.88
MW-21	4/13/16	102.66	20-40	--	23.20	79.46
MW-22*	4/13/16	101.23	20-40	--	CNL	CNL
DW-1*	4/13/16	102.23	58-63	--	23.80	78.43
DW-2*	4/13/16	94.62	55-60	--	21.74	72.88

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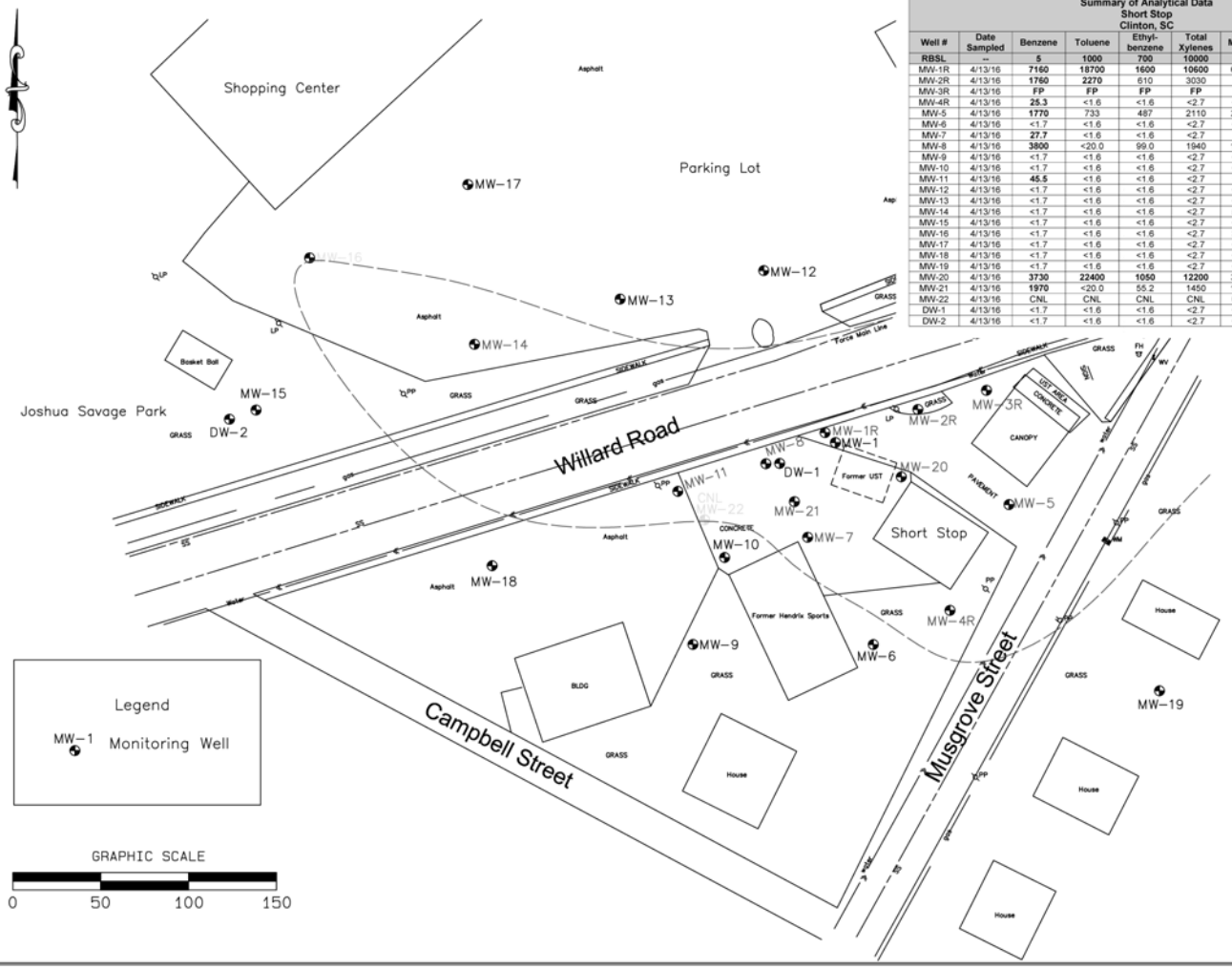
Phase I-Phase II-Underground Storage Tanks Soil & Water Sampling-Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 2
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	1,2 DCA
RBSL	--	5	1000	700	10000	40	25	0.05	5
MW-1R	4/13/16	**7160**	**18700**	**1600**	**10600**	**6880**	**766**	**17.1**	**114**
MW-2R	4/13/16	**1760**	**2270**	610	3030	**168**	<25.0	<0.020	<22.5
MW-3R	4/13/16	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-4R	4/13/16	**25.3**	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-5	4/13/16	**1770**	733	487	2110	**2290**	**73.9**	<0.020	<36.0
MW-6	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-7	4/13/16	**27.7**	<1.6	<1.6	<2.7	2.6	<2.0	<0.020	<1.8
MW-8	4/13/16	**3800**	<20.0	99.0	1940	**1800**	**40.2**	**1.6**	**59.6**
MW-9	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-10	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-11	4/13/16	**45.5**	<1.6	<1.6	<2.7	14.3	<2.0	<0.020	<1.8
MW-12	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-13	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-14	4/13/16	<1.7	<1.6	<1.6	<2.7	**51.3**	<2.0	<0.020	<1.8
MW-15	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-16	4/13/16	<1.7	<1.6	<1.6	<2.7	35.1	<2.0	<0.020	<1.8
MW-17	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-18	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-19	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
MW-20	4/13/16	**3730**	**22400**	**1050**	**12200**	**3840**	**573**	**10.5**	<90.0
MW-21	4/13/16	**1970**	<20.0	55.2	1450	**1680**	**33.6**	**0.44**	**31.7**
MW-22	4/13/16	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
DW-1	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8
DW-2	4/13/16	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8



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Phase I- Phase II Underground Storage Tanks Soil & Water Sampling- Well Installation

FIGURE 4
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

APPENDIX B

Laboratory Data / Sampling Sheets / Historical Well Data

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

April 21, 2016

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: Short Stop
Pace Project No.: 92294071

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted 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,

Trey Carter
trey.carter@pacelabs.com
Project Manager

Enclosures

cc: Micah Bennett, KLM

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Short Stop
Pace Project No.: 92294071

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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(704)875-9092

SAMPLE SUMMARY

Project: Short Stop
Pace Project No.: 92294071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92294071001	MW-1R	Water	04/13/16 17:30	04/15/16 09:30
92294071002	MW-2R	Water	04/13/16 17:50	04/15/16 09:30
92294071003	MW-4R	Water	04/13/16 16:10	04/15/16 09:30
92294071004	MW-5	Water	04/13/16 16:50	04/15/16 09:30
92294071005	MW-6	Water	04/13/16 15:50	04/15/16 09:30
92294071006	MW-7	Water	04/13/16 14:20	04/15/16 09:30
92294071007	MW-8	Water	04/13/16 15:10	04/15/16 09:30
92294071008	MW-9	Water	04/13/16 13:10	04/15/16 09:30
92294071009	MW-10	Water	04/13/16 13:30	04/15/16 09:30
92294071010	MW-11	Water	04/13/16 14:00	04/15/16 09:30
92294071011	MW-12	Water	04/13/16 12:30	04/15/16 09:30
92294071012	MW-13	Water	04/13/16 12:10	04/15/16 09:30
92294071013	MW-14	Water	04/13/16 11:50	04/15/16 09:30
92294071014	MW-15	Water	04/13/16 10:50	04/15/16 09:30
92294071015	MW-16	Water	04/13/16 11:10	04/15/16 09:30
92294071016	MW-17	Water	04/13/16 11:30	04/15/16 09:30
92294071017	MW-18	Water	04/13/16 12:50	04/15/16 09:30
92294071018	MW-19	Water	04/13/16 16:30	04/15/16 09:30
92294071019	MW-20	Water	04/13/16 17:10	04/15/16 09:30
92294071020	MW-21	Water	04/13/16 14:50	04/15/16 09:30
92294071021	DW-1	Water	04/13/16 15:30	04/15/16 09:30
92294071022	DW-2	Water	04/13/16 10:30	04/15/16 09:30
92294071023	DUP-1	Water	04/13/16 17:55	04/15/16 09:30
92294071024	DUP-2	Water	04/13/16 17:35	04/15/16 09:30
92294071025	FIELD BLANK	Water	04/13/16 18:00	04/15/16 09:30
92294071026	TRIP BLANK	Water	04/13/16 00:00	04/15/16 09:30

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SAMPLE ANALYTE COUNT

Project: Short Stop
Pace Project No.: 92294071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92294071001	MW-1R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071002	MW-2R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071003	MW-4R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071004	MW-5	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071005	MW-6	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071006	MW-7	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071007	MW-8	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071008	MW-9	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071009	MW-10	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071010	MW-11	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071011	MW-12	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071012	MW-13	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071013	MW-14	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071014	MW-15	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071015	MW-16	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071016	MW-17	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071017	MW-18	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071018	MW-19	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071019	MW-20	EPA 8011	HSK	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: Short Stop
Pace Project No.: 92294071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	CCL	20	PASI-C
92294071020	**MW-21**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071021	**DW-1**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071022	**DW-2**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071023	**DUP-1**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071024	**DUP-2**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071025	**FIELD BLANK**	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92294071026	**TRIP BLANK**	EPA 8260	CCL	20	PASI-C

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SUMMARY OF DETECTION

Project: Short Stop
Pace Project No.: 92294071

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92294071001	**MW-1R**					
EPA 8011	1,2-Dibromoethane (EDB)	17.1	ug/L	0.51	04/19/16 16:21	M1
EPA 8260	tert-Amyl Alcohol	6880	ug/L	5000	04/18/16 00:03	
EPA 8260	Benzene	7160	ug/L	250	04/18/16 00:03	
EPA 8260	tert-Butyl Alcohol	6550	ug/L	5000	04/18/16 00:03	
EPA 8260	1,2-Dichloroethane	114J	ug/L	250	04/18/16 00:03	
EPA 8260	Ethylbenzene	1600	ug/L	250	04/18/16 00:03	
EPA 8260	Methyl-tert-butyl ether	6880	ug/L	250	04/18/16 00:03	
EPA 8260	Naphthalene	766	ug/L	250	04/18/16 00:03	
EPA 8260	Toluene	18700	ug/L	625	04/18/16 15:43	
EPA 8260	Xylene (Total)	10600	ug/L	500	04/18/16 00:03	
EPA 8260	m&p-Xylene	6830	ug/L	500	04/18/16 00:03	
EPA 8260	o-Xylene	3760	ug/L	250	04/18/16 00:03	
92294071002	**MW-2R**					
EPA 8260	tert-Amyl Alcohol	1840	ug/L	1250	04/18/16 07:27	
EPA 8260	Benzene	1760	ug/L	62.5	04/18/16 07:27	
EPA 8260	Ethylbenzene	610	ug/L	62.5	04/18/16 07:27	
EPA 8260	Methyl-tert-butyl ether	168	ug/L	62.5	04/18/16 07:27	
EPA 8260	Toluene	2270	ug/L	62.5	04/18/16 07:27	
EPA 8260	Xylene (Total)	3030	ug/L	125	04/18/16 07:27	
EPA 8260	m&p-Xylene	2470	ug/L	125	04/18/16 07:27	
EPA 8260	o-Xylene	561	ug/L	62.5	04/18/16 07:27	
92294071003	**MW-4R**					
EPA 8260	Benzene	25.3	ug/L	5.0	04/17/16 21:46	
EPA 8260	m&p-Xylene	9.2J	ug/L	10.0	04/17/16 21:46	
92294071004	**MW-5**					
EPA 8260	tert-Amylmethyl ether	116J	ug/L	200	04/18/16 21:42	
EPA 8260	Benzene	1770	ug/L	100	04/18/16 21:42	
EPA 8260	Diisopropyl ether	151	ug/L	100	04/18/16 21:42	
EPA 8260	Ethylbenzene	487	ug/L	100	04/18/16 21:42	
EPA 8260	Methyl-tert-butyl ether	2290	ug/L	100	04/18/16 21:42	
EPA 8260	Naphthalene	73.9J	ug/L	100	04/18/16 21:42	
EPA 8260	Toluene	733	ug/L	100	04/18/16 21:42	
EPA 8260	Xylene (Total)	2110	ug/L	200	04/18/16 21:42	
EPA 8260	m&p-Xylene	1540	ug/L	200	04/18/16 21:42	
EPA 8260	o-Xylene	574	ug/L	100	04/18/16 21:42	
92294071006	**MW-7**					
EPA 8260	Benzene	27.7	ug/L	5.0	04/18/16 03:45	
EPA 8260	Methyl-tert-butyl ether	2.6J	ug/L	5.0	04/18/16 03:45	
EPA 8260	m&p-Xylene	5.9J	ug/L	10.0	04/18/16 03:45	
EPA 8260	o-Xylene	1.9J	ug/L	5.0	04/18/16 03:45	
92294071007	**MW-8**					
EPA 8011	1,2-Dibromoethane (EDB)	1.6	ug/L	0.079	04/19/16 16:01	
EPA 8260	tert-Amyl Alcohol	12600	ug/L	1250	04/18/16 08:01	
EPA 8260	Benzene	3800	ug/L	125	04/18/16 16:35	

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Short Stop
Pace Project No.: 92294071

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92294071007	**MW-8**					
EPA 8260	tert-Butyl Alcohol	2270	ug/L	1250	04/18/16 08:01	
EPA 8260	1,2-Dichloroethane	59.6J	ug/L	62.5	04/18/16 08:01	
EPA 8260	Diisopropyl ether	29.2J	ug/L	62.5	04/18/16 08:01	
EPA 8260	Ethylbenzene	99.0	ug/L	62.5	04/18/16 08:01	
EPA 8260	Methyl-tert-butyl ether	1800	ug/L	62.5	04/18/16 08:01	
EPA 8260	Naphthalene	40.2J	ug/L	62.5	04/18/16 08:01	
EPA 8260	Xylene (Total)	1940	ug/L	125	04/18/16 08:01	
EPA 8260	m&p-Xylene	1610	ug/L	125	04/18/16 08:01	
EPA 8260	o-Xylene	323	ug/L	62.5	04/18/16 08:01	
92294071010	**MW-11**					
EPA 8260	tert-Amyl Alcohol	237	ug/L	100	04/18/16 04:36	
EPA 8260	Benzene	45.5	ug/L	5.0	04/18/16 04:36	
EPA 8260	Methyl-tert-butyl ether	14.3	ug/L	5.0	04/18/16 04:36	
EPA 8260	m&p-Xylene	4.1J	ug/L	10.0	04/18/16 04:36	
EPA 8260	o-Xylene	2.1J	ug/L	5.0	04/18/16 04:36	
92294071013	**MW-14**					
EPA 8260	Methyl-tert-butyl ether	51.3	ug/L	5.0	04/18/16 21:08	
92294071015	**MW-16**					
EPA 8260	Methyl-tert-butyl ether	35.1	ug/L	5.0	04/18/16 09:27	
92294071019	**MW-20**					
EPA 8011	1,2-Dibromoethane (EDB)	10.5	ug/L	0.41	04/19/16 15:41	
EPA 8260	Benzene	3730	ug/L	250	04/18/16 08:35	
EPA 8260	Diisopropyl ether	98.5J	ug/L	250	04/18/16 08:35	
EPA 8260	Ethylbenzene	1050	ug/L	250	04/18/16 08:35	
EPA 8260	Methyl-tert-butyl ether	3840	ug/L	250	04/18/16 08:35	
EPA 8260	Naphthalene	573	ug/L	250	04/18/16 08:35	
EPA 8260	Toluene	22400	ug/L	625	04/18/16 16:52	
EPA 8260	Xylene (Total)	12200	ug/L	500	04/18/16 08:35	
EPA 8260	m&p-Xylene	7730	ug/L	500	04/18/16 08:35	
EPA 8260	o-Xylene	4480	ug/L	250	04/18/16 08:35	
92294071020	**MW-21**					
EPA 8011	1,2-Dibromoethane (EDB)	0.44	ug/L	0.021	04/19/16 00:35	
EPA 8260	tert-Amyl Alcohol	2790	ug/L	1250	04/18/16 21:59	
EPA 8260	Benzene	1970	ug/L	62.5	04/18/16 21:59	
EPA 8260	1,2-Dichloroethane	31.7J	ug/L	62.5	04/18/16 21:59	
EPA 8260	Ethylbenzene	55.2J	ug/L	62.5	04/18/16 21:59	
EPA 8260	Methyl-tert-butyl ether	1680	ug/L	62.5	04/18/16 21:59	
EPA 8260	Naphthalene	33.6J	ug/L	62.5	04/18/16 21:59	
EPA 8260	Xylene (Total)	1450	ug/L	125	04/18/16 21:59	
EPA 8260	m&p-Xylene	1030	ug/L	125	04/18/16 21:59	
EPA 8260	o-Xylene	416	ug/L	62.5	04/18/16 21:59	
92294071023	**DUP-1**					
EPA 8260	tert-Amyl Alcohol	2140	ug/L	2000	04/18/16 22:16	
EPA 8260	Benzene	1770	ug/L	100	04/18/16 22:16	

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SUMMARY OF DETECTION

Project: Short Stop
Pace Project No.: 92294071

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92294071023	**DUP-1**					
EPA 8260	Ethylbenzene	584	ug/L	100	04/18/16 22:16	
EPA 8260	Methyl-tert-butyl ether	180	ug/L	100	04/18/16 22:16	
EPA 8260	Toluene	2480	ug/L	100	04/18/16 22:16	
EPA 8260	Xylene (Total)	2920	ug/L	200	04/18/16 22:16	
EPA 8260	m&p-Xylene	2350	ug/L	200	04/18/16 22:16	
EPA 8260	o-Xylene	576	ug/L	100	04/18/16 22:16	
92294071024	**DUP-2**					
EPA 8011	1,2-Dibromoethane (EDB)	12.9	ug/L	0.51	04/19/16 15:20	
EPA 8260	tert-Amyl Alcohol	8750	ug/L	2500	04/17/16 19:41	
EPA 8260	Benzene	7070	ug/L	500	04/18/16 16:52	
EPA 8260	tert-Butyl Alcohol	6630	ug/L	2500	04/17/16 19:41	
EPA 8260	1,2-Dichloroethane	95.8J	ug/L	125	04/17/16 19:41	
EPA 8260	Diisopropyl ether	57.5J	ug/L	125	04/17/16 19:41	
EPA 8260	Ethylbenzene	1450	ug/L	125	04/17/16 19:41	
EPA 8260	Methyl-tert-butyl ether	4840	ug/L	500	04/18/16 16:52	
EPA 8260	Naphthalene	737	ug/L	125	04/17/16 19:41	
EPA 8260	Toluene	18100	ug/L	500	04/18/16 16:52	
EPA 8260	Xylene (Total)	8950	ug/L	250	04/17/16 19:41	
EPA 8260	m&p-Xylene	5820	ug/L	250	04/17/16 19:41	
EPA 8260	o-Xylene	3130	ug/L	125	04/17/16 19:41	

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92294071

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: KLM
Date: April 21, 2016

General Information:
25 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/42006

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- MS (Lab ID: 1712681)
  - 1-Chloro-2-bromopropane (S)
- MSD (Lab ID: 1712682)
  - 1-Chloro-2-bromopropane (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- MW-5 (Lab ID: 92294071004)
  - 1-Chloro-2-bromopropane (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-1R (Lab ID: 92294071001)
  - 1-Chloro-2-bromopropane (S)

QC Batch: OEXT/42007

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- DUP-1 (Lab ID: 92294071023)
  - 1-Chloro-2-bromopropane (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DUP-2 (Lab ID: 92294071024)
  - 1-Chloro-2-bromopropane (S)
- MW-20 (Lab ID: 92294071019)
  - 1-Chloro-2-bromopropane (S)

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92294071

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: KLM
Date: April 21, 2016

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/42006

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92294071001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1712681)
  - 1,2-Dibromoethane (EDB)
- MSD (Lab ID: 1712682)
  - 1,2-Dibromoethane (EDB)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92294071

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: April 21, 2016

General Information:
26 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/36441

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1713235)
  - tert-Butyl Alcohol

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/36423

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92294071005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1712623)
  - tert-Amyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1712623)
  - tert-Butyl Formate

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92294071

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: April 21, 2016

QC Batch: MSV/36425

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92294071017

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1712630)
  - Ethanol
  - tert-Amyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1712630)
  - tert-Butyl Formate

QC Batch: MSV/36426

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92294098002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1712642)
  - 1,2-Dichloroethane
  - Ethanol
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1712642)
  - tert-Butyl Formate

QC Batch: MSV/36441

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92293508022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1713236)
  - 3,3-Dimethyl-1-Butanol
  - Ethanol
  - tert-Amyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1713236)
  - tert-Butyl Formate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: MSV/36426

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1712643)
  - tert-Amyl Alcohol

Additional Comments:

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PROJECT NARRATIVE

Project: Short Stop
Pace Project No.: 92294071

Method: **EPA 8260**
Description: 8260 MSV
Client: KLM
Date: April 21, 2016

Analyte Comments:

QC Batch: MSV/36426

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1712642)
  - Benzene
  - Ethylbenzene
  - Methyl-tert-butyl ether
  - m&p-Xylene
  - Naphthalene
  - o-Xylene
  - tert-Amyl Alcohol
  - Toluene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-1R **Lab ID: 92294071001** Collected: 04/13/16 17:30 Received: 04/15/16 09:30 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)	**17.1**	ug/L	0.51	0.51	25	04/18/16 11:42	04/19/16 16:21	106-93-4	M1
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	04/18/16 11:42	04/19/16 16:21	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**6880**	ug/L	5000	3840	50		04/18/16 00:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		04/18/16 00:03	994-05-8	
Benzene	**7160**	ug/L	250	85.0	50		04/18/16 00:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		04/18/16 00:03	624-95-3	
tert-Butyl Alcohol	**6550**	ug/L	5000	2880	50		04/18/16 00:03	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		04/18/16 00:03	762-75-4	
1,2-Dichloroethane	**114J**	ug/L	250	90.0	50		04/18/16 00:03	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		04/18/16 00:03	108-20-3	
Ethanol	ND	ug/L	10000	6550	50		04/18/16 00:03	64-17-5	
Ethylbenzene	**1600**	ug/L	250	80.0	50		04/18/16 00:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		04/18/16 00:03	637-92-3	
Methyl-tert-butyl ether	**6880**	ug/L	250	85.0	50		04/18/16 00:03	1634-04-4	
Naphthalene	**766**	ug/L	250	100	50		04/18/16 00:03	91-20-3	
Toluene	**18700**	ug/L	625	200	125		04/18/16 15:43	108-88-3	
Xylene (Total)	**10600**	ug/L	500	135	50		04/18/16 00:03	1330-20-7	
m&p-Xylene	**6830**	ug/L	500	155	50		04/18/16 00:03	179601-23-1	
o-Xylene	**3760**	ug/L	250	80.0	50		04/18/16 00:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		50		04/18/16 00:03	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		50		04/18/16 00:03	17060-07-0	
Toluene-d8 (S)	100	%	70-130		50		04/18/16 00:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-2R **Lab ID: 92294071002** Collected: 04/13/16 17:50 Received: 04/15/16 09:30 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	04/18/16 11:42	04/18/16 16:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	04/18/16 11:42	04/18/16 16:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1840**	ug/L	1250	960	12.5		04/18/16 07:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		04/18/16 07:27	994-05-8	
Benzene	**1760**	ug/L	62.5	21.2	12.5		04/18/16 07:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		04/18/16 07:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		04/18/16 07:27	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		04/18/16 07:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		04/18/16 07:27	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		04/18/16 07:27	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		04/18/16 07:27	64-17-5	
Ethylbenzene	**610**	ug/L	62.5	20.0	12.5		04/18/16 07:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		04/18/16 07:27	637-92-3	
Methyl-tert-butyl ether	**168**	ug/L	62.5	21.2	12.5		04/18/16 07:27	1634-04-4	
Naphthalene	ND	ug/L	62.5	25.0	12.5		04/18/16 07:27	91-20-3	
Toluene	**2270**	ug/L	62.5	20.0	12.5		04/18/16 07:27	108-88-3	
Xylene (Total)	**3030**	ug/L	125	33.8	12.5		04/18/16 07:27	1330-20-7	
m&p-Xylene	**2470**	ug/L	125	38.8	12.5		04/18/16 07:27	179601-23-1	
o-Xylene	**561**	ug/L	62.5	20.0	12.5		04/18/16 07:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		04/18/16 07:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		12.5		04/18/16 07:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130		12.5		04/18/16 07:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-4R **Lab ID: 92294071003** Collected: 04/13/16 16:10 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 17:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	04/18/16 11:43	04/18/16 17:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/17/16 21:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/17/16 21:46	994-05-8	
Benzene	**25.3**	ug/L	5.0	1.7	1		04/17/16 21:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/17/16 21:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/17/16 21:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/17/16 21:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/17/16 21:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/17/16 21:46	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/17/16 21:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/17/16 21:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/17/16 21:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/17/16 21:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/17/16 21:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/17/16 21:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/16 21:46	1330-20-7	
m&p-Xylene	**9.2J**	ug/L	10.0	3.1	1		04/17/16 21:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/17/16 21:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/17/16 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/17/16 21:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/17/16 21:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-5 **Lab ID: 92294071004** Collected: 04/13/16 16:50 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 17:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	141	%	60-140		1	04/18/16 11:43	04/18/16 17:34	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		04/18/16 21:42	75-85-4	
tert-Amylmethyl ether	**116J**	ug/L	200	68.0	20		04/18/16 21:42	994-05-8	
Benzene	**1770**	ug/L	100	34.0	20		04/18/16 21:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		04/18/16 21:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		04/18/16 21:42	75-65-0	L2
tert-Butyl Formate	ND	ug/L	1000	146	20		04/18/16 21:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		04/18/16 21:42	107-06-2	
Diisopropyl ether	**151**	ug/L	100	34.0	20		04/18/16 21:42	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		04/18/16 21:42	64-17-5	
Ethylbenzene	**487**	ug/L	100	32.0	20		04/18/16 21:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		04/18/16 21:42	637-92-3	
Methyl-tert-butyl ether	**2290**	ug/L	100	34.0	20		04/18/16 21:42	1634-04-4	
Naphthalene	**73.9J**	ug/L	100	40.0	20		04/18/16 21:42	91-20-3	
Toluene	**733**	ug/L	100	32.0	20		04/18/16 21:42	108-88-3	
Xylene (Total)	**2110**	ug/L	200	54.0	20		04/18/16 21:42	1330-20-7	
m&p-Xylene	**1540**	ug/L	200	62.0	20		04/18/16 21:42	179601-23-1	
o-Xylene	**574**	ug/L	100	32.0	20		04/18/16 21:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		20		04/18/16 21:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		20		04/18/16 21:42	17060-07-0	
Toluene-d8 (S)	101	%	70-130		20		04/18/16 21:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-6 **Lab ID: 92294071005** Collected: 04/13/16 15:50 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 17:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	04/18/16 11:43	04/18/16 17:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/17/16 22:20	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/17/16 22:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/17/16 22:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/17/16 22:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/17/16 22:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/17/16 22:20	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/17/16 22:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/17/16 22:20	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/17/16 22:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/17/16 22:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/17/16 22:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/17/16 22:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/17/16 22:20	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/17/16 22:20	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/16 22:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/17/16 22:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/17/16 22:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/17/16 22:20	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/17/16 22:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/17/16 22:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-7 **Lab ID: 92294071006** Collected: 04/13/16 14:20 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 18:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/18/16 11:43	04/18/16 18:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 03:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 03:45	994-05-8	
Benzene	**27.7**	ug/L	5.0	1.7	1		04/18/16 03:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 03:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 03:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 03:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 03:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 03:45	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 03:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 03:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 03:45	637-92-3	
Methyl-tert-butyl ether	**2.6J**	ug/L	5.0	1.7	1		04/18/16 03:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 03:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 03:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 03:45	1330-20-7	
m&p-Xylene	**5.9J**	ug/L	10.0	3.1	1		04/18/16 03:45	179601-23-1	
o-Xylene	**1.9J**	ug/L	5.0	1.6	1		04/18/16 03:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/18/16 03:45	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/18/16 03:45	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/18/16 03:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-8 **Lab ID: 92294071007** Collected: 04/13/16 15:10 Received: 04/15/16 09:30 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)	**1.6**	ug/L	0.079	0.079	4	04/18/16 11:43	04/19/16 16:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	60-140		4	04/18/16 11:43	04/19/16 16:01	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**12600**	ug/L	1250	960	12.5		04/18/16 08:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		04/18/16 08:01	994-05-8	
Benzene	**3800**	ug/L	125	42.5	25		04/18/16 16:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		04/18/16 08:01	624-95-3	
tert-Butyl Alcohol	**2270**	ug/L	1250	721	12.5		04/18/16 08:01	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		04/18/16 08:01	762-75-4	
1,2-Dichloroethane	**59.6J**	ug/L	62.5	22.5	12.5		04/18/16 08:01	107-06-2	
Diisopropyl ether	**29.2J**	ug/L	62.5	21.2	12.5		04/18/16 08:01	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		04/18/16 08:01	64-17-5	
Ethylbenzene	**99.0**	ug/L	62.5	20.0	12.5		04/18/16 08:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		04/18/16 08:01	637-92-3	
Methyl-tert-butyl ether	**1800**	ug/L	62.5	21.2	12.5		04/18/16 08:01	1634-04-4	
Naphthalene	**40.2J**	ug/L	62.5	25.0	12.5		04/18/16 08:01	91-20-3	
Toluene	ND	ug/L	62.5	20.0	12.5		04/18/16 08:01	108-88-3	
Xylene (Total)	**1940**	ug/L	125	33.8	12.5		04/18/16 08:01	1330-20-7	
m&p-Xylene	**1610**	ug/L	125	38.8	12.5		04/18/16 08:01	179601-23-1	
o-Xylene	**323**	ug/L	62.5	20.0	12.5		04/18/16 08:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		12.5		04/18/16 08:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		12.5		04/18/16 08:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		12.5		04/18/16 08:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-9 **Lab ID: 92294071008** Collected: 04/13/16 13:10 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 18:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/18/16 11:43	04/18/16 18:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 04:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 04:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 04:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 04:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 04:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 04:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 04:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 04:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 04:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 04:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 04:02	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 04:02	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 04:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 04:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 04:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/18/16 04:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/18/16 04:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/18/16 04:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-10 **Lab ID: 92294071009** Collected: 04/13/16 13:30 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 19:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	04/18/16 11:43	04/18/16 19:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 04:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 04:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 04:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 04:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 04:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 04:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 04:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 04:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 04:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 04:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 04:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 04:19	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 04:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 04:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 04:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/18/16 04:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/18/16 04:19	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/18/16 04:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-11 **Lab ID: 92294071010** Collected: 04/13/16 14:00 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 19:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	04/18/16 11:43	04/18/16 19:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**237**	ug/L	100	76.8	1		04/18/16 04:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 04:36	994-05-8	
Benzene	**45.5**	ug/L	5.0	1.7	1		04/18/16 04:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 04:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 04:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 04:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 04:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 04:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 04:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 04:36	637-92-3	
Methyl-tert-butyl ether	**14.3**	ug/L	5.0	1.7	1		04/18/16 04:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 04:36	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 04:36	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 04:36	1330-20-7	
m&p-Xylene	**4.1J**	ug/L	10.0	3.1	1		04/18/16 04:36	179601-23-1	
o-Xylene	**2.1J**	ug/L	5.0	1.6	1		04/18/16 04:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/18/16 04:36	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/18/16 04:36	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/18/16 04:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-12 **Lab ID: 92294071011** Collected: 04/13/16 12:30 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 19:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/18/16 11:43	04/18/16 19:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 04:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 04:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 04:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 04:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 04:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 04:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 04:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:53	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 04:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 04:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 04:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 04:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 04:53	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 04:53	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 04:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 04:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 04:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/18/16 04:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/18/16 04:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/18/16 04:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-13 **Lab ID: 92294071012** Collected: 04/13/16 12:10 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 20:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	04/18/16 11:43	04/18/16 20:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 05:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 05:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 05:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 05:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 05:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 05:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 05:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 05:10	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 05:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 05:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 05:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 05:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 05:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 05:10	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 05:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 05:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 05:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/18/16 05:10	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/18/16 05:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/18/16 05:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-14 **Lab ID: 92294071013** Collected: 04/13/16 11:50 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 20:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/18/16 11:43	04/18/16 20:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 21:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 21:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 21:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 21:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 21:08	75-65-0	L2
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 21:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 21:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 21:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 21:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 21:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 21:08	637-92-3	
Methyl-tert-butyl ether	**51.3**	ug/L	5.0	1.7	1		04/18/16 21:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 21:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 21:08	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 21:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 21:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 21:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/18/16 21:08	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/18/16 21:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/18/16 21:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-15 **Lab ID: 92294071014** Collected: 04/13/16 10:50 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 21:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	04/18/16 11:43	04/18/16 21:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 05:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 05:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 05:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 05:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 05:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 05:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 05:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 05:27	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 05:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 05:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 05:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 05:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 05:27	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 05:27	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 05:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 05:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 05:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/18/16 05:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/18/16 05:27	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/18/16 05:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-16 **Lab ID: 92294071015** Collected: 04/13/16 11:10 Received: 04/15/16 09:30 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	04/18/16 11:43	04/18/16 21:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	04/18/16 11:43	04/18/16 21:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 09:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 09:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 09:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 09:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 09:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 09:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 09:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 09:27	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 09:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 09:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 09:27	637-92-3	
Methyl-tert-butyl ether	**35.1**	ug/L	5.0	1.7	1		04/18/16 09:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 09:27	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 09:27	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 09:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 09:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 09:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/18/16 09:27	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/18/16 09:27	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/18/16 09:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-17 **Lab ID: 92294071016** Collected: 04/13/16 11:30 Received: 04/15/16 09:30 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	04/18/16 11:44	04/18/16 21:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	04/18/16 11:44	04/18/16 21:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 05:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 05:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 05:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 05:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 05:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 05:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 05:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 05:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 05:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 05:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 05:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 05:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 05:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 05:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 05:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 05:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 05:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/18/16 05:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/18/16 05:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/18/16 05:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-18 **Lab ID: 92294071017** Collected: 04/13/16 12:50 Received: 04/15/16 09:30 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	04/18/16 11:44	04/18/16 23:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	04/18/16 11:44	04/18/16 23:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 06:01	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 06:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 06:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 06:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 06:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 06:01	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 06:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 06:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 06:01	64-17-5	M1
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 06:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 06:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 06:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 06:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 06:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 06:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 06:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 06:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/18/16 06:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/18/16 06:01	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/18/16 06:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-19 **Lab ID: 92294071018** Collected: 04/13/16 16:30 Received: 04/15/16 09:30 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	04/18/16 11:44	04/18/16 23:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	04/18/16 11:44	04/18/16 23:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 06:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 06:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 06:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 06:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 06:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 06:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 06:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 06:18	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 06:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 06:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 06:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 06:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 06:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 06:18	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 06:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 06:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 06:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/18/16 06:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/18/16 06:18	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/18/16 06:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-20 **Lab ID: 92294071019** Collected: 04/13/16 17:10 Received: 04/15/16 09:30 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)	**10.5**	ug/L	0.41	0.41	20	04/18/16 11:44	04/19/16 15:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		20	04/18/16 11:44	04/19/16 15:41	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	5000	3840	50		04/18/16 08:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		04/18/16 08:35	994-05-8	
Benzene	**3730**	ug/L	250	85.0	50		04/18/16 08:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		04/18/16 08:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		04/18/16 08:35	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		04/18/16 08:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		04/18/16 08:35	107-06-2	
Diisopropyl ether	**98.5J**	ug/L	250	85.0	50		04/18/16 08:35	108-20-3	
Ethanol	ND	ug/L	10000	6550	50		04/18/16 08:35	64-17-5	
Ethylbenzene	**1050**	ug/L	250	80.0	50		04/18/16 08:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		04/18/16 08:35	637-92-3	
Methyl-tert-butyl ether	**3840**	ug/L	250	85.0	50		04/18/16 08:35	1634-04-4	
Naphthalene	**573**	ug/L	250	100	50		04/18/16 08:35	91-20-3	
Toluene	**22400**	ug/L	625	200	125		04/18/16 16:52	108-88-3	
Xylene (Total)	**12200**	ug/L	500	135	50		04/18/16 08:35	1330-20-7	
m&p-Xylene	**7730**	ug/L	500	155	50		04/18/16 08:35	179601-23-1	
o-Xylene	**4480**	ug/L	250	80.0	50		04/18/16 08:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		50		04/18/16 08:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		50		04/18/16 08:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		50		04/18/16 08:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: MW-21 **Lab ID: 92294071020** Collected: 04/13/16 14:50 Received: 04/15/16 09:30 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)	**0.44**	ug/L	0.021	0.021	1	04/18/16 11:44	04/19/16 00:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	126	%	60-140		1	04/18/16 11:44	04/19/16 00:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2790**	ug/L	1250	960	12.5		04/18/16 21:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		04/18/16 21:59	994-05-8	
Benzene	**1970**	ug/L	62.5	21.2	12.5		04/18/16 21:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		04/18/16 21:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		04/18/16 21:59	75-65-0	L2
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		04/18/16 21:59	762-75-4	
1,2-Dichloroethane	**31.7J**	ug/L	62.5	22.5	12.5		04/18/16 21:59	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		04/18/16 21:59	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		04/18/16 21:59	64-17-5	
Ethylbenzene	**55.2J**	ug/L	62.5	20.0	12.5		04/18/16 21:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		04/18/16 21:59	637-92-3	
Methyl-tert-butyl ether	**1680**	ug/L	62.5	21.2	12.5		04/18/16 21:59	1634-04-4	
Naphthalene	**33.6J**	ug/L	62.5	25.0	12.5		04/18/16 21:59	91-20-3	
Toluene	ND	ug/L	62.5	20.0	12.5		04/18/16 21:59	108-88-3	
Xylene (Total)	**1450**	ug/L	125	33.8	12.5		04/18/16 21:59	1330-20-7	
m&p-Xylene	**1030**	ug/L	125	38.8	12.5		04/18/16 21:59	179601-23-1	
o-Xylene	**416**	ug/L	62.5	20.0	12.5		04/18/16 21:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		12.5		04/18/16 21:59	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		12.5		04/18/16 21:59	17060-07-0	
Toluene-d8 (S)	102	%	70-130		12.5		04/18/16 21:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: DW-1 **Lab ID: 92294071021** Collected: 04/13/16 15:30 Received: 04/15/16 09:30 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	04/18/16 11:44	04/19/16 00:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	04/18/16 11:44	04/19/16 00:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 06:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 06:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 06:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 06:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 06:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 06:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 06:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 06:53	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 06:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 06:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 06:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 06:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 06:53	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 06:53	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 06:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 06:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 06:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/18/16 06:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/18/16 06:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/18/16 06:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: DW-2 **Lab ID: 92294071022** Collected: 04/13/16 10:30 Received: 04/15/16 09:30 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	04/18/16 11:45	04/19/16 01:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/18/16 11:45	04/19/16 01:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/18/16 07:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/18/16 07:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/18/16 07:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/18/16 07:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/18/16 07:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/18/16 07:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/18/16 07:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/18/16 07:10	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/18/16 07:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/18/16 07:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/18/16 07:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/18/16 07:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/18/16 07:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/18/16 07:10	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/16 07:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/18/16 07:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/18/16 07:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/18/16 07:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/18/16 07:10	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/18/16 07:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: DUP-1 **Lab ID: 92294071023** Collected: 04/13/16 17:55 Received: 04/15/16 09:30 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	0.021	0.021	1	04/18/16 11:45	04/19/16 02:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	150	%	60-140		1	04/18/16 11:45	04/19/16 02:34	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2140**	ug/L	2000	1540	20		04/18/16 22:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		04/18/16 22:16	994-05-8	
Benzene	**1770**	ug/L	100	34.0	20		04/18/16 22:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		04/18/16 22:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		04/18/16 22:16	75-65-0	L2
tert-Butyl Formate	ND	ug/L	1000	146	20		04/18/16 22:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		04/18/16 22:16	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		04/18/16 22:16	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		04/18/16 22:16	64-17-5	
Ethylbenzene	**584**	ug/L	100	32.0	20		04/18/16 22:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		04/18/16 22:16	637-92-3	
Methyl-tert-butyl ether	**180**	ug/L	100	34.0	20		04/18/16 22:16	1634-04-4	
Naphthalene	ND	ug/L	100	40.0	20		04/18/16 22:16	91-20-3	
Toluene	**2480**	ug/L	100	32.0	20		04/18/16 22:16	108-88-3	
Xylene (Total)	**2920**	ug/L	200	54.0	20		04/18/16 22:16	1330-20-7	
m&p-Xylene	**2350**	ug/L	200	62.0	20		04/18/16 22:16	179601-23-1	
o-Xylene	**576**	ug/L	100	32.0	20		04/18/16 22:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		20		04/18/16 22:16	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		20		04/18/16 22:16	17060-07-0	
Toluene-d8 (S)	102	%	70-130		20		04/18/16 22:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: DUP-2 **Lab ID: 92294071024** Collected: 04/13/16 17:35 Received: 04/15/16 09:30 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)	**12.9**	ug/L	0.51	0.51	25	04/18/16 11:45	04/19/16 15:20	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		25	04/18/16 11:45	04/19/16 15:20	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**8750**	ug/L	2500	1920	25		04/17/16 19:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		04/17/16 19:41	994-05-8	
Benzene	**7070**	ug/L	500	170	100		04/18/16 16:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		04/17/16 19:41	624-95-3	
tert-Butyl Alcohol	**6630**	ug/L	2500	1440	25		04/17/16 19:41	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		04/17/16 19:41	762-75-4	
1,2-Dichloroethane	**95.8J**	ug/L	125	45.0	25		04/17/16 19:41	107-06-2	
Diisopropyl ether	**57.5J**	ug/L	125	42.5	25		04/17/16 19:41	108-20-3	
Ethanol	ND	ug/L	5000	3280	25		04/17/16 19:41	64-17-5	
Ethylbenzene	**1450**	ug/L	125	40.0	25		04/17/16 19:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		04/17/16 19:41	637-92-3	
Methyl-tert-butyl ether	**4840**	ug/L	500	170	100		04/18/16 16:52	1634-04-4	
Naphthalene	**737**	ug/L	125	50.0	25		04/17/16 19:41	91-20-3	
Toluene	**18100**	ug/L	500	160	100		04/18/16 16:52	108-88-3	
Xylene (Total)	**8950**	ug/L	250	67.5	25		04/17/16 19:41	1330-20-7	
m&p-Xylene	**5820**	ug/L	250	77.5	25		04/17/16 19:41	179601-23-1	
o-Xylene	**3130**	ug/L	125	40.0	25		04/17/16 19:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		25		04/17/16 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		25		04/17/16 19:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		25		04/17/16 19:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: FIELD BLANK **Lab ID: 92294071025** Collected: 04/13/16 18:00 Received: 04/15/16 09:30 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	04/18/16 11:45	04/19/16 03:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	04/18/16 11:45	04/19/16 03:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/17/16 16:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/17/16 16:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/17/16 16:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/17/16 16:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/17/16 16:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/17/16 16:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/17/16 16:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/17/16 16:38	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/17/16 16:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/17/16 16:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/17/16 16:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/17/16 16:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/17/16 16:38	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/17/16 16:38	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/16 16:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/17/16 16:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/17/16 16:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/17/16 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		04/17/16 16:38	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		04/17/16 16:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Short Stop
Pace Project No.: 92294071

Sample: TRIP BLANK **Lab ID: 92294071026** Collected: 04/13/16 00:00 Received: 04/15/16 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/17/16 16:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/17/16 16:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/17/16 16:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/17/16 16:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/17/16 16:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/17/16 16:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/17/16 16:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/17/16 16:54	108-20-3	
Ethanol	ND	ug/L	200	131	1		04/17/16 16:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/17/16 16:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/17/16 16:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/17/16 16:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/17/16 16:54	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/17/16 16:54	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/16 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/17/16 16:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/17/16 16:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/17/16 16:54	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		04/17/16 16:54	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/17/16 16:54	2037-26-5	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

QC Batch: MSV/36423 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92294071001, 92294071003, 92294071005

METHOD BLANK: 1712618 Matrix: Water
Associated Lab Samples: 92294071001, 92294071003, 92294071005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	04/17/16 15:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	04/17/16 15:15	
Benzene	ug/L	ND	5.0	1.7	04/17/16 15:15	
Diisopropyl ether	ug/L	ND	5.0	1.7	04/17/16 15:15	
Ethanol	ug/L	ND	200	131	04/17/16 15:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	04/17/16 15:15	
Ethylbenzene	ug/L	ND	5.0	1.6	04/17/16 15:15	
m&p-Xylene	ug/L	ND	10.0	3.1	04/17/16 15:15	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	04/17/16 15:15	
Naphthalene	ug/L	ND	5.0	2.0	04/17/16 15:15	
o-Xylene	ug/L	ND	5.0	1.6	04/17/16 15:15	
tert-Amyl Alcohol	ug/L	ND	100	76.8	04/17/16 15:15	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	04/17/16 15:15	
tert-Butyl Alcohol	ug/L	ND	100	57.7	04/17/16 15:15	
tert-Butyl Formate	ug/L	ND	50.0	7.3	04/17/16 15:15	
Toluene	ug/L	ND	5.0	1.6	04/17/16 15:15	
Xylene (Total)	ug/L	ND	10.0	2.7	04/17/16 15:15	
1,2-Dichloroethane-d4 (S)	%	99	70-130		04/17/16 15:15	
4-Bromofluorobenzene (S)	%	100	70-130		04/17/16 15:15	
Toluene-d8 (S)	%	101	70-130		04/17/16 15:15	

LABORATORY CONTROL SAMPLE: 1712619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.1	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	738	74	70-130	
Benzene	ug/L	50	49.2	98	70-130	
Diisopropyl ether	ug/L	50	48.9	98	70-130	
Ethanol	ug/L	2000	1660	83	70-130	
Ethyl-tert-butyl ether	ug/L	100	115	115	70-130	
Ethylbenzene	ug/L	50	48.9	98	70-130	
m&p-Xylene	ug/L	100	95.7	96	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	70-130	
Naphthalene	ug/L	50	51.3	103	70-130	
o-Xylene	ug/L	50	47.4	95	70-130	
tert-Amyl Alcohol	ug/L	1000	742	74	70-130	
tert-Amylmethyl ether	ug/L	100	95.7	96	70-130	
tert-Butyl Alcohol	ug/L	500	357	71	70-130	
tert-Butyl Formate	ug/L	400	413	103	70-130	
Toluene	ug/L	50	48.8	98	70-130	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

LABORATORY CONTROL SAMPLE: 1712619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1712623

Parameter	Units	92294071005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.9	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	298	75	70-130	
Benzene	ug/L	ND	20	21.9	110	70-130	
Diisopropyl ether	ug/L	ND	20	20.1	101	70-130	
Ethanol	ug/L	ND	800	648	81	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	46.7	117	70-130	
Ethylbenzene	ug/L	ND	20	22.2	111	70-130	
m&p-Xylene	ug/L	ND	40	43.8	109	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.1	101	70-130	
Naphthalene	ug/L	ND	20	19.5	97	70-130	
o-Xylene	ug/L	ND	20	21.3	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	267	67	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	37.6	94	70-130	
tert-Butyl Alcohol	ug/L	ND	200	197	98	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	21.4	107	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1712622

Parameter	Units	92294071003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	25.3	25.2	0	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	9.2J	9.2J		30	
Methyl-tert-butyl ether	ug/L	ND	3.4J		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

SAMPLE DUPLICATE: 1712622

Parameter	Units	92294071003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	100	1		
4-Bromofluorobenzene (S)	%	100	99	0		
Toluene-d8 (S)	%	102	100	2		

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

QC Batch: MSV/36425 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92294071002, 92294071006, 92294071007, 92294071008, 92294071009, 92294071010, 92294071011, 92294071012, 92294071014, 92294071015, 92294071016, 92294071017, 92294071018, 92294071019, 92294071021, 92294071022

METHOD BLANK: 1712628 Matrix: Water
Associated Lab Samples: 92294071002, 92294071006, 92294071007, 92294071008, 92294071009, 92294071010, 92294071011, 92294071012, 92294071014, 92294071015, 92294071016, 92294071017, 92294071018, 92294071019, 92294071021, 92294071022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	04/18/16 03:28	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	04/18/16 03:28	
Benzene	ug/L	ND	5.0	1.7	04/18/16 03:28	
Diisopropyl ether	ug/L	ND	5.0	1.7	04/18/16 03:28	
Ethanol	ug/L	ND	200	131	04/18/16 03:28	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	04/18/16 03:28	
Ethylbenzene	ug/L	ND	5.0	1.6	04/18/16 03:28	
m&p-Xylene	ug/L	ND	10.0	3.1	04/18/16 03:28	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	04/18/16 03:28	
Naphthalene	ug/L	ND	5.0	2.0	04/18/16 03:28	
o-Xylene	ug/L	ND	5.0	1.6	04/18/16 03:28	
tert-Amyl Alcohol	ug/L	ND	100	76.8	04/18/16 03:28	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	04/18/16 03:28	
tert-Butyl Alcohol	ug/L	ND	100	57.7	04/18/16 03:28	
tert-Butyl Formate	ug/L	ND	50.0	7.3	04/18/16 03:28	
Toluene	ug/L	ND	5.0	1.6	04/18/16 03:28	
Xylene (Total)	ug/L	ND	10.0	2.7	04/18/16 03:28	
1,2-Dichloroethane-d4 (S)	%	98	70-130		04/18/16 03:28	
4-Bromofluorobenzene (S)	%	100	70-130		04/18/16 03:28	
Toluene-d8 (S)	%	102	70-130		04/18/16 03:28	

LABORATORY CONTROL SAMPLE: 1712629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.0	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	755	75	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	49.6	99	70-130	
Ethanol	ug/L	2000	1580	79	70-130	
Ethyl-tert-butyl ether	ug/L	100	115	115	70-130	
Ethylbenzene	ug/L	50	48.7	97	70-130	
m&p-Xylene	ug/L	100	95.7	96	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Naphthalene	ug/L	50	50.5	101	70-130	
o-Xylene	ug/L	50	48.1	96	70-130	
tert-Amyl Alcohol	ug/L	1000	746	75	70-130	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

LABORATORY CONTROL SAMPLE: 1712629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amylmethyl ether	ug/L	100	96.6	97	70-130	
tert-Butyl Alcohol	ug/L	500	358	72	70-130	
tert-Butyl Formate	ug/L	400	411	103	70-130	
Toluene	ug/L	50	49.2	98	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1712630

Parameter	Units	92294071017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.2	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	302	76	70-130	
Benzene	ug/L	ND	20	21.5	107	70-130	
Diisopropyl ether	ug/L	ND	20	20.0	100	70-130	
Ethanol	ug/L	ND	800	1140	142	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	46.6	117	70-130	
Ethylbenzene	ug/L	ND	20	21.2	106	70-130	
m&p-Xylene	ug/L	ND	40	41.9	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.2	96	70-130	
Naphthalene	ug/L	ND	20	19.8	99	70-130	
o-Xylene	ug/L	ND	20	20.2	101	70-130	
tert-Amyl Alcohol	ug/L	ND	400	265	66	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	37.5	94	70-130	
tert-Butyl Alcohol	ug/L	ND	200	184	91	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	21.2	106	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1712631

Parameter	Units	92294071018 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

SAMPLE DUPLICATE: 1712631

Parameter	Units	92294071018 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	100	0		
4-Bromofluorobenzene (S)	%	98	100	2		
Toluene-d8 (S)	%	103	101	2		

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

QC Batch: MSV/36426 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92294071024, 92294071025, 92294071026

METHOD BLANK: 1712640 Matrix: Water
Associated Lab Samples: 92294071024, 92294071025, 92294071026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	04/17/16 16:04	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	04/17/16 16:04	
Benzene	ug/L	ND	5.0	1.7	04/17/16 16:04	
Diisopropyl ether	ug/L	ND	5.0	1.7	04/17/16 16:04	
Ethanol	ug/L	ND	200	131	04/17/16 16:04	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	04/17/16 16:04	
Ethylbenzene	ug/L	ND	5.0	1.6	04/17/16 16:04	
m&p-Xylene	ug/L	ND	10.0	3.1	04/17/16 16:04	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	04/17/16 16:04	
Naphthalene	ug/L	ND	5.0	2.0	04/17/16 16:04	
o-Xylene	ug/L	ND	5.0	1.6	04/17/16 16:04	
tert-Amyl Alcohol	ug/L	ND	100	76.8	04/17/16 16:04	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	04/17/16 16:04	
tert-Butyl Alcohol	ug/L	ND	100	57.7	04/17/16 16:04	
tert-Butyl Formate	ug/L	ND	50.0	7.3	04/17/16 16:04	
Toluene	ug/L	ND	5.0	1.6	04/17/16 16:04	
Xylene (Total)	ug/L	ND	10.0	2.7	04/17/16 16:04	
1,2-Dichloroethane-d4 (S)	%	86	70-130		04/17/16 16:04	
4-Bromofluorobenzene (S)	%	106	70-130		04/17/16 16:04	
Toluene-d8 (S)	%	106	70-130		04/17/16 16:04	

LABORATORY CONTROL SAMPLE: 1712641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	38.6	77	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	855	85	70-130	
Benzene	ug/L	50	44.0	88	70-130	
Diisopropyl ether	ug/L	50	42.2	84	70-130	
Ethanol	ug/L	2000	1740	87	70-130	
Ethyl-tert-butyl ether	ug/L	100	85.4	85	70-130	
Ethylbenzene	ug/L	50	45.2	90	70-130	
m&p-Xylene	ug/L	100	88.7	89	70-130	
Methyl-tert-butyl ether	ug/L	50	41.7	83	70-130	
Naphthalene	ug/L	50	45.1	90	70-130	
o-Xylene	ug/L	50	43.0	86	70-130	
tert-Amyl Alcohol	ug/L	1000	800	80	70-130	
tert-Amylmethyl ether	ug/L	100	81.8	82	70-130	
tert-Butyl Alcohol	ug/L	500	372	74	70-130	
tert-Butyl Formate	ug/L	400	313	78	70-130	
Toluene	ug/L	50	42.4	85	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

LABORATORY CONTROL SAMPLE: 1712641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	132	88	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 1712642

Parameter	Units	92294098002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	124	20	133	46	70-130	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	336	77	70-130	
Benzene	ug/L	3280	20	2430	-4280	70-130	E
Diisopropyl ether	ug/L	14.0	20	33.4	97	70-130	
Ethanol	ug/L	ND	800	418	52	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	38.6	97	70-130	
Ethylbenzene	ug/L	799	20	717	-408	70-130	E
m&p-Xylene	ug/L	1060	40	859	-512	70-130	E
Methyl-tert-butyl ether	ug/L	283	20	379	482	70-130	E
Naphthalene	ug/L	436	20	433	-13	70-130	E
o-Xylene	ug/L	435	20	368	-334	70-130	E
tert-Amyl Alcohol	ug/L	7720	400	9080	341	70-130	E
tert-Amylmethyl ether	ug/L	7.1J	40	41.1	85	70-130	
tert-Butyl Alcohol	ug/L	389	200	703	157	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	936	20	808	-642	70-130	E
1,2-Dichloroethane-d4 (S)	%				91	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1712643

Parameter	Units	92294098003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	2.3J	2.1J		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	293	285	3	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	121	119	2	30	
m&p-Xylene	ug/L	210	206	2	30	
Methyl-tert-butyl ether	ug/L	11.8	11.1	6	30	
Naphthalene	ug/L	21.7	18.8	14	30	
o-Xylene	ug/L	47.8	47.4	1	30	
tert-Amyl Alcohol	ug/L	2130	1490	35	30	D6
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

SAMPLE DUPLICATE: 1712643

Parameter	Units	92294098003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	260	236	9	30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	52.1	50.1	4	30	
Xylene (Total)	ug/L	258	253	2	30	
1,2-Dichloroethane-d4 (S)	%	94	91	3		
4-Bromofluorobenzene (S)	%	96	97	1		
Toluene-d8 (S)	%	101	101	1		

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

QC Batch: MSV/36441 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92294071004, 92294071013, 92294071020, 92294071023

METHOD BLANK: 1713234 Matrix: Water
Associated Lab Samples: 92294071004, 92294071013, 92294071020, 92294071023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	04/18/16 17:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	04/18/16 17:26	
Benzene	ug/L	ND	5.0	1.7	04/18/16 17:26	
Diisopropyl ether	ug/L	ND	5.0	1.7	04/18/16 17:26	
Ethanol	ug/L	ND	200	131	04/18/16 17:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	04/18/16 17:26	
Ethylbenzene	ug/L	ND	5.0	1.6	04/18/16 17:26	
m&p-Xylene	ug/L	ND	10.0	3.1	04/18/16 17:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	04/18/16 17:26	
Naphthalene	ug/L	ND	5.0	2.0	04/18/16 17:26	
o-Xylene	ug/L	ND	5.0	1.6	04/18/16 17:26	
tert-Amyl Alcohol	ug/L	ND	100	76.8	04/18/16 17:26	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	04/18/16 17:26	
tert-Butyl Alcohol	ug/L	ND	100	57.7	04/18/16 17:26	
tert-Butyl Formate	ug/L	ND	50.0	7.3	04/18/16 17:26	
Toluene	ug/L	ND	5.0	1.6	04/18/16 17:26	
Xylene (Total)	ug/L	ND	10.0	2.7	04/18/16 17:26	
1,2-Dichloroethane-d4 (S)	%	97	70-130		04/18/16 17:26	
4-Bromofluorobenzene (S)	%	99	70-130		04/18/16 17:26	
Toluene-d8 (S)	%	102	70-130		04/18/16 17:26	

LABORATORY CONTROL SAMPLE: 1713235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.0	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	726	73	70-130	
Benzene	ug/L	50	50.4	101	70-130	
Diisopropyl ether	ug/L	50	49.0	98	70-130	
Ethanol	ug/L	2000	1500	75	70-130	
Ethyl-tert-butyl ether	ug/L	100	113	113	70-130	
Ethylbenzene	ug/L	50	49.7	99	70-130	
m&p-Xylene	ug/L	100	97.7	98	70-130	
Methyl-tert-butyl ether	ug/L	50	48.0	96	70-130	
Naphthalene	ug/L	50	49.7	99	70-130	
o-Xylene	ug/L	50	48.0	96	70-130	
tert-Amyl Alcohol	ug/L	1000	724	72	70-130	
tert-Amylmethyl ether	ug/L	100	94.9	95	70-130	
tert-Butyl Alcohol	ug/L	500	334	67	70-130	L0
tert-Butyl Formate	ug/L	400	407	102	70-130	
Toluene	ug/L	50	50.0	100	70-130	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

LABORATORY CONTROL SAMPLE: 1713235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1713236

Parameter	Units	92293508022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.6	92	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	274	69	70-130	M1
Benzene	ug/L	ND	20	22.1	111	70-130	
Diisopropyl ether	ug/L	ND	20	20.1	100	70-130	
Ethanol	ug/L	ND	800	475	59	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	47.9	120	70-130	
Ethylbenzene	ug/L	ND	20	21.4	107	70-130	
m&p-Xylene	ug/L	ND	40	42.3	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.8	104	70-130	
Naphthalene	ug/L	ND	20	20.8	103	70-130	
o-Xylene	ug/L	ND	20	20.4	102	70-130	
tert-Amyl Alcohol	ug/L	ND	400	259	65	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	38.7	97	70-130	
tert-Butyl Alcohol	ug/L	ND	200	188	94	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	21.8	109	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1713237

Parameter	Units	92293508023 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	5.0J	5.2		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	2.0J	2.0J		30	
m&p-Xylene	ug/L	12.3	12.5	2	30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	3.9J	4.1J		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

SAMPLE DUPLICATE: 1713237

Parameter	Units	92293508023 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	12.3	12.5	2	30	
1,2-Dichloroethane-d4 (S)	%	98	97	1		
4-Bromofluorobenzene (S)	%	99	98	0		
Toluene-d8 (S)	%	100	100	0		

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

QC Batch: OEXT/42006 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92294071001, 92294071002, 92294071003, 92294071004, 92294071005, 92294071006, 92294071007, 92294071008, 92294071009, 92294071010, 92294071011, 92294071012, 92294071013, 92294071014, 92294071015, 92294071016

METHOD BLANK: 1712678 Matrix: Water
Associated Lab Samples: 92294071001, 92294071002, 92294071003, 92294071004, 92294071005, 92294071006, 92294071007, 92294071008, 92294071009, 92294071010, 92294071011, 92294071012, 92294071013, 92294071014, 92294071015, 92294071016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	04/18/16 13:32	
1-Chloro-2-bromopropane (S)	%	115	60-140		04/18/16 13:32	

LABORATORY CONTROL SAMPLE & LCSD: 1712679 1712680

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	0.39	0.33	136	116	60-140	17	20	
1-Chloro-2-bromopropane (S)	%				130	119	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712681 1712682

Parameter	Units	92294071001 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	17.1	.28	.28	16.4	16.8	-230	-100	60-140	2	20	M1
1-Chloro-2-bromopropane (S)	%						168	172	60-140			S2

SAMPLE DUPLICATE: 1712683

Parameter	Units	92294071013 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	102	111	7		

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QUALITY CONTROL DATA

Project: Short Stop
Pace Project No.: 92294071

QC Batch: OEXT/42007 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92294071017, 92294071018, 92294071019, 92294071020, 92294071021, 92294071022, 92294071023, 92294071024, 92294071025

METHOD BLANK: 1712684 Matrix: Water
Associated Lab Samples: 92294071017, 92294071018, 92294071019, 92294071020, 92294071021, 92294071022, 92294071023, 92294071024, 92294071025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	04/18/16 22:36	
1-Chloro-2-bromopropane (S)	%	103	60-140		04/18/16 22:36	

LABORATORY CONTROL SAMPLE & LCSD: 1712685 1712686

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	0.32	0.31	110	106	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				108	105	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712687 1712688

Parameter	Units	92294071021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.28	0.29	102	104	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						101	103	60-140			

SAMPLE DUPLICATE: 1712689

Parameter	Units	92294071022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	111	7		

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QUALIFIERS

Project: Short Stop
Pace Project No.: 92294071

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Short Stop
Pace Project No.: 92294071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92294071001	MW-1R	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071002	MW-2R	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071003	MW-4R	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071004	MW-5	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071005	MW-6	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071006	MW-7	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071007	MW-8	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071008	MW-9	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071009	MW-10	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071010	MW-11	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071011	MW-12	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071012	MW-13	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071013	MW-14	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071014	MW-15	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071015	MW-16	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071016	MW-17	EPA 8011	OEXT/42006	EPA 8011	GCSV/24705
92294071017	MW-18	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071018	MW-19	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071019	MW-20	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071020	MW-21	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071021	DW-1	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071022	DW-2	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071023	DUP-1	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071024	DUP-2	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071025	FIELD BLANK	EPA 8011	OEXT/42007	EPA 8011	GCSV/24706
92294071001	MW-1R	EPA 8260	MSV/36423		
92294071002	MW-2R	EPA 8260	MSV/36425		
92294071003	MW-4R	EPA 8260	MSV/36423		
92294071004	MW-5	EPA 8260	MSV/36441		
92294071005	MW-6	EPA 8260	MSV/36423		
92294071006	MW-7	EPA 8260	MSV/36425		
92294071007	MW-8	EPA 8260	MSV/36425		
92294071008	MW-9	EPA 8260	MSV/36425		
92294071009	MW-10	EPA 8260	MSV/36425		
92294071010	MW-11	EPA 8260	MSV/36425		
92294071011	MW-12	EPA 8260	MSV/36425		
92294071012	MW-13	EPA 8260	MSV/36425		
92294071013	MW-14	EPA 8260	MSV/36441		
92294071014	MW-15	EPA 8260	MSV/36425		
92294071015	MW-16	EPA 8260	MSV/36425		
92294071016	MW-17	EPA 8260	MSV/36425		
92294071017	MW-18	EPA 8260	MSV/36425		
92294071018	MW-19	EPA 8260	MSV/36425		
92294071019	MW-20	EPA 8260	MSV/36425		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Short Stop
Pace Project No.: 92294071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92294071020	**MW-21**	EPA 8260	MSV/36441		
92294071021	**DW-1**	EPA 8260	MSV/36425		
92294071022	**DW-2**	EPA 8260	MSV/36425		
92294071023	**DUP-1**	EPA 8260	MSV/36441		
92294071024	**DUP-2**	EPA 8260	MSV/36426		
92294071025	**FIELD BLANK**	EPA 8260	MSV/36426		
92294071026	**TRIP BLANK**	EPA 8260	MSV/36426		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Pace Analytical
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1997099

Section A Required Client Information:

Company: KLM Environmental
Address: Po Box 2704
Goose Creek, SC 29445
Email To: mKeller131@comcast.net
Phone: 843-870-4285 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Keller
Copy To:
Purchase Order No.:
Project Name: Short Stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 874-2

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	BTEX, exp, MTBE	1,2 DCA	8 Oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 22941071
1	MW-1R	WT	C	4-13-16			1730						X						X	X	X	X		001
2	MW-2R	WT	C	4-13-16			1750						X						X	X	X	X		002
3	MW-4R	WT	C	4-13-16			1610						X						X	X	X	X		003
4	MW-5	WT	C	4-13-16			1650						X						X	X	X	X		004
5	MW-6	WT	C	4-13-16			1550						X						X	X	X	X		005
6	MW-7	WT	C	4-13-16			1420						X						X	X	X	X		006
7	MW-8	WT	C	4-13-16			1510						X						X	X	X	X		007
8	MW-9	WT	C	4-13-16			1310						X						X	X	X	X		008
9	MW-10	WT	C	4-13-16			1330						X						X	X	X	X		009
10	MW-11	WT	C	4-13-16			1400						X						X	X	X	X		010
11	MW-12	WT	C	4-13-16			1230						X						X	X	X	X		011
12	MW-13	WT	C	4-13-16			1210						X						X	X	X	X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	4-14-16	1700	[signature] Pace Courier	4/15	9:30	4.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gary Long
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 4-14-16

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 3

1997099

Section A Required Client Information:

Company: KLM Environmental
Address: Po Box 2704
Goose Creek, SC 29445
Email To: mKeller1316@comcast.net
Phone: 843-870-4285 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Keller
Copy To:
Purchase Order No.:
Project Name: Short Stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: BTEX, Naph, MTBE	1,2 DCA	8 Oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-14	WT	C	4-13-16			1150						X					X	X	X	X		013
2	MW-15	WT	C	4-13-16			1050						X					X	X	X	X		014
3	MW-16	WT	C	4-13-16			1110						X					X	X	X	X		015
4	MW-17	WT	C	4-13-16			1130						X					X	X	X	X		016
5	MW-18	WT	C	4-13-16			1250						X					X	X	X	X		017
6	MW-19	WT	C	4-13-16			1630						X					X	X	X	X		018
7	MW-20	WT	C	4-13-16			1710						X					X	X	X	X		019
8	MW-21	WT	C	4-13-16			1450						X					X	X	X	X		020
9	DW-1	WT	C	4-13-16			1530						X					X	X	X	X		021
10	DW-2	WT	C	4-13-16			1030						X					X	X	X	X		022
11	Dup-1	WT	C	4-13-16			1755						X					X	X	X	X		023
12	Dup-2	WT	C	4-13-16			1735						X					X	X	X	X		024

MS 4/15/16
92294071
~~92290~~4

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Gary Long	4-14-16	1700	Bonnie / pace lvl	4/15	9:30	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Gary Long
SIGNATURE of SAMPLER: Gary Long
DATE Signed (MM/DD/YY): 4-14-16

*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.

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Page: 3 of 3

1997099

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Address: Po Box 2704
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Project Name: Short Stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): BTex, Nap, MTBE	1,2, DCA	8 oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92294071
1	Field Blank	wt	G	4-13-16			1800						X					X	X	X	X		025
2	Trip Blank	wt	G										X					X	X	X			026
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	4-14-16	1700	Bonnie Nary/pace lab	4/15	9:30	4.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gary Long
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 4-14-16

F-ALL-Q-020rev.07, 15-May-2007

*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.

Water Quality Meter Calibration Sheet

Project: Short Stop

Personnel : Gary Long

Calibration Date : 4-13-16

Time : 1000

Meter Horiba U-52

Serial # W22MV13L

pH= 4.01 (100-4 Standard Solution)

Spec. Cond. = 4.42 mS/cm (100-4 Standard Solution)

Turb. = 0 NTU(100-4 Standard Solution)

D.O. = 7.93 mg/L (Air)

Signature Gary Long

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 1R Dup. 2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.10 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.10
Volume Purged (gallons)								0
Time (military)								1730
Water Temp (°F)								68.6
pH (s.u.)								4.71
Specific Cond. (mS/cm)								1070
Turbidity (NTU)								44.8
Dissolved Oxygen (mg/L)								2.18
Salinity								0
OVA								—

Sample Time: 1730

Dup-2 - 1735

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 2R Dup-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.10 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								25.10
Volume Purged (gallons)								0
Time (military)								1750
Water Temp (°F)								70.9
pH (s.u.)								5.69
Specific Cond. (mS/cm)								.170
Turbidity (NTU)								26.7
Dissolved Oxygen (mg/L)								5.39
Salinity								.1
OVA								—

Sample Time: 1750

Dup-1 - 1755

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 3A

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 25.60 - 27.15 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: 1750

FP 25.60 - 27.15

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 4R

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.30 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.30
Volume Purged (gallons)								~~0~~
Time (military)								1610
Water Temp (°F)								69.1
pH (s.u.)								5.47
Specific Cond. (mS/cm)								.162
Turbidity (NTU)								3.2
Dissolved Oxygen (mg/L)								2.37
Salinity								.1
OVA								—

Sample Time: 1610

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 5

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.40 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.40
Volume Purged (gallons)								0
Time (military)								1650
Water Temp (°F)								68.3
pH (s.u.)								5.31
Specific Cond. (mS/cm)								.139
Turbidity (NTU)								13.7
Dissolved Oxygen (mg/L)								2.56
Salinity								.1
OVA								—

Sample Time: 1650

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23,85 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								23,85
Volume Purged (gallons)								~~0~~
Time (military)								1550
Water Temp (°F)								68,3
pH (s.u.)								5,25
Specific Cond. (mS/cm)								,062
Turbidity (NTU)								8,6
Dissolved Oxygen (mg/L)								2,82
Salinity								~~0~~
OVA								-

Sample Time: 1550

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 22.75 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								22.75
Volume Purged (gallons)								0
Time (military)								1420
Water Temp (°F)								72.1
pH (s.u.)								5.67
Specific Cond. (mS/cm)								.074
Turbidity (NTU)								469
Dissolved Oxygen (mg/L)								3.30
Salinity								0
OVA								—

Sample Time: 1420

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 8

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 22.90 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								22.90
Volume Purged (gallons)								~~0~~
Time (military)								1510
Water Temp (°F)								69.6
pH (s.u.)								5.05
Specific Cond. (mS/cm)								1070
Turbidity (NTU)								6.8
Dissolved Oxygen (mg/L)								2.60
Salinity								~~0~~
OVA								—

Sample Time: 1510

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 9

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23.30 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								23.30
Volume Purged (gallons)								~~0~~
Time (military)								1310
Water Temp (°F)								71.3
pH (s.u.)								5.73
Specific Cond. (mS/cm)								.066
Turbidity (NTU)								300
Dissolved Oxygen (mg/L)								5.47
Salinity								~~0~~
OVA								—

Sample Time: 1310

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23.25 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								23.25
Volume Purged (gallons)								~~0~~
Time (military)								1330
Water Temp (°F)								70.3
pH (s.u.)								5.61
Specific Cond. (mS/cm)								.092
Turbidity (NTU)								530
Dissolved Oxygen (mg/L)								7.10
Salinity								~~0~~
OVA								—

Sample Time: 1330

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23.70 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								23.70
Volume Purged (gallons)								0
Time (military)								1400
Water Temp (°F)								73.1
pH (s.u.)								5.62
Specific Cond. (mS/cm)								.113
Turbidity (NTU)								347
Dissolved Oxygen (mg/L)								3.15
Salinity								.1
OVA								—

Sample Time: 1400

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.22 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.22
Volume Purged (gallons)								~~0~~
Time (military)								1230
Water Temp (°F)								71.2
pH (s.u.)								5.37
Specific Cond. (mS/cm)								.081
Turbidity (NTU)								472
Dissolved Oxygen (mg/L)								3.57
Salinity								~~0~~
OVA								—

Sample Time: 1230

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.12 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.12
Volume Purged (gallons)								0
Time (military)								1210
Water Temp (°F)								72.1
pH (s.u.)								5.46
Specific Cond. (mS/cm)								.078
Turbidity (NTU)								510
Dissolved Oxygen (mg/L)								3.77
Salinity								0
OVA								-

Sample Time: 1210

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.45 ft.

Length of Water Column (LWC=TWD-DGW) 15.55 ft.

1 Csg. Volume (LWC*C)= 15.55 x .163 = 2.5 gals.
3 Csg. Volumes = 3 x 2.5 = 7.5 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.45
Volume Purged (gallons)								~~0~~
Time (military)								1150
Water Temp (°F)								72.1
pH (s.u.)								5.86
Specific Cond. (mS/cm)								.109
Turbidity (NTU)								800
Dissolved Oxygen (mg/L)								3.17
Salinity								.1
OVA								—

Sample Time: 1150

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # **MW-** 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 31 ft.
Depth to GW (DWG) 19.27 ft.

Length of Water Column (LWC=TWD-DGW) 11.73 ft.

1 Csg. Volume (LWC*C)= 11.73 x .163 = 1.9 gals.
3 Csg. Volumes = 3 x 2 = 6 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								19.27
Volume Purged (gallons)								~~0~~
Time (military)								1050
Water Temp (°F)								66.1
pH (s.u.)								5.79
Specific Cond. (mS/cm)								.171
Turbidity (NTU)								800
Dissolved Oxygen (mg/L)								5.46
Salinity								.1
OVA								—

Sample Time: 1050

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 39 ft.
Depth to GW (DWG) 19.95 ft.

Length of Water Column (LWC=TWD-DGW) 19.05 ft.

1 Csg. Volume (LWC*C)= 19.05 x .163 = 3.1 gals.
3 Csg. Volumes = 3 x 3 = 9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								19.95
Volume Purged (gallons)								~~0~~
Time (military)								1110
Water Temp (°F)								70.1
pH (s.u.)								5.69
Specific Cond. (mS/cm)								.118
Turbidity (NTU)								800
Dissolved Oxygen (mg/L)								4.19
Salinity								.1
OVA								—

Sample Time: 1110

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.72 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.72
Volume Purged (gallons)								~~0~~
Time (military)								1130
Water Temp (°F)								73
pH (s.u.)								5.77
Specific Cond. (mS/cm)								.098
Turbidity (NTU)								800
Dissolved Oxygen (mg/L)								3.62
Salinity								~~0~~
OVA								—

Sample Time: 1130

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 22.13 ft.

Length of Water Column (LWC=TWD-DGW) 17.87 ft.

1 Csg. Volume (LWC*C)= 17.87 x .163 = 2.9 gals.
3 Csg. Volumes = 3 x 3 = 9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								22.13
Volume Purged (gallons)								0
Time (military)								1250
Water Temp (°F)								73.5
pH (s.u.)								5.75
Specific Cond. (mS/cm)								.071
Turbidity (NTU)								800
Dissolved Oxygen (mg/L)								3.89
Salinity								0
OVA								—

Sample Time: 1250

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.23 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.23
Volume Purged (gallons)								~~0~~
Time (military)								1630
Water Temp (°F)								66.5
pH (s.u.)								5.30
Specific Cond. (mS/cm)								.053
Turbidity (NTU)								194
Dissolved Oxygen (mg/L)								2.35
Salinity								~~0~~
OVA								—

Sample Time: 1630

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-20

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 24.35 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								24.35
Volume Purged (gallons)								~~0~~
Time (military)								1710
Water Temp (°F)								68.2
pH (s.u.)								5.10
Specific Cond. (mS/cm)								.150
Turbidity (NTU)								40.3
Dissolved Oxygen (mg/L)								2.34
Salinity								.1
OVA								—

Sample Time: 1710

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW-21

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 23.20 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								23.20
Volume Purged (gallons)								0
Time (military)								1450
Water Temp (°F)								20.5
pH (s.u.)								5.73
Specific Cond. (mS/cm)								.152
Turbidity (NTU)								800
Dissolved Oxygen (mg/L)								3.11
Salinity								.1
OVA								—

Sample Time: 1450

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # MW- 22

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW								
Volume Purged (gallons)								
Time (military)								
Water Temp (°F)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								
Salinity								
OVA								

Sample Time: 1350

CNL

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # [redacted] DW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 63 ft.
Depth to GW (DWG) 23.80 ft.

Length of Water Column (LWC=TWD-DGW) 39.2 ft.

1 Csg. Volume (LWC*C)= 39.2 x .163 = 6 gals.
3 Csg. Volumes = 3 x 6 = 18 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 18 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	23.80	41.13	47.30	47.35				
Volume Purged (gallons)	0	6	12	18				
Time (military)	1515	1520	1525	1530				
Water Temp (°F)	71.2	70	70	69.6				
pH (s.u.)	6.51	6.75	6.65	6.54				
Specific Cond. (mS/cm)	.157	.158	.158	.158				
Turbidity (NTU)	89.7	22.5	5.2	15.2				
Dissolved Oxygen (mg/L)	3.48	3.99	3.32	3.11				
Salinity	.1	.1	.1	.1				
OVA	—	—	—	—				

Sample Time: 1530

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 4/13/16
Field Personnel G. Long and S Holmes
General Weather Condition sunny
Ambient Air Temperature 65
Facility Name Short Stop
Site ID# 05678

Quality Assurance:
Please see Water Quality Meter Calibration Sheet attached in front of the sampling sheets.

Well # ~~MW-~~ DW-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 21.74 ft.

Length of Water Column (LWC=TWD-DGW) 38.26 ft.

1 Csg. Volume (LWC*C)= 38.26 x .163 = 6.2 gals.
3 Csg. Volumes = 3 x 6 = 18 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 18 gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Depth to GW	21.74	38.40	44.50	44.75				
Volume Purged (gallons)	0	6	12	18				
Time (military)	1015	1020	1025	1030				
Water Temp (°F)	67.5	67.1	66.8	66.4				
pH (s.u.)	5.86	5.98	5.97	5.99				
Specific Cond. (mS/cm)	.280	.181	.157	.153				
Turbidity (NTU)	50.7	36.1	39.7	35.1				
Dissolved Oxygen (mg/L)	3.41	4.01	3.71	3.96				
Salinity	.1	.1	.1	.1				
OVA	—	—	—	—				

Sample Time: 1030

APPENDIX C

Regional Geology

APPENDIX D

Field Screening Logs

APPENDIX E

Well Logs

APPENDIX F

Aquifer Calculations / Historical Water Levels

TABLE 1 Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-1R	4/8/09	103.62	20-40	--	29.04	74.58
	1/5/10			--	28.26	75.36
	12/1/10			--	28.60	75.02
	5/6/14			--	26.80	76.82
	11/12/15			--	26.22	77.40
	4/13/16			--	24.10	79.52
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
	4/8/09			--	30.45	74.66
	1/5/10			--	29.72	75.39
	12/1/10			--	29.97	75.14
	5/6/14			--	28.40	76.71
	11/12/15			--	28.35	76.76
	4/13/16			--	25.10	80.01
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
	4/8/09			--	30.51	75.16
	1/5/10			29.75	29.86	**FP**
	12/1/10			28.79	33.22	**FP**
	5/6/14			27.72	31.56	**FP**
	11/12/15			25.43	27.25	**FP**
	4/13/16			25.60	27.15	**FP**
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
	4/8/09			--	29.60	74.84
	1/5/10			--	28.99	75.45
	12/1/10			--	29.44	75.00
	5/6/14			--	27.40	77.04
	11/12/15			--	26.88	77.56
	4/13/16			--	24.30	80.14
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
	4/8/09			--	30.55	75.07
	1/5/10			--	29.87	75.75
	12/1/10			--	29.95	75.67
	5/6/14			--	28.54	77.08
	11/12/15			--	25.21	80.41
	4/13/16			--	24.40	81.22
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
	4/8/09			--	28.92	74.95
	1/5/10			--	28.23	75.64
	12/1/10			--	29.95	75.67
	5/6/14			--	26.50	77.37
	11/12/15			--	26.37	77.50
	4/13/16			--	23.85	80.02

MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
	4/8/09			--	28.05	74.50
	1/5/10			--	27.27	75.28
	12/1/10			--	27.94	74.61
	5/6/14			--	25.67	76.88
	11/12/15			--	25.32	77.23
	4/13/16			--	22.75	79.8
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
	4/8/09			--	27.44	74.38
	1/5/10			--	26.64	75.18
	12/1/10			--	27.12	74.70
	5/6/14			--	25.17	76.65
	11/12/15			--	25.45	76.37
	4/13/16			--	22.50	79.32
MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
	4/8/09			--	27.71	74.32
	1/5/10			--	26.93	75.10
	12/1/10			--	27.79	74.24
	5/6/14			--	25.18	76.85
	11/12/15			--	25.45	76.58
	4/13/16			--	23.30	78.73
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
	4/8/09			--	27.94	74.36
	1/5/10			--	27.17	75.13
	12/1/10			--	27.91	74.39
	5/6/14			--	25.49	76.81
	11/12/15			--	25.46	76.84
	4/13/16			--	23.25	79.05
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
	4/8/09			--	26.22	74.23
	1/5/10			--	25.38	75.07
	12/1/10			--	25.93	74.52
	5/6/14			--	24.97	75.48
	11/12/15			--	23.70	76.75
	4/13/16			--	23.70	76.75
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
	4/8/09			--	27.98	74.42
	1/5/10			--	27.25	75.15
	12/1/10			--	27.46	74.94
	5/6/14			--	25.94	76.46
	11/12/15			--	25.13	77.27
	4/13/16			--	24.22	78.18

MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
	4/8/09			--	27.90	74.01
	1/5/10			--	27.18	74.73
	12/1/10			--	27.35	74.56
	5/6/14			--	25.92	75.99
	11/12/15			--	26.31	75.60
	4/13/16			--	24.12	77.79
MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
	4/8/09			--	28.43	73.34
	1/5/10			--	27.71	74.06
	12/1/10			--	27.91	73.86
	5/6/14			--	26.38	75.39
	11/12/15			--	26.60	75.17
	4/13/16			--	24.45	77.32
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
	4/8/09			--	21.90	72.70
	1/5/10			--	21.08	73.52
	12/1/10			--	21.90	72.70
	5/6/14			--	19.31	75.29
	11/12/15			--	19.38	75.22
	4/13/16			--	19.27	75.33
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82
	4/8/09			--	28.34	72.92
	1/5/10			--	27.53	73.73
	12/1/10			--	27.98	73.28
	5/6/14			--	25.95	75.31
	11/12/15			--	26.05	75.21
	4/13/16			--	19.95	81.31
MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
	4/8/09			--	28.50	73.19
	1/5/10			--	27.75	73.94
	12/1/10			--	27.67	74.02
	5/6/14			--	26.66	75.03
	11/12/15			--	26.38	75.31
	4/13/16			--	24.72	76.97
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
	4/8/09			--	25.21	72.98
	1/5/10			--	24.33	73.86
	12/1/10			--	25.15	73.04
	5/6/14			--	22.69	75.5
	11/12/15			--	23.10	75.09
	4/13/16			--	22.13	76.06
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
	4/8/09			--	28.12	78.74
	1/5/10			--	31.25	75.61
	12/1/10			--	31.55	75.31
	5/6/14			--	29.53	77.33
	11/12/15			--	28.96	77.90
	4/13/16			--	24.23	82.63

MW-20	4/8/09	104.83	20-40	--	30.12	74.71
	1/5/10			--	29.37	75.46
	12/1/10			--	29.73	75.10
	5/6/14			--	27.95	76.88
	11/12/15			--	27.46	77.37
	4/13/16			--	24.95	79.88
MW-21	4/8/09	102.66	20-40	--	28.10	74.56
	1/5/10			--	27.32	75.34
	12/1/10			--	27.87	74.79
	5/6/14			--	25.72	76.94
	11/12/15			--	25.62	77.04
	4/13/16			--	23.20	79.46
MW-22	4/8/09	101.23	20-40	--	26.95	74.28
	1/5/10			--	26.01	75.22
	12/1/10			--	26.57	74.66
	5/6/14			--	24.44	76.79
	11/12/15			--	CNL	--
	4/13/16			--	CNL	CNL
DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
	4/8/09			--	27.75	74.48
	1/5/10			--	28.19	74.04
	12/1/10			--	25.51	76.72
	5/6/14			--	25.49	76.74
	11/12/15			--	25.15	77.08
	4/13/16			--	23.80	78.43
DW-2	12/8/08	94.62	40-60	--	23.31	71.31
	4/8/09			--	21.90	72.72
	1/5/10			--	21.14	73.48
	12/1/10			--	21.90	72.72
	5/6/14			--	19.37	75.25
	11/12/15			--	20.34	74.28
	4/13/16			--	21.74	72.88

APPENDIX G

Disposal Manifest

APPENDIX H

Zoning Information

APPENDIX I

Fate and Transport Modeling

APPENDIX J

Access Agreements

APPENDIX K

Checklist

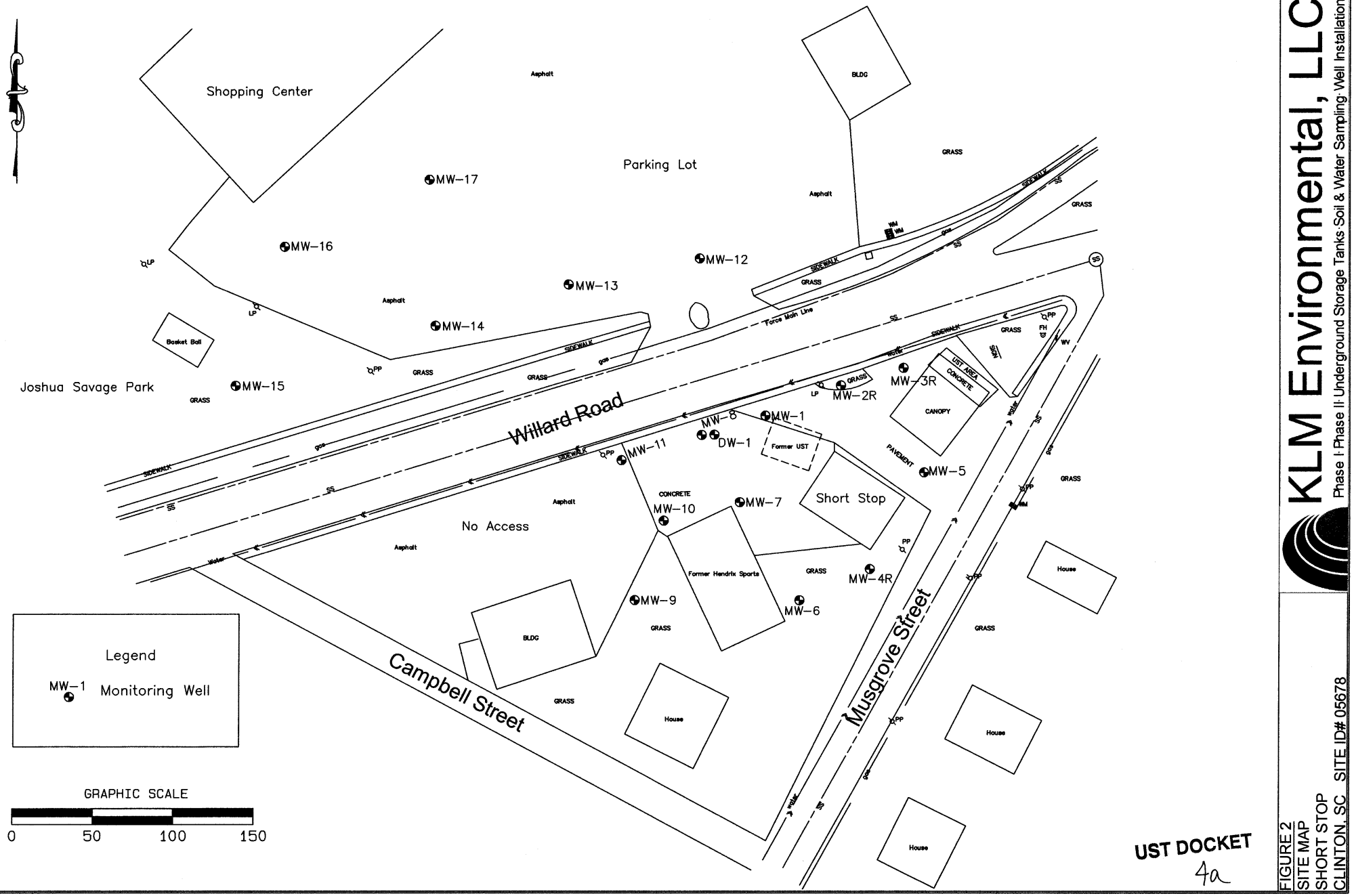
Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further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

Explanation for missing and incomplete information?

Contractor Checklist

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

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



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

UST DOCKET
4a

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

OCT 07 2008

MS MAUREEN JACKSON
WORSLEY COMPANIES INC
P O BOX 3227
WILMINGTON NC 28406-3227

Re: Assessment Directive
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678; CA#33781; MWA#UMW-22063
Release reported December 30, 1991
Tier II Assessment report received August 13, 2008
Laurens County

Dear Ms. Jackson:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing KLM Environmental, LLC as your contractor. The Program has reviewed the referenced report and determined the next necessary scope of work to be an additional monitoring well installation to complete the horizontal and vertical delineation of the plume followed by a comprehensive groundwater sampling event. Please refer to the enclosed site map for proposed well locations.

Cost Agreement # 33781 has been approved in the amount shown on the enclosed cost agreement form to install up to four shallow wells (based on field screening analytical data), one deep well (60 feet or top of rock) paired with MW-15 and sample all monitoring wells associated with the release. Groundwater samples from all monitoring wells should be analyzed for BTEX, naphthalene, MtBE, and lead. Analyses for EDB, 1,2 DCA, 8 oxygenates, nitrates, sulfates, and ferrous iron will be requested for the newly installed wells only. Additionally, laboratory analyses have been provided for four groundwater-screening samples for BTEX, naphthalene, and MtBE to ensure the down gradient edge of the plume is defined. All analyses should be in accordance with *Analytical Methodology* dated August 24, 2005. A copy of this publication is available on line at http://www.scdhec.gov/eqc/ admin/html/..%5C..%5Cust% 5Cpubs% 5Canalmet.pdf. **Please use low detection limits/reporting levels. Note that the Program will deny payment for any non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL).** Please note that purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have KLM Environmental, LLC submit results to the Program in an assessment report containing the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, dissolved oxygen, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Well measurements (groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth, screened interval) and groundwater laboratory analytical data for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- A data table summarizing the historical and current analytical results of CoC from all monitoring wells sampled should be submitted to the Program.

UST DOCKET
5 tech

- Revised geological cross sections based on information obtained from the installation of the new wells.
- Boring Logs and Well Logs (SCDHEC form 1903) signed by a SC Certified well driller for each new well.
- Tax map information, including list of names and addresses of adjacent property owners.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

KLM Environmental, LLC can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and invoice are due within 60 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available. Please be advised if the time frame exceeds 45 days between the date when the groundwater samples are collected and the date the report of findings is received, the analytical data will not be considered current and your contractor will not be reimbursed for a personnel mobilization to collect the groundwater samples, sample collection costs, laboratory analyses, or associated disposal costs.

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

The Program grants pre-approval for transportation of virgin petroleum contaminated soil and groundwater from the referenced site to a permitted treatment facility. The contaminated soil or groundwater 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 as an appendix to the final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or groundwater.

On all correspondence concerning this site, please reference **UST Permit # 05678.** If there are any questions concerning this project, please contact me at (803) 896-6664.

Sincerely,

Maia Milenkova, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Monitoring Well Approval
Site map
cc: Technical File (w/enc.)
KLM Environmental, LLC P O Box 2704, Goose Creek, SC 29445 (w/enc.)

SCDHEC/UST/09/23/08/MPM

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Approval Form

Approval is hereby granted to:	KLM Environmental, LLC
(On behalf of):	Worsley Companies, Inc.
UST Permit #:	**05678**
Facility:	Short Stop, 613 Musgrove Street, Clinton, SC
County:	Laurens

This approval is for the installation of nine groundwater monitoring wells (four temporary, four shallow and one deep). The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the 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 Maia Milenkova (tel: 803 896-6664 or e-mail: milenkmp@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 Issuance: September 23, 2008 **Approval #: UMW- 22063**

Maia Milenkova

Maia Milenkova, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

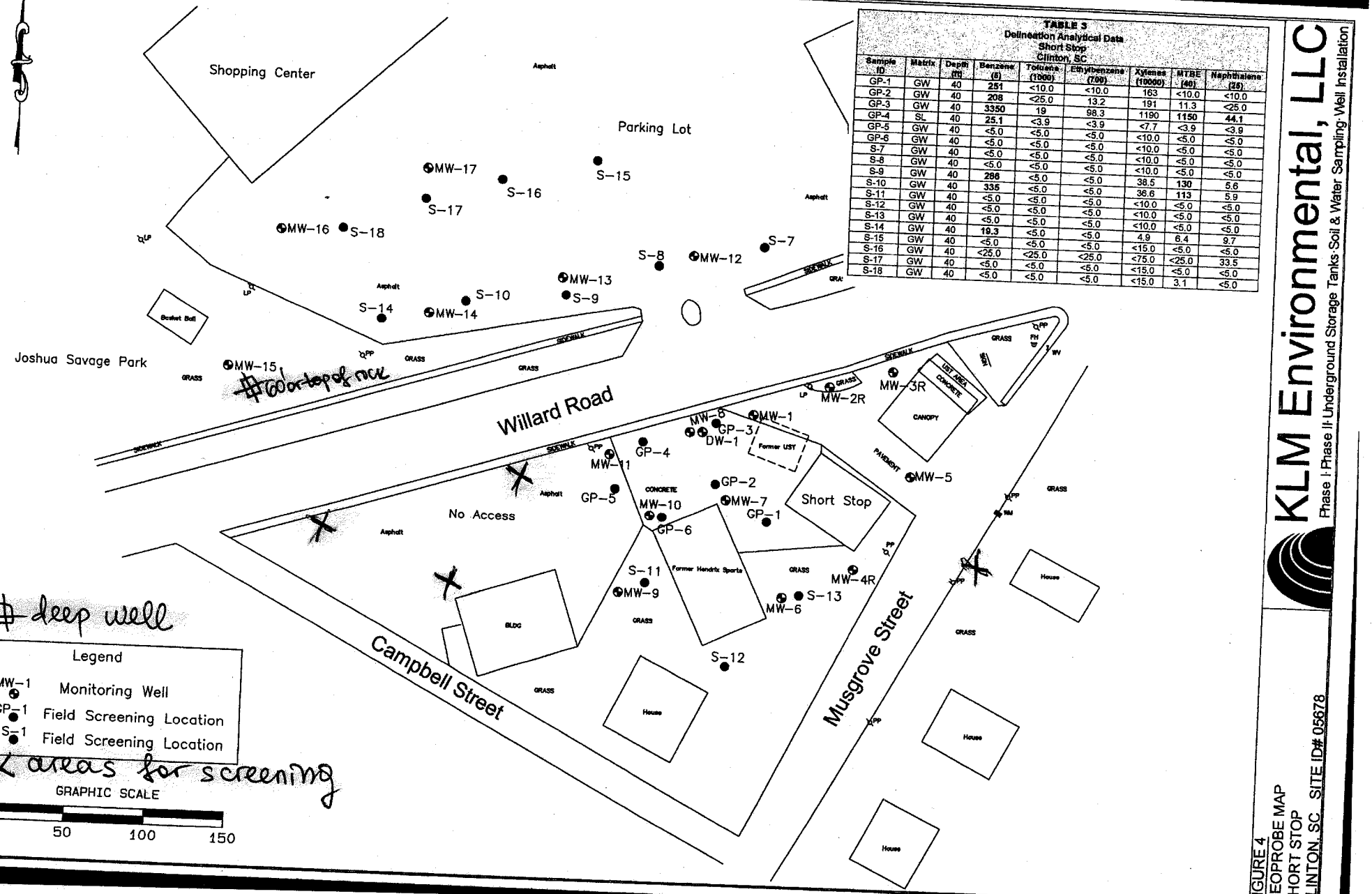


TABLE 3
Delineation Analytical Data
Short Stop
Clinton, SC

Sample ID	Matrix	Depth (ft)	Benzene (5)	Toluene (1000)	Ethylbenzene (700)	Xylenes (10000)	MTBE (40)	Naphthalene (25)
GP-1	GW	40	**251**	<10.0	<10.0	163	<10.0	<10.0
GP-2	GW	40	**208**	<25.0	13.2	191	11.3	<25.0
GP-3	GW	40	**3350**	19	98.3	1190	**1150**	**44.1**
GP-4	SL	40	**25.1**	<3.9	<3.9	<7.7	<3.9	<3.9
GP-5	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
GP-6	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-7	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-8	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-9	GW	40	**286**	<5.0	<5.0	<10.0	<5.0	<5.0
S-10	GW	40	**335**	<5.0	<5.0	38.5	**130**	5.6
S-11	GW	40	<5.0	<5.0	<5.0	36.6	**113**	5.9
S-12	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-13	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
S-14	GW	40	**19.3**	<5.0	<5.0	<10.0	<5.0	<5.0
S-15	GW	40	<5.0	<5.0	<5.0	4.9	6.4	9.7
S-16	GW	40	<25.0	<25.0	<25.0	<15.0	<5.0	<5.0
S-17	GW	40	<5.0	<5.0	<5.0	<75.0	<25.0	33.5
S-18	GW	40	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0

KLM Environmental, LLC
Phase I- Phase II- Underground Storage Tanks- Soil & Water Sampling- Well Installation

FIGURE 4
GEOPROBE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

Approved Cost Agreement 33781

Facility: 05678 SHORT STOP
MILENKMP
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		B TAX MAPS	1.0000	50.00	50.00
04 MOB/DEMOB					
		A EQUIPMENT	2.0000	575.00	1,150.00
		B PERSONNEL	4.0000	290.00	1,160.00
06 SOIL BORINGS (DRILLED)					
		A SOIL BORINGS & FLD SCREENING	160.0000	17.00	2,720.00
08 ABANDONMENT					
		ABANDONMENT	160.0000	5.00	800.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	220.0000	38.00	8,360.00
10 SAMPLE COLLECTION					
		A GROUND WATER	6.0000	55.00	330.00
		D GROUNDWATER NO-PURGE	17.0000	35.00	595.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	27.0000	100.00	2,700.00
		BB 1,2-DCA	5.0000	10.75	53.75
		E LEAD	23.0000	20.00	460.00
		F EDB	7.0000	55.00	385.00
		K NITRATE	5.0000	20.00	100.00
		L SULFATE	5.0000	20.00	100.00
		M FERROUS IRON	5.0000	20.00	100.00
		P 8 OXYGENATES	5.0000	85.00	425.00
16 SUBSEQUENT SURVEY					
		SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	1.0000	90.00	90.00
		C SOIL (TREATMENT/DISPOSAL)	6.0000	50.00	300.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	20,138.75	3,020.81
			Total Amount		23,159.56

THE DESTINY CORPORATION
P.O. Box 556
Lavonia, Georgia 30553

RECEIVED
DEC 17 2008
UNDERGROUND STORAGE
TANK PROGRAM

Friday, December 05, 2008
3:15pm

SC DHEC
ATTN: Miya
803-896-6245

This letter is to officially request a copy of the release letter (concern letter) on file for permit # 05678 (subsequent lenders/owners will not be held liable) and to request a letter for permit # 19079 stating that there are no pollution problems. Please fax a copy of these letters to our office 706-376-1215.

If you have any questions, please do not hesitate to call.

Thank You

Erika Acosta
Corporate Secretary
706-768-7410

Arthur D Gast III
President, Owner
706-476-4562

05678 – 1 tech
19079 – 1 tech

UST DOCKET

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MR ARTHUR D GAST III
THE DESTINY CORPORATION
P O BOX 556
LAVONIA GA 30553

DEC 22 2008

Re: Letter of Concern
Short Stop, 613 Musgrove St., Clinton, SC
UST Permit # 05678
Release reported December 30, 1991
Correspondence (via fax) received December 17, 2008
Laurens County

Dear Mr. Gast:

You requested that this office provide you with an update on the environmental conditions at the above referenced facility.

We received a report on December 30, 1991 documenting soil contamination in the subsurface in the vicinity of the former underground storage tanks. Our records revealed that five underground storage tanks (USTs) owned by Mr. Kenneth Frazier were removed on September 23, 1998. One multiple petroleum tank, located near the corner of Musgrove Street and Willard Road has been in operation since 2005 when you purchased the property at this location. Please note, that UST was registered under a different permit number (UST#19079). In response to the initial report of contamination, we directed Worsley Company, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. An assessment report is anticipated in December 2008.

The 1991 release of petroleum products from the USTs is qualified to receive funding under the conditions of the State Underground Petroleum Environmental Response Bank (SUPERB) Act. This means that reasonable costs up to $1,000,000 can be paid by the SUPERB account for site rehabilitation actions associated with this release.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

UST DOCKET
Tech

In 1997, the General Assembly amended Section 80 (B) of the SUPERB Act to clarify that persons who hold "indicia of ownership" primarily to protect a security interest in property impacted by a release from a UST are exempt from the requirements to conduct site rehabilitation activities other than necessary abatement actions to eliminate any imminent threat to human health or the environment. The "indicia of ownership" exemption includes those persons who acquire title to property through foreclosure or other means necessary to protect their security interest, provided that person does not participate in the management of the UST and is not otherwise engaged in petroleum production, marketing, or refining. This applies equally to subsequent lenders who acquire the USTs and property through foreclosure in the future.

The Program is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Department should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If you have any questions, please do not hesitate to call me at (803) 896-6664.

Sincerely,

Maia Milenkova, Hydrogeologist
Assessment Section
Underground Storage Tank Program
Bureau of Land & Waste Management

cc: Technical File

SCDHEC/UST/12/17/08MPM

RECEIVED
DEC 2 9 2008
UNDERGROUND STORAGE
TANK PROGRAM

TIER II ADDENDUM

Short Stop
Clinton, South Carolina
Site ID# 05678

KLM Environmental, LLC
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

December 19th, 2008

Prepared for:

Ms. Maia Milenkova
Assessment Section
SCDHEC
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC.
PO Box 2704
Goose Creek, SC 29445
(843) 870-4285 / *fax: 797-1893*

Project # 05143.2

UST DOCKET 8 tech

SIGNATURE PAGE

This report entitled **"TIER II ADDENDUM" for Short Stop** has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

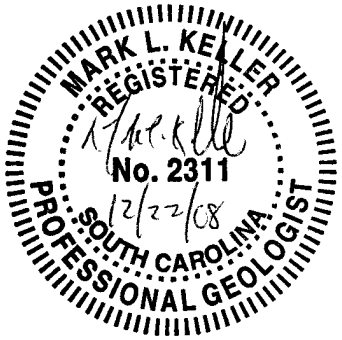
Prepared By:

A duffinger For:
J. Micah Benhett
Hydrogeologist

Reviewed By:

M.L. Keller
Mark L. Keller, PG
President

12/22/08
Date



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1.0 INTRODUCTION

The Short Stop site is located at 613 Musgrove Street in Clinton, South Carolina (Appendix A, Figure 1). Currently there is one 12,000 gasoline UST located at the site in the tank basin. There are three dispensers associated with the tank located at the front of the store beneath the canopy. A release was reported on December 30, 1991 and assessment activities have been going on since that date.

2.0 ASSESSMENT INFORMATION

2.1 Piezometric Data

Figure 2 in Appendix A serves as the comprehensive site map showing the locations of the twenty-one monitoring wells located at the Short Stop site. Monitoring wells MW-18, MW-19, and DW-2 were installed on December 3rd, 2008 as part of this assessment. DW-2 was installed without a casing by direction of the SCDHEC Project Manager on December 3rd, 2008. The well logs for the recent well installation event, along with field boring logs are provided in Appendix B. Piezometric data for all monitoring wells associated with the release at the Short Stop can be found in Table 2. A piezometric map is included in Appendix A as Figure 3.

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	12/8/08	103.47	20 - 40	--	28.95	74.52
MW-2R	12/8/08	105.11	20 - 40	--	31.46	73.65
MW-3R	12/8/08	105.67	20 - 40	--	31.39	74.28
MW-4R	12/8/08	104.44	20 - 40	--	31.10	73.34
MW-5	12/8/08	105.62	20 - 40	--	31.58	74.04
MW-6	12/8/08	103.87	20 - 40	--	30.47	73.40
MW-7	12/8/08	102.55	20 - 40	--	29.38	73.17
MW-8	12/8/08	101.82	20 - 40	--	28.56	73.26
MW-9	12/8/08	102.03	20 - 40	--	29.34	72.69
MW-10	12/8/08	102.30	20 - 40	--	29.39	72.91
MW-11	12/8/08	100.45	20 - 40	--	27.44	73.01
MW-12	12/8/08	102.40	20 - 40	--	28.29	74.11
MW-13	12/8/08	101.91	20 - 40	--	28.89	73.02
MW-14	12/8/08	101.77	20 - 40	--	29.37	72.40
MW-15	12/8/08	94.60	11 - 31	--	23.35	71.25
MW-16	12/8/08	101.26	19 - 39	--	29.44	71.82
MW-17	12/8/08	101.69	20 - 40	--	29.11	72.58
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
DW-1	12/8/08	102.23	58 - 63	--	29.02	73.21
DW-2	12/8/08	94.62	40-60	--	23.31	71.31

*** Telescoping wells not used to construct the shallow piezometric map**

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements. Historical groundwater elevations are provided in Appendix F.

2.2 Vertical and Horizontal Plume Delineation

Horizontal delineation of the contaminant plume was accomplished with the use of a drill rig on November 17th, 2008. All samples collected were submitted to Pace Analytical Services for analysis. The boring locations and laboratory confirmation data are identified on Figure 4 in Appendix A and the laboratory confirmation results are provided in Table 2 and in Appendix C.

TABLE 2
Delineation Analytical Data
Short Stop
Clinton, SC

Sample ID	Matrix	Depth (ft)	Benzene (5)	Toluene (1000)	Ethylbenzene (700)	Xylenes (10000)	MTBE (40)	Naphthalene (25)
SB-1	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
SB-2	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
SB-3	GW	40	<5.0	<5.0	<5.0	3.5	3.3	<5.0
SB-4	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0

Permanent monitoring wells were sampled on December 8th, 2008 and these samples were submitted to Pace Analytical Services (SCDHEC Certification # 99006). Field sampling sheets from this sampling event noting time date and purge data are provided in Appendix D. Analytical results are provided in Tables 3 through 5 and in Appendix C. A map is provided as Figure 5 in Appendix A showing the sample results along with the well locations. Figure 6 depicts the extent of the contaminant plume based on the well sampling results. Figures 7 through 9 provide a detailed cross section of the site based on information obtained during the well installation activities.

A disposal manifest for contaminated soil and groundwater generated during the assessment is provided in Appendix E. Five drums of contaminated soil and one drum of groundwater were generated during drilling and sampling activities. Results for all wells sampled are as follows:

TABLE 3
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-1	10/31/07	FP	FP	FP	FP	FP	FP	FP	FP
	7/21/08	FP	FP	FP	FP	FP	FP	FP	FP
	12/8/08	**12600**	**39400**	**6180**	**36000**	**11700**	**943**	NS	NS
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02
	12/8/08	**505**	47.0	14.6	240	10.9	<5.0	<5.0	NS
MW-3R	7/21/08	**577**	**3850**	244	991	**892**	**<50.0**	<5.0	<0.02
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019

TABLE 3 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	**5**	**1000**	**700**	**10000**	**40**	**25**	**15**	**0.05**
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02

Note: All results in µg/l. Numbers in bold exceed RBSL. NS = Not Sampled for that parameter.
FP = Free Product

TABLE 4
Summary of Oxygenate Data
Short Stop
Clinton, SC

Well #	Date Sampled	Ethanol	(ETBE)	(DIPE)	(ETBA)	(TBA)	(TAME)	(TAA)	(TBF)
RBSL	--	**10000**	**47**	**150**	--	**1400**	**128**	**240**	--
MW-18	12/8/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-19	12/8/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
DW-2	12/8/08	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

Note: All results in µg/l. FP = Free Product

TABLE 5
Summary of Auxiliary Data
Short Stop
Clinton, SC

Well #	Date Sampled	Methane ug/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	1,2 DCA ug/l	PAH's
**	--	--	--	--	--	**5**	--
MW-18	12/8/08	NS	<0.50	1.9	2.2	<5.0	NS
MW-19	12/8/08	NS	<0.50	0.53	<1.0	<5.0	NS
DW-2	12/8/08	NS	<0.50	0.87	3.2	<5.0	NS

Note: NS = Not Sampled for that parameter. FP = Free Product

3.0 CONCLUSIONS

Results from the contamination delineation indicate contaminants exist at the Short Stop in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Delineation of the contaminant plume appears to be complete at this time. Benzene, Naphthalene, Lead, and MTBE are present in a number of monitoring wells at the site above RBSLs and are the prevalent chemicals of concern.

Based on the results of the latest sampling event, KLM recommends a series of aggressive fluid recovery events to attempt to lower contaminant levels across the site. Following the AFVR events, a comprehensive sampling event should be conducted in order to track the effectiveness of the AFVR events. Periodic sampling of the site should continue in order to ensure the contaminant plume remains defined.

4.0 REFERENCES

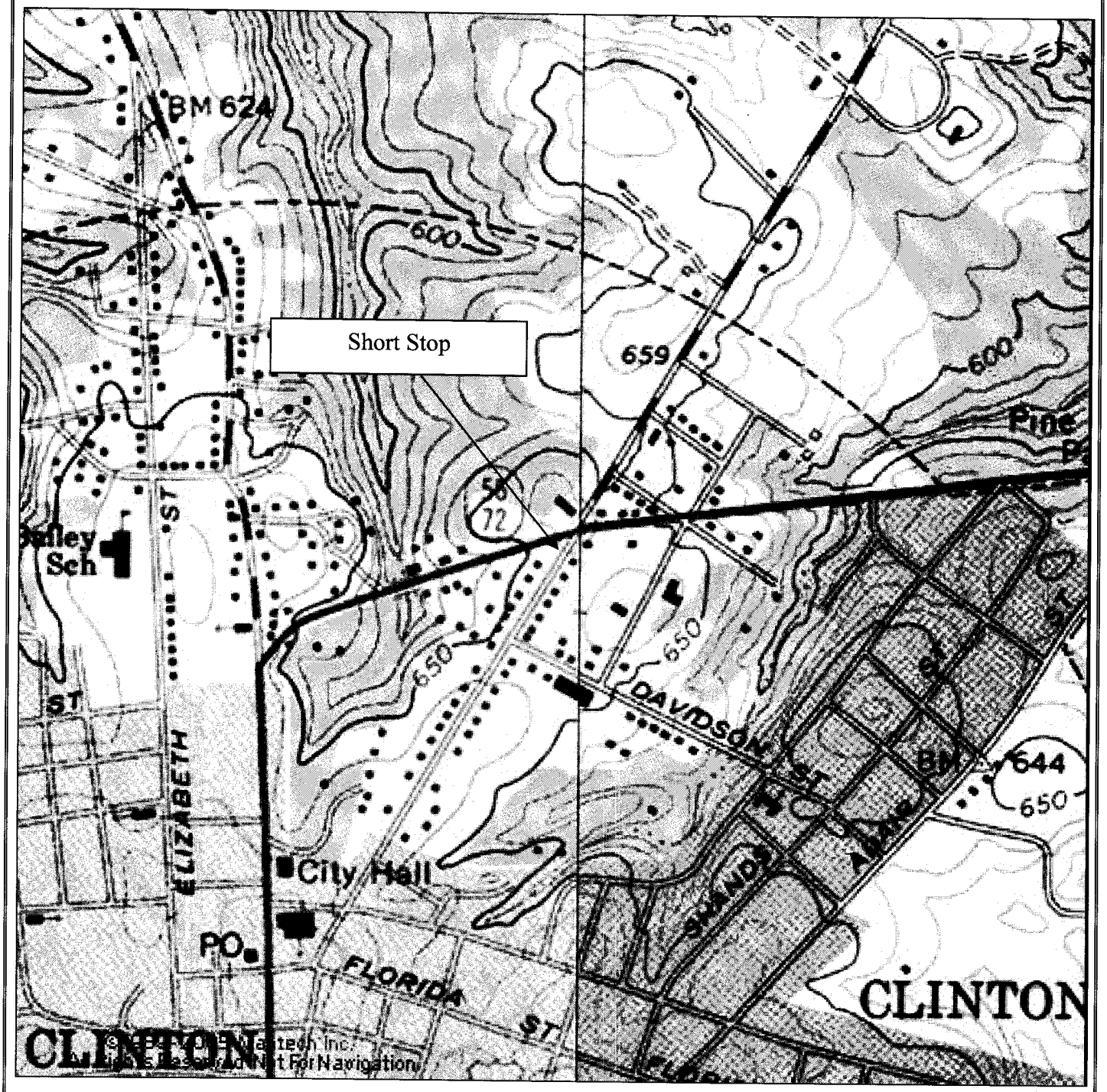
KLM Environmental, LLC, *Tier II Assessment*, August, 2008.

KLM Environmental, LLC, *Gauging Event*, November, 2007.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *Underground Storage Tank Registry Website www.scdhec.gov/ust/scustr/index.asp*

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *Tier II Assessment*, May 15, 2000.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Risk-Based Corrective Action for Petroleum Releases*, May 15, 2001.



KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

Figure 1
USGS Map
Short Stop
Clinton, SC
Project # 05143

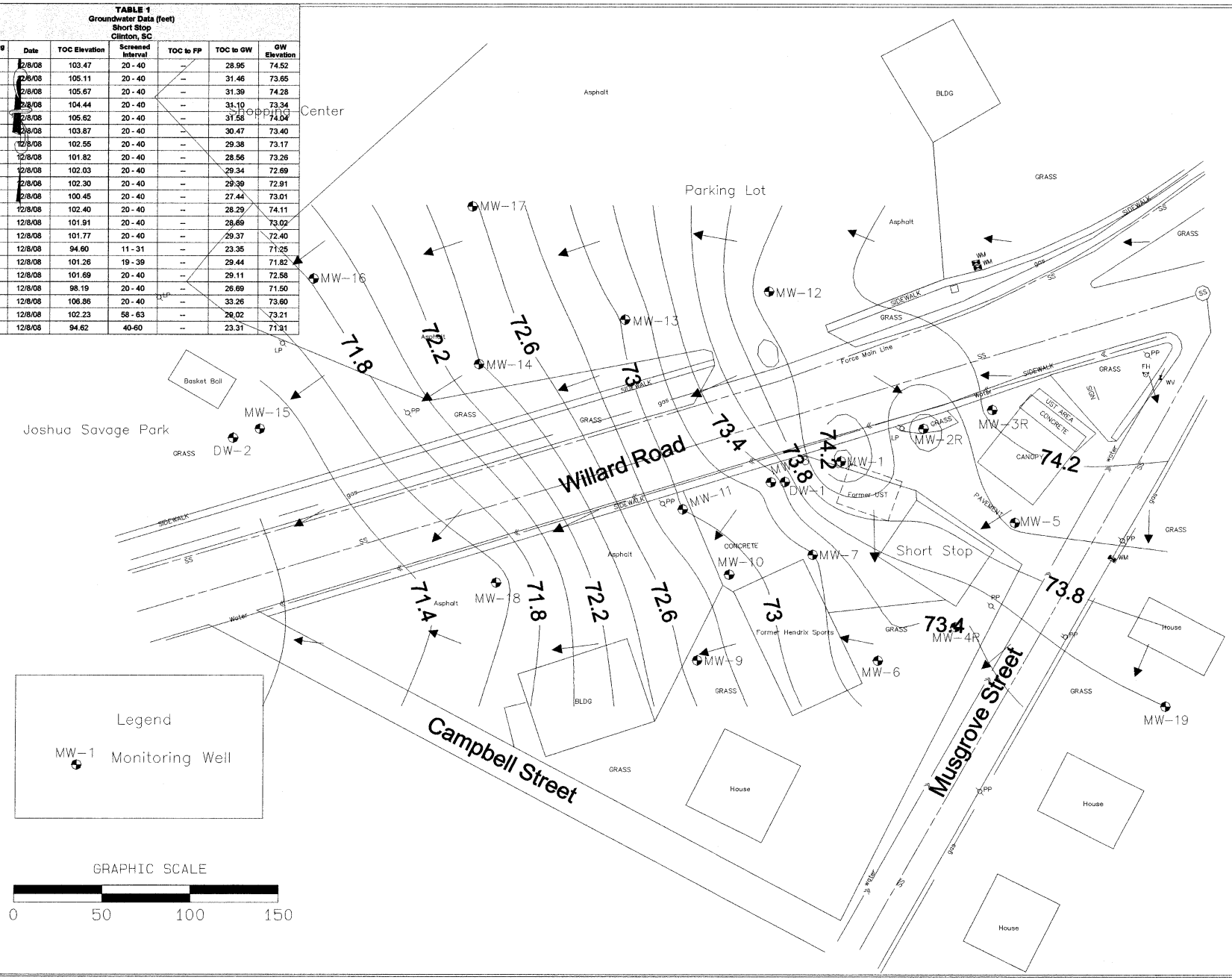
FIGURE 2
SITE MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

KLM Environmental, LLC

Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	12/8/08	103.47	20 - 40	--	28.95	74.52
MW-2R	12/8/08	105.11	20 - 40	--	31.46	73.65
MW-3R	12/8/08	105.67	20 - 40	--	31.39	74.28
MW-4R	12/8/08	104.44	20 - 40	--	31.10	73.34
MW-5	12/8/08	105.62	20 - 40	--	31.58	74.04
MW-6	12/8/08	103.87	20 - 40	--	30.47	73.40
MW-7	12/8/08	102.55	20 - 40	--	29.38	73.17
MW-8	12/8/08	101.82	20 - 40	--	28.56	73.26
MW-9	12/8/08	102.03	20 - 40	--	29.34	72.69
MW-10	12/8/08	102.30	20 - 40	--	29.39	72.91
MW-11	12/8/08	100.45	20 - 40	--	27.44	73.01
MW-12	12/8/08	102.40	20 - 40	--	28.29	74.11
MW-13	12/8/08	101.91	20 - 40	--	28.89	73.02
MW-14	12/8/08	101.77	20 - 40	--	29.37	72.40
MW-15	12/8/08	94.60	11 - 31	--	23.35	71.25
MW-16	12/8/08	101.26	19 - 39	--	29.44	71.82
MW-17	12/8/08	101.69	20 - 40	--	29.11	72.58
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
DW-1	12/8/08	102.23	58 - 63	--	29.02	73.21
DW-2	12/8/08	94.62	40-60	--	23.31	71.31



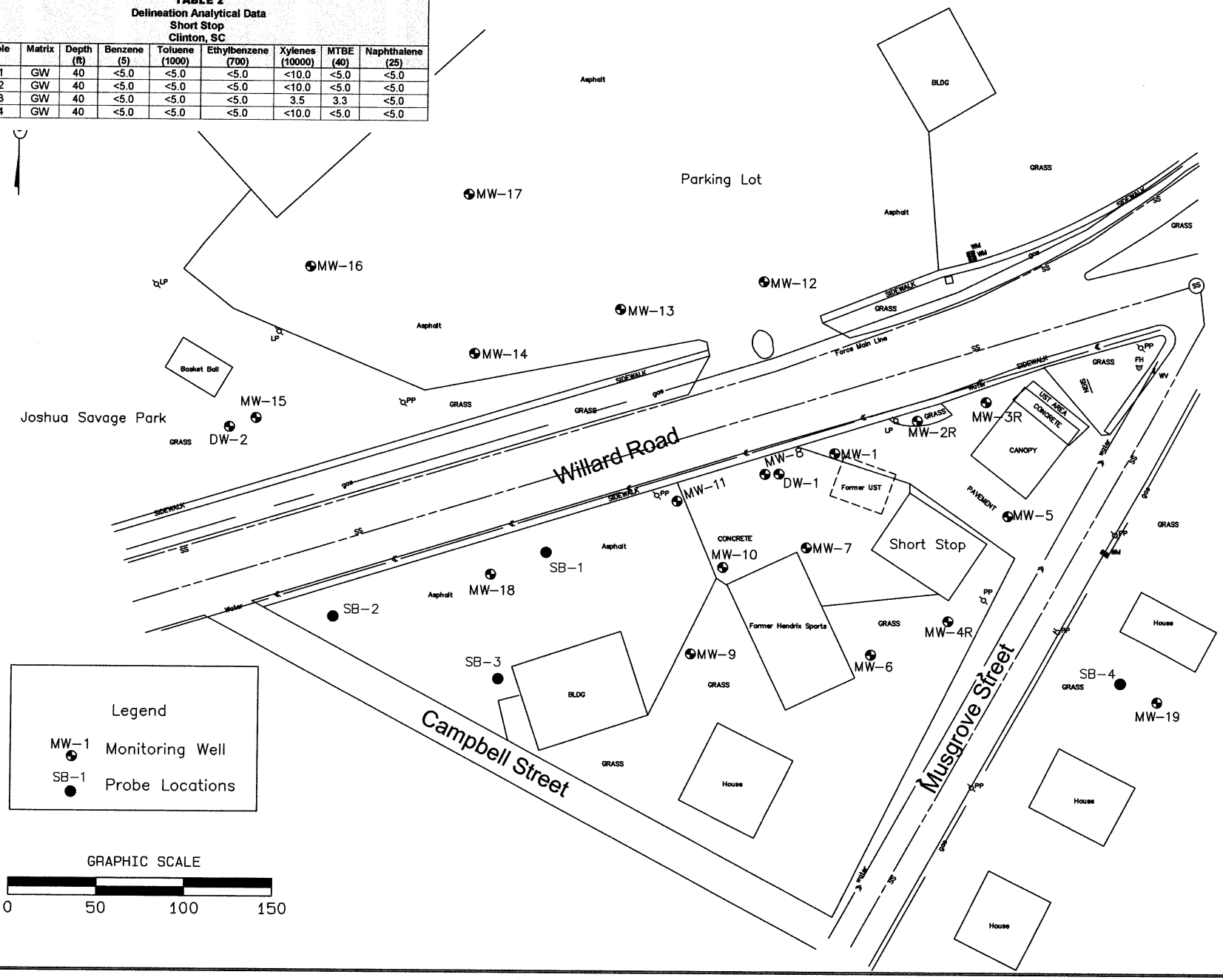
KLM Environmental, LLC

Phase I- Phase II- Underground Storage Tanks-Soil & Water Sampling- Well Installation

FIGURE 3
PIEZOMETRIC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 2
Delineation Analytical Data
Short Stop
Clinton, SC

Sample ID	Matrix	Depth (ft)	Benzene (5)	Toluene (1000)	Ethylbenzene (700)	Xylenes (10000)	MTBE (40)	Naphthalene (25)
SB-1	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
SB-2	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0
SB-3	GW	40	<5.0	<5.0	<5.0	3.5	3.3	<5.0
SB-4	GW	40	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

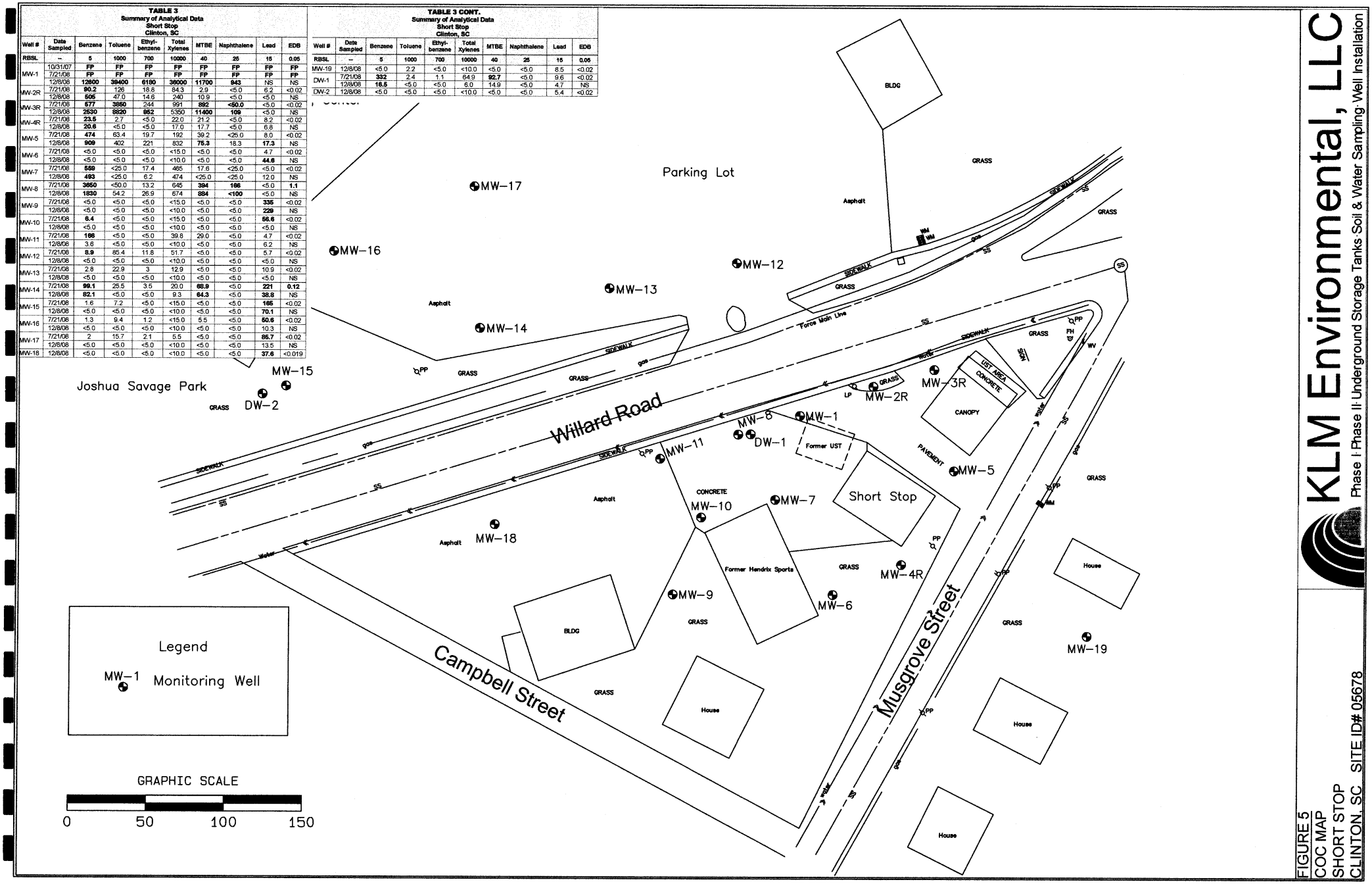
FIGURE 4
PROBE LOCATION MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 3
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-1	10/31/07	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	7/21/08	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	12/8/08	**12800**	**39400**	**6190**	**36000**	**11700**	**943**	NS	NS
MW-2R	7/21/08	**90.2**	126	18.6	84.3	2.9	<5.0	6.2	<0.02
	12/8/08	**506**	47.0	14.6	240	10.9	<5.0	<5.0	NS
MW-3R	7/21/08	**577**	**3950**	244	991	**892**	**<50.0**	<5.0	<0.02
	12/8/08	**2530**	**8820**	**952**	5350	**11400**	**109**	<5.0	NS
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**58.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-11	7/21/08	**186**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**165**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019

TABLE 3 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02



KLM Environmental, LLC

Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

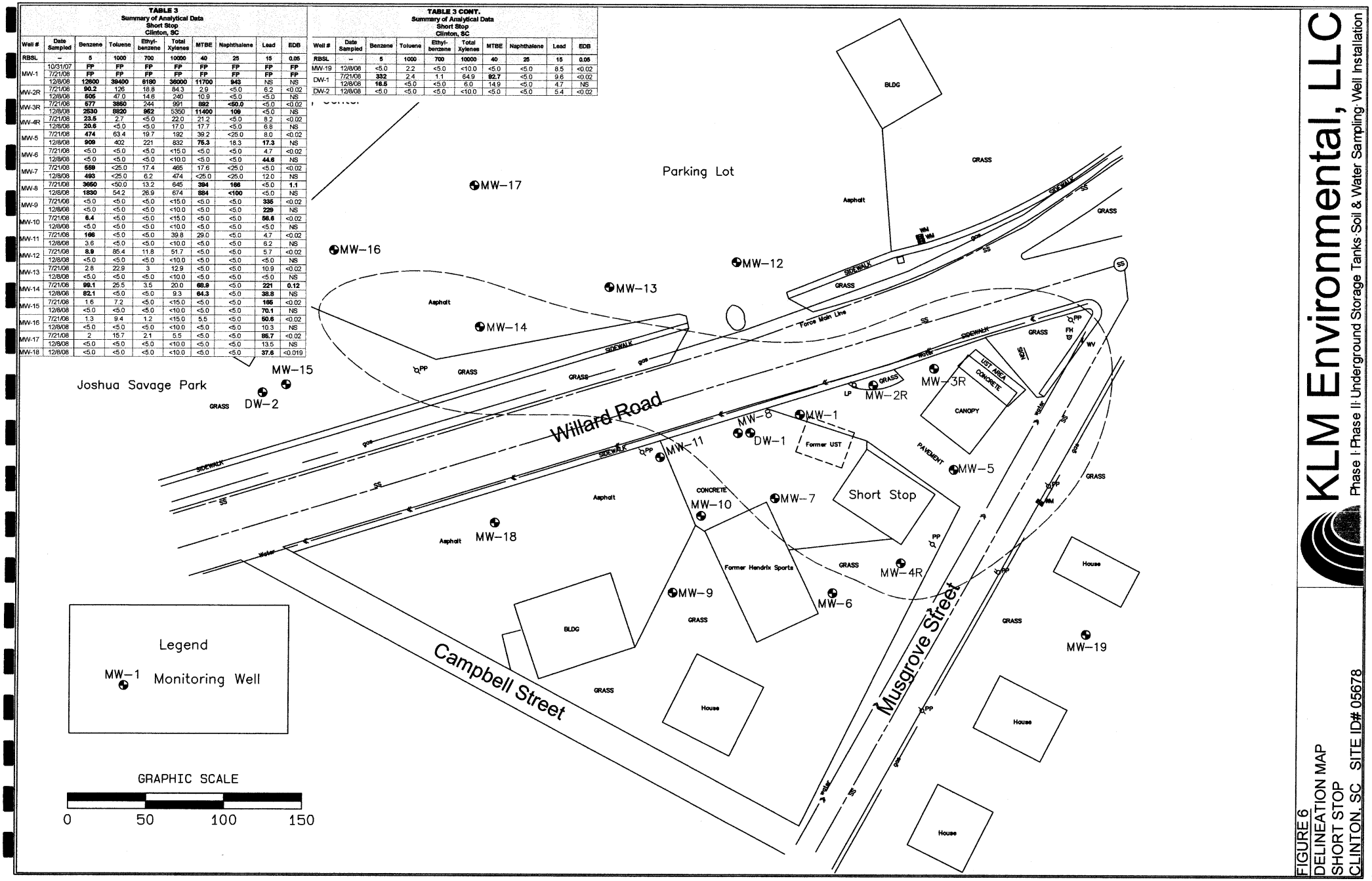
FIGURE 5
COC MAP
SHORT STOP
CLINTON, SC SITE ID# 05678

TABLE 3
Summary of Analytical Data
Short Stop
Clinton, SC

Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-1	10/31/07	FP	FP	FP	FP	FP	FP	FP	FP
	7/21/08	FP	FP	FP	FP	FP	FP	FP	FP
	12/8/08	**12600**	**39400**	**6190**	**36000**	**11700**	**943**	NS	NS
MW-2R	7/21/08	**90.2**	126	18.8	84.3	2.9	<5.0	6.2	<0.02
	12/8/08	**506**	47.0	14.6	249	10.9	<5.0	<5.0	NS
MW-3R	7/21/08	**577**	**3860**	244	991	**882**	**<50.0**	<5.0	<0.02
	12/8/08	**2530**	**8820**	**962**	5350	**11400**	**109**	<5.0	NS
MW-4R	7/21/08	**23.5**	2.7	<5.0	22.0	21.2	<5.0	8.2	<0.02
	12/8/08	**20.6**	<5.0	<5.0	17.0	17.7	<5.0	6.8	NS
MW-5	7/21/08	**474**	63.4	19.7	192	39.2	<25.0	8.0	<0.02
	12/8/08	**909**	402	221	832	**75.3**	18.3	**17.3**	NS
MW-6	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**44.6**	NS
MW-7	7/21/08	**559**	<25.0	17.4	465	17.6	<25.0	<5.0	<0.02
	12/8/08	**493**	<25.0	6.2	474	<25.0	<25.0	12.0	NS
MW-8	7/21/08	**3650**	<50.0	13.2	645	**394**	**166**	<5.0	**1.1**
	12/8/08	**1830**	54.2	26.9	674	**884**	**<100**	<5.0	NS
MW-9	7/21/08	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**335**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**229**	NS
MW-10	7/21/08	**6.4**	<5.0	<5.0	<15.0	<5.0	<5.0	**56.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-11	7/21/08	**166**	<5.0	<5.0	39.8	29.0	<5.0	4.7	<0.02
	12/8/08	3.6	<5.0	<5.0	<10.0	<5.0	<5.0	6.2	NS
MW-12	7/21/08	**8.9**	85.4	11.8	51.7	<5.0	<5.0	5.7	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-13	7/21/08	2.8	22.9	3	12.9	<5.0	<5.0	10.9	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	NS
MW-14	7/21/08	**99.1**	25.5	3.5	20.0	**68.9**	<5.0	**221**	**0.12**
	12/8/08	**82.1**	<5.0	<5.0	9.3	**64.3**	<5.0	**38.8**	NS
MW-15	7/21/08	1.6	7.2	<5.0	<15.0	<5.0	<5.0	**185**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**70.1**	NS
MW-16	7/21/08	1.3	9.4	1.2	<15.0	5.5	<5.0	**50.6**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	10.3	NS
MW-17	7/21/08	2	15.7	2.1	5.5	<5.0	<5.0	**85.7**	<0.02
	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	13.5	NS
MW-18	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**37.6**	<0.019

TABLE 3 CONT.
Summary of Analytical Data
Short Stop
Clinton, SC

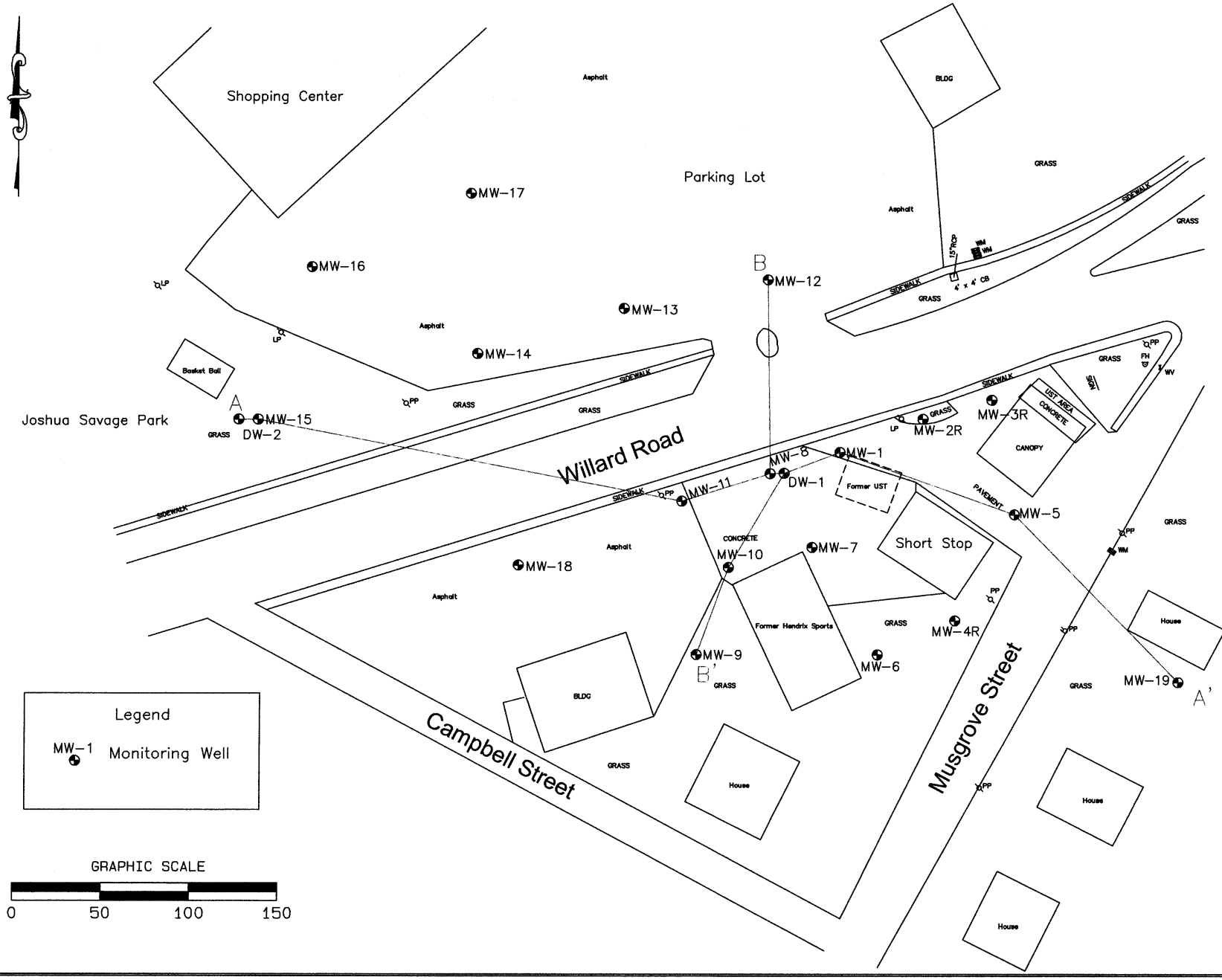
Well #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Lead	EDB
RBSL	--	5	1000	700	10000	40	25	15	0.05
MW-19	12/8/08	<5.0	2.2	<5.0	<10.0	<5.0	<5.0	8.5	<0.02
DW-1	7/21/08	**332**	2.4	1.1	64.9	**92.7**	<5.0	9.6	<0.02
	12/8/08	**16.5**	<5.0	<5.0	6.0	14.9	<5.0	4.7	NS
DW-2	12/8/08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	5.4	<0.02



KLM Environmental, LLC

Phase I- Phase II- Underground Storage Tanks-Soil & Water Sampling-Well Installation

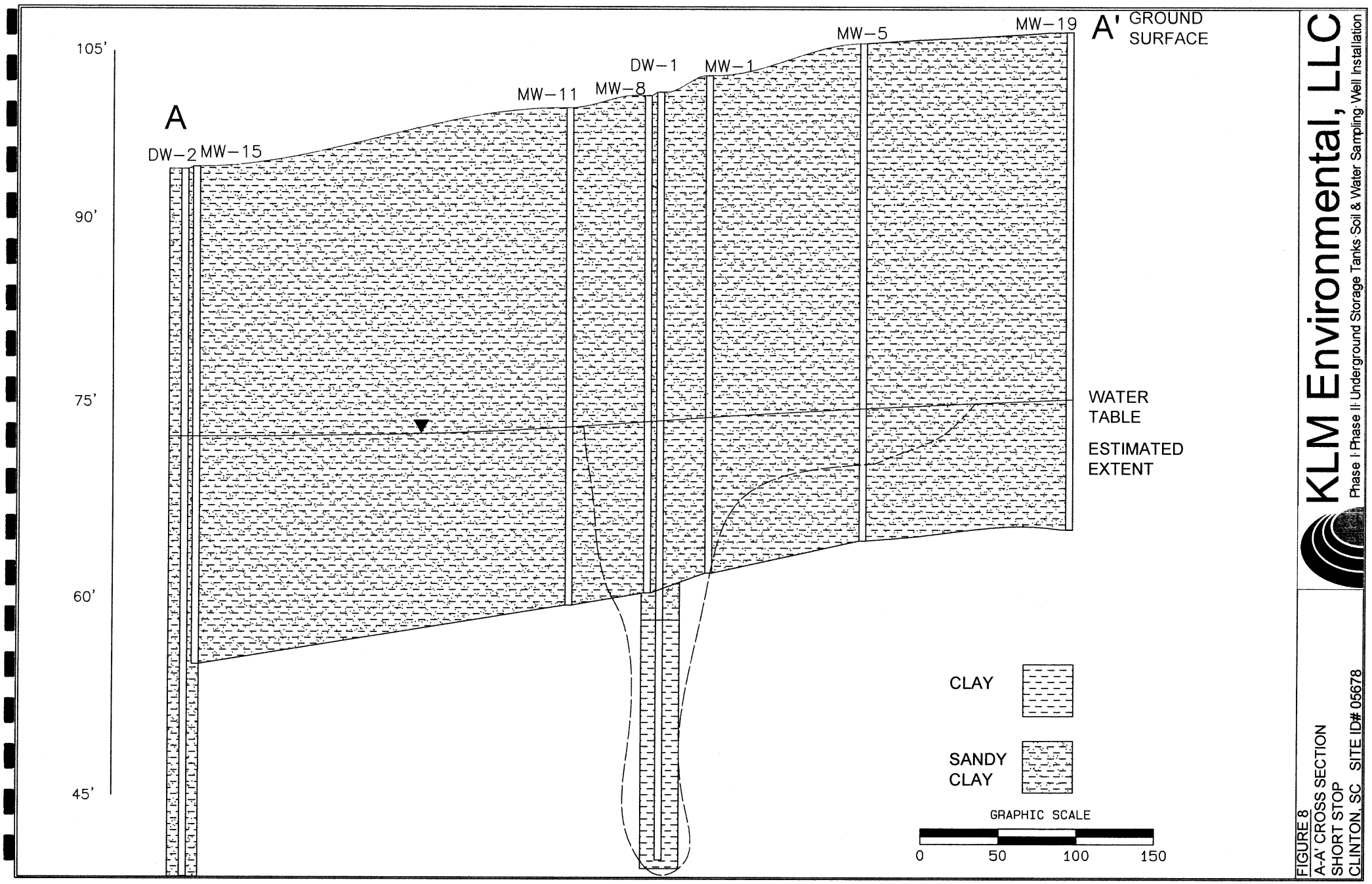
FIGURE 6
DELINEATION MAP
SHORT STOP
CLINTON, SC SITE ID# 05678



KLM Environmental, LLC

Phase I: Phase II: Underground Storage Tanks: Soil & Water Sampling: Well Installation

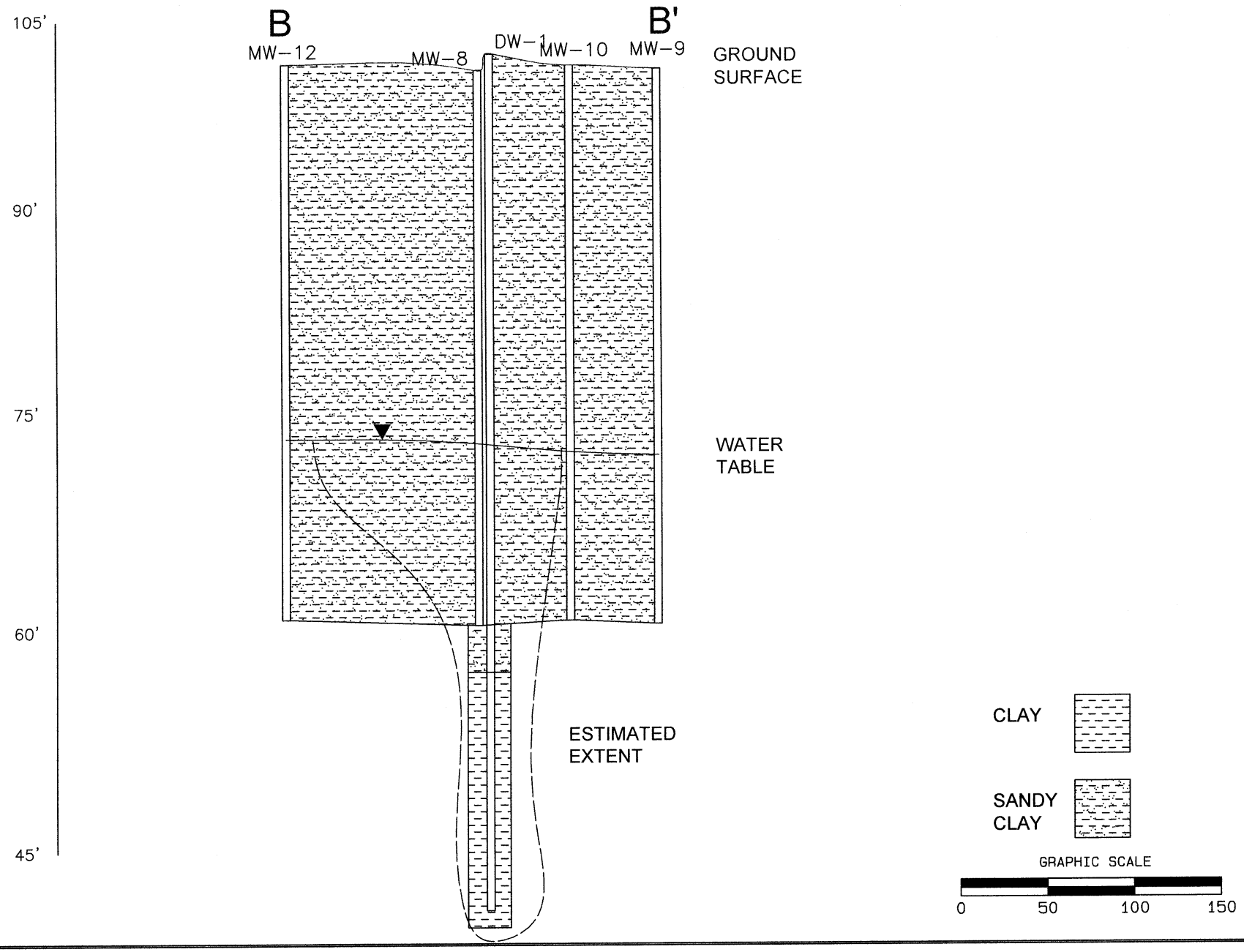
FIGURE 7
CROSS SECTION MAP
SHORT STOP
CLINTON, SC SITE ID# 05678



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 8
A-A' CROSS SECTION
SHORT STOP
CLINTON, SC SITE ID# 05678



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

FIGURE 9
B-B' CROSS SECTION
SHORT STOP
CLINTON, SC SITE ID# 05678

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: PO Box 3227 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-18

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See attached geologist log for detailed	40	40
lithology		
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22063

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: 12/2/2008
40 ft. Date Completed: 12/2/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 20 ft. depth
in. to ft, depth
Height Above ☐ Below ☐
Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20.0
Set Between: 20 ft. and 40 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app. 35' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18 ft. to 40 ft.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 12/2/2008

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

DHEC 1903 (07/2003)

COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. _____
(last) (first)
Address: PO Box 3227 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: _____ Home: _____

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip: _____
Latitude: _____ Longitude: _____

3. PUBLIC SYSTEM NAME: _____ PUBLIC SYSTEM NUMBER: MW-19

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See attached geologist log for detailed	40	40
lithology		
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22063

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) 40 ft. Date Started: 12/2/2008 Date Completed: 12/2/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 20 ft. depth
_____ in. to _____ ft. depth
Height Above ☐ Below ☐ Surface _____ ft
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20.0
Set Between: 20 ft. and 40 ft
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app. 35' at TOD ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M
Pumping Test: ☐ Yes (please enclose) ☒ No
Yield: _____

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 18 ft. to 40 lt.
Effective size #2 Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☒
Mfr. Name: _____ Model No.: _____
H.P. _____ volts _____ Length of drop pipe - ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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: 12/2/2008
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: PO Box 3227 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: DW-2

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See attached geologist log for detailed	60	60
lithology		
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22063

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) 60 ft. Date Started: 12/2/2008 Date Completed: 12/2/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2" in. to 40.0 ft. depth
in. to ft, depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 20.0
Set Between: 40 ft. and 60 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app. 45' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 38 ft. to 60.0 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 30 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 12/2/2008

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

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

CYPRESS BAY℠ GEOLOGICAL
262 Geology Lane
Walterboro, South Carolina 29488
email: jpeurifoy@cypressbay.com
www.cypressbay.com
Office: 843.538.4017
Fax: 866.466.5658
Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-18
Client:	Worsley			Date:	12/2/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peurifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 0.5 ft	Asphalt		
0.5 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Walterboro, South Carolina 29488
email: jpeurifoy@cypressbay.com
www.cypressbay.com
Office: 843.538.4017
Fax: 866.466.5658
Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	MW-19
Client:	Worsley			Date:	12/2/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peurifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 35 ft	Tanish orange sandy clay		
35 - 40 ft	Moist tanish orange sandy clay		Terminated at 40 ft.

Form BL-1v1/2006

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Mobile: 843.908.5050
Pager: 843.908.5050

FIELD BORING LOG

Site:	Short Stop			Boring Number:	DW-2
Client:	Worsley			Date:	12/2/08
Rig:	Drill	Drill Method:	Hollow Stem Auger	Driller/Crew:	Jim Peurifoy
Drill Start:		Drill End:		GW Level/Time:	

Depth	Description	SPT Blows	Comments
0 - 35 ft	Tanish orange sandy clay		
35 - 60 ft	Moist tanish orange sandy clay		Terminated at 60 ft.

Form BL-1v1/2006

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

December 01, 2008

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9232575

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2008. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9232575

Charlotte Certification IDs
Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs
Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9232575

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9232575001	**SB-1**	Water	11/17/08 13:00	11/19/08 09:30
9232575002	**SB-2**	Water	11/17/08 14:00	11/19/08 09:30
9232575003	**SB-3**	Water	11/17/08 15:00	11/19/08 09:30
9232575004	**SB-4**	Water	11/17/08 16:00	11/19/08 09:30

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9232575

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9232575001	**SB-1**	EPA 8260	MCK	12
9232575002	**SB-2**	EPA 8260	MCK	12
9232575003	**SB-3**	EPA 8260	MCK	12
9232575004	**SB-4**	EPA 8260	MCK	12

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9232575

Sample: SB-1 **Lab ID: 9232575001** Collected: 11/17/08 13:00 Received: 11/19/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		11/23/08 08:55	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		11/23/08 08:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		11/23/08 08:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		11/23/08 08:55	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		11/23/08 08:55	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/23/08 08:55	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		11/23/08 08:55	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		11/23/08 08:55	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		11/23/08 08:55	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		11/23/08 08:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	79-120		1		11/23/08 08:55	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		11/23/08 08:55	2037-26-5	

Sample: SB-2 **Lab ID: 9232575002** Collected: 11/17/08 14:00 Received: 11/19/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		11/23/08 09:12	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		11/23/08 09:12	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		11/23/08 09:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		11/23/08 09:12	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		11/23/08 09:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/23/08 09:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		11/23/08 09:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		11/23/08 09:12	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		11/23/08 09:12	460-00-4	
Dibromofluoromethane (S)	94	%	85-115		1		11/23/08 09:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		11/23/08 09:12	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		11/23/08 09:12	2037-26-5	

Sample: SB-3 **Lab ID: 9232575003** Collected: 11/17/08 15:00 Received: 11/19/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		11/23/08 09:29	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		11/23/08 09:29	100-41-4	
Methyl-tert-butyl ether	**3.3J**	ug/L	5.0	2.0	1		11/23/08 09:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		11/23/08 09:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		11/23/08 09:29	108-88-3	
Xylene (Total)	**3.5J**	ug/L	10.0	2.7	1		11/23/08 09:29	1330-20-7	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9232575

Sample: SB-3 **Lab ID: 9232575003** Collected: 11/17/08 15:00 Received: 11/19/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
m&p-Xylene	ND	ug/L	10.0	2.7	1		11/23/08 09:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		11/23/08 09:29	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		11/23/08 09:29	460-00-4	
Dibromofluoromethane (S)	94	%	85-115		1		11/23/08 09:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	79-120		1		11/23/08 09:29	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		11/23/08 09:29	2037-26-5	

Sample: SB-4 **Lab ID: 9232575004** Collected: 11/17/08 16:00 Received: 11/19/08 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		11/23/08 09:46	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		11/23/08 09:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		11/23/08 09:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		11/23/08 09:46	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		11/23/08 09:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		11/23/08 09:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		11/23/08 09:46	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		11/23/08 09:46	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		11/23/08 09:46	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		11/23/08 09:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		11/23/08 09:46	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		11/23/08 09:46	2037-26-5	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9232575

QC Batch: MSV/5345 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9232575001, 9232575002, 9232575003, 9232575004

METHOD BLANK: 202751 Matrix: Water
Associated Lab Samples: 9232575001, 9232575002, 9232575003, 9232575004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	11/23/08 08:20	
Ethylbenzene	ug/L	ND	5.0	11/23/08 08:20	
m&p-Xylene	ug/L	ND	10.0	11/23/08 08:20	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/23/08 08:20	
Naphthalene	ug/L	ND	5.0	11/23/08 08:20	
o-Xylene	ug/L	ND	5.0	11/23/08 08:20	
Toluene	ug/L	ND	5.0	11/23/08 08:20	
Xylene (Total)	ug/L	ND	10.0	11/23/08 08:20	
1,2-Dichloroethane-d4 (S)	%	95	79-120	11/23/08 08:20	
4-Bromofluorobenzene (S)	%	103	87-109	11/23/08 08:20	
Dibromofluoromethane (S)	%	96	85-115	11/23/08 08:20	
Toluene-d8 (S)	%	99	70-120	11/23/08 08:20	

LABORATORY CONTROL SAMPLE: 202752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.7	99	78-128	
Ethylbenzene	ug/L	50	44.2	88	80-127	
m&p-Xylene	ug/L	100	88.2	88	82-127	
Methyl-tert-butyl ether	ug/L	50	44.8	90	71-130	
Naphthalene	ug/L	50	51.3	103	52-136	
o-Xylene	ug/L	50	44.4	89	83-124	
Toluene	ug/L	50	48.9	98	76-126	
Xylene (Total)	ug/L	150	133	88	83-125	
1,2-Dichloroethane-d4 (S)	%			92	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			95	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 202753 202754

Parameter	Units	9232830005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	40.9	56.0	82	112	74-136	31	30	R1
Toluene	ug/L	3.4J	50	50	42.7	58.5	79	110	73-131	31	30	R1
1,2-Dichloroethane-d4 (S)	%						97	98	79-120			
4-Bromofluorobenzene (S)	%						101	103	87-109			
Dibromofluoromethane (S)	%						95	96	85-115			
Toluene-d8 (S)	%						99	100	70-120			

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QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9232575

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.

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ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1156340

Section A — **Required** Client Information:

Company:	KLM Env.
Address:	PoBox2704 Goose Creek SC 29445
Email To:	mkeller131@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	824-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	SB-1	WT	G	11/17/08			1300		2									BTEXMN		9233575 001
2	SB-2						1400		2									X		
3	SB-3						1500		2											
4	SB-4						1600		3											
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		11/18/08	1700		11/19/08	9:30	3.7 4 N 4

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*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 da

F-ALL-Q-020 rev.07 15-May-2007

Pace Analytical

Sample Condition Upon Receipt

Client Name: Kleinfelder Project # 9232575

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.7 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 11/19

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15. Soil in vials
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N / N/A

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 11/19/08

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

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December 19, 2008

Mr. Mark Keller
KLM Environmental
PO Box 2704
Goose Creek, SC 29445

RE: Project: SHORT STOP
Pace Project No.: 9233818

Dear Mr. Keller:
Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2008. 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,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SHORT STOP
Pace Project No.: 9233818

Charlotte Certification IDs
Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs
Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: SHORT STOP
Pace Project No.: 9233818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9233818001	MW-1	Water	12/08/08 13:30	12/09/08 09:45
9233818002	MW-2R	Water	12/08/08 13:10	12/09/08 09:45
9233818003	MW-3R	Water	12/08/08 13:20	12/09/08 09:45
9233818004	MW-4R	Water	12/08/08 12:50	12/09/08 09:45
9233818005	MW-5	Water	12/08/08 13:00	12/09/08 09:45
9233818006	MW-6	Water	12/08/08 12:40	12/09/08 09:45
9233818007	MW-7	Water	12/08/08 12:30	12/09/08 09:45
9233818008	MW-8	Water	12/08/08 12:00	12/09/08 09:45
9233818009	MW-9	Water	12/08/08 11:50	12/09/08 09:45
9233818010	MW-10	Water	12/08/08 11:40	12/09/08 09:45
9233818011	MW-11	Water	12/08/08 11:30	12/09/08 09:45
9233818012	MW-12	Water	12/08/08 10:00	12/09/08 09:45
9233818013	MW-13	Water	12/08/08 10:10	12/09/08 09:45
9233818014	MW-14	Water	12/08/08 10:20	12/09/08 09:45
9233818015	MW-15	Water	12/08/08 10:50	12/09/08 09:45
9233818016	MW-16	Water	12/08/08 10:30	12/09/08 09:45
9233818017	MW-17	Water	12/08/08 10:40	12/09/08 09:45
9233818018	DW-1	Water	12/08/08 12:20	12/09/08 09:45
9233818019	MW-18	Water	12/08/08 11:20	12/09/08 09:45
9233818020	MW-19	Water	12/08/08 13:40	12/09/08 09:45
9233818021	DW-2	Water	12/08/08 11:10	12/09/08 09:45

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9233818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9233818001	MW-1	EPA 8260	MCK	12
9233818002	MW-2R	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818003	MW-3R	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818004	MW-4R	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818005	MW-5	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818006	MW-6	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818007	MW-7	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818008	MW-8	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818009	MW-9	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818010	MW-10	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818011	MW-11	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818012	MW-12	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818013	MW-13	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818014	MW-14	EPA 6010	JDA	1
		EPA 8260	MCK	12
9233818015	MW-15	EPA 6010	JMW	1
		EPA 8260	MCK	12
9233818016	MW-16	EPA 6010	JMW	1
		EPA 8260	MCK	12
9233818017	MW-17	EPA 6010	JMW	1
		EPA 8260	MCK	12
9233818018	DW-1	EPA 6010	JMW	1
		EPA 8260	MCK	12
9233818019	MW-18	EPA 353.2	DMN	1
		EPA 6010	JMW	1

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SAMPLE ANALYTE COUNT

Project: SHORT STOP
Pace Project No.: 9233818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	SHB	1
9233818020	**MW-19**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	SHB	1
9233818021	**DW-2**	EPA 353.2	DMN	1
		EPA 6010	JMW	1
		EPA 8011	CAH	2
		EPA 8260	MCK	21
		SM 3500-Fe D#4	SHB	1

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-1 **Lab ID: 9233818001** Collected: 12/08/08 13:30 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**12600**	ug/L	2500	600	500		12/18/08 12:47	71-43-2	
Ethylbenzene	**6180**	ug/L	2500	550	500		12/18/08 12:47	100-41-4	
Methyl-tert-butyl ether	**11700**	ug/L	2500	1000	500		12/18/08 12:47	1634-04-4	
Naphthalene	**943**	ug/L	50.0	29.0	10		12/17/08 17:05	91-20-3	
Toluene	**39400**	ug/L	2500	900	500		12/18/08 12:47	108-88-3	
Xylene (Total)	**36000**	ug/L	5000	1350	500		12/18/08 12:47	1330-20-7	
m&p-Xylene	**25200**	ug/L	5000	1350	500		12/18/08 12:47	1330-20-7	
o-Xylene	**10800**	ug/L	2500	850	500		12/18/08 12:47	95-47-6	
4-Bromofluorobenzene (S)	111	%	87-109		10		12/17/08 17:05	460-00-4	S2
Dibromofluoromethane (S)	96	%	85-115		10		12/17/08 17:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	%	79-120		10		12/17/08 17:05	17060-07-0	
Toluene-d8 (S)	98	%	70-120		10		12/17/08 17:05	2037-26-5	

Sample: MW-2R **Lab ID: 9233818002** Collected: 12/08/08 13:10 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:15	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**505**	ug/L	25.0	6.0	5		12/12/08 11:23	71-43-2	
Ethylbenzene	**14.6**	ug/L	5.0	1.1	1		12/11/08 18:21	100-41-4	
Methyl-tert-butyl ether	**10.9**	ug/L	5.0	2.0	1		12/11/08 18:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 18:21	91-20-3	
Toluene	**47.0**	ug/L	5.0	1.8	1		12/11/08 18:21	108-88-3	
Xylene (Total)	**240**	ug/L	10.0	2.7	1		12/11/08 18:21	1330-20-7	
m&p-Xylene	**212**	ug/L	10.0	2.7	1		12/11/08 18:21	1330-20-7	
o-Xylene	**27.3**	ug/L	5.0	1.7	1		12/11/08 18:21	95-47-6	
4-Bromofluorobenzene (S)	105	%	87-109		1		12/11/08 18:21	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		12/11/08 18:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/11/08 18:21	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		12/11/08 18:21	2037-26-5	

Sample: MW-3R **Lab ID: 9233818003** Collected: 12/08/08 13:20 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:27	7439-92-1	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-3R **Lab ID: 9233818003** Collected: 12/08/08 13:20 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**2530**	ug/L	100	24.0	20		12/12/08 06:33	71-43-2	
Ethylbenzene	**952**	ug/L	100	22.0	20		12/12/08 06:33	100-41-4	
Methyl-tert-butyl ether	**11400**	ug/L	1000	400	200		12/12/08 14:28	1634-04-4	
Naphthalene	**109**	ug/L	100	58.0	20		12/12/08 06:33	91-20-3	
Toluene	**8820**	ug/L	1000	360	200		12/12/08 14:28	108-88-3	
Xylene (Total)	**5350**	ug/L	200	54.0	20		12/12/08 06:33	1330-20-7	
m&p-Xylene	**3800**	ug/L	200	54.0	20		12/12/08 06:33	1330-20-7	
o-Xylene	**1550**	ug/L	100	34.0	20		12/12/08 06:33	95-47-6	
4-Bromofluorobenzene (S)	107	%	87-109		20		12/12/08 06:33	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		20		12/12/08 06:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	79-120		20		12/12/08 06:33	17060-07-0	
Toluene-d8 (S)	104	%	70-120		20		12/12/08 06:33	2037-26-5	

Sample: MW-4R **Lab ID: 9233818004** Collected: 12/08/08 12:50 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.8**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:31	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**20.6**	ug/L	5.0	1.2	1		12/11/08 18:37	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/11/08 18:37	100-41-4	
Methyl-tert-butyl ether	**17.7**	ug/L	5.0	2.0	1		12/11/08 18:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 18:37	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/11/08 18:37	108-88-3	
Xylene (Total)	**17.0**	ug/L	10.0	2.7	1		12/11/08 18:37	1330-20-7	
m&p-Xylene	**14.0**	ug/L	10.0	2.7	1		12/11/08 18:37	1330-20-7	
o-Xylene	**3.0J**	ug/L	5.0	1.7	1		12/11/08 18:37	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		12/11/08 18:37	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		12/11/08 18:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		12/11/08 18:37	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/11/08 18:37	2037-26-5	

Sample: MW-5 **Lab ID: 9233818005** Collected: 12/08/08 13:00 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**17.3**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:35	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-5 **Lab ID: 9233818005** Collected: 12/08/08 13:00 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**909**	ug/L	100	24.0	20		12/12/08 12:24	71-43-2	
Ethylbenzene	**221**	ug/L	25.0	5.5	5		12/12/08 07:11	100-41-4	
Methyl-tert-butyl ether	**75.3**	ug/L	25.0	10.0	5		12/12/08 07:11	1634-04-4	
Naphthalene	**18.3J**	ug/L	25.0	14.5	5		12/12/08 07:11	91-20-3	
Toluene	**402**	ug/L	25.0	9.0	5		12/12/08 07:11	108-88-3	
Xylene (Total)	**832**	ug/L	50.0	13.5	5		12/12/08 07:11	1330-20-7	
m&p-Xylene	**713**	ug/L	50.0	13.5	5		12/12/08 07:11	1330-20-7	
o-Xylene	**120**	ug/L	25.0	8.5	5		12/12/08 07:11	95-47-6	
4-Bromofluorobenzene (S)	106	%	87-109		5		12/12/08 07:11	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		5		12/12/08 07:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	88	%	79-120		5		12/12/08 07:11	17060-07-0	
Toluene-d8 (S)	102	%	70-120		5		12/12/08 07:11	2037-26-5	

Sample: MW-6 **Lab ID: 9233818006** Collected: 12/08/08 12:40 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**44.6**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:39	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/11/08 18:54	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/11/08 18:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/11/08 18:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 18:54	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/11/08 18:54	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/11/08 18:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/11/08 18:54	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/11/08 18:54	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		12/11/08 18:54	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		12/11/08 18:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		12/11/08 18:54	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		12/11/08 18:54	2037-26-5	

Sample: MW-7 **Lab ID: 9233818007** Collected: 12/08/08 12:30 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**12.0**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:44	7439-92-1	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-7 **Lab ID: 9233818007** Collected: 12/08/08 12:30 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**493**	ug/L	25.0	6.0	5		12/12/08 07:30	71-43-2	
Ethylbenzene	**6.2J**	ug/L	25.0	5.5	5		12/12/08 07:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	25.0	10.0	5		12/12/08 07:30	1634-04-4	
Naphthalene	ND	ug/L	25.0	14.5	5		12/12/08 07:30	91-20-3	
Toluene	ND	ug/L	25.0	9.0	5		12/12/08 07:30	108-88-3	
Xylene (Total)	**474**	ug/L	50.0	13.5	5		12/12/08 07:30	1330-20-7	
m&p-Xylene	**436**	ug/L	50.0	13.5	5		12/12/08 07:30	1330-20-7	
o-Xylene	**38.4**	ug/L	25.0	8.5	5		12/12/08 07:30	95-47-6	
4-Bromofluorobenzene (S)	108	%	87-109		5		12/12/08 07:30	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		5		12/12/08 07:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	79-120		5		12/12/08 07:30	17060-07-0	
Toluene-d8 (S)	101	%	70-120		5		12/12/08 07:30	2037-26-5	

Sample: MW-8 **Lab ID: 9233818008** Collected: 12/08/08 12:00 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:48	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1830**	ug/L	100	24.0	20		12/12/08 06:52	71-43-2	
Ethylbenzene	**26.9J**	ug/L	100	22.0	20		12/12/08 06:52	100-41-4	
Methyl-tert-butyl ether	**884**	ug/L	100	40.0	20		12/12/08 06:52	1634-04-4	
Naphthalene	ND	ug/L	100	58.0	20		12/12/08 06:52	91-20-3	
Toluene	**54.2J**	ug/L	100	36.0	20		12/12/08 06:52	108-88-3	
Xylene (Total)	**674**	ug/L	200	54.0	20		12/12/08 06:52	1330-20-7	
m&p-Xylene	**527**	ug/L	200	54.0	20		12/12/08 06:52	1330-20-7	
o-Xylene	**147**	ug/L	100	34.0	20		12/12/08 06:52	95-47-6	
4-Bromofluorobenzene (S)	106	%	87-109		20		12/12/08 06:52	460-00-4	
Dibromofluoromethane (S)	93	%	85-115		20		12/12/08 06:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	79-120		20		12/12/08 06:52	17060-07-0	
Toluene-d8 (S)	101	%	70-120		20		12/12/08 06:52	2037-26-5	

Sample: MW-9 **Lab ID: 9233818009** Collected: 12/08/08 11:50 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**229**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:51	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-9 **Lab ID: 9233818009** Collected: 12/08/08 11:50 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 01:57	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 01:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 01:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 01:57	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 01:57	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 01:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 01:57	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 01:57	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		12/12/08 01:57	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		12/12/08 01:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/12/08 01:57	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/12/08 01:57	2037-26-5	

Sample: MW-10 **Lab ID: 9233818010** Collected: 12/08/08 11:40 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 18:58	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/11/08 19:10	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/11/08 19:10	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/11/08 19:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 19:10	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/11/08 19:10	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/11/08 19:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/11/08 19:10	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/11/08 19:10	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		12/11/08 19:10	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		12/11/08 19:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	79-120		1		12/11/08 19:10	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		12/11/08 19:10	2037-26-5	

Sample: MW-11 **Lab ID: 9233818011** Collected: 12/08/08 11:30 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.2**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 19:02	7439-92-1	

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

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-11 **Lab ID: 9233818011** Collected: 12/08/08 11:30 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**3.6J**	ug/L	5.0	1.2	1		12/11/08 19:27	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/11/08 19:27	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/11/08 19:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 19:27	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/11/08 19:27	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/11/08 19:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/11/08 19:27	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/11/08 19:27	95-47-6	
4-Bromofluorobenzene (S)	103	%	87-109		1		12/11/08 19:27	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		12/11/08 19:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		12/11/08 19:27	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		12/11/08 19:27	2037-26-5	

Sample: MW-12 **Lab ID: 9233818012** Collected: 12/08/08 10:00 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 19:06	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/11/08 19:43	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/11/08 19:43	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/11/08 19:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 19:43	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/11/08 19:43	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/11/08 19:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/11/08 19:43	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/11/08 19:43	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		12/11/08 19:43	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		12/11/08 19:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	79-120		1		12/11/08 19:43	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/11/08 19:43	2037-26-5	

Sample: MW-13 **Lab ID: 9233818013** Collected: 12/08/08 10:10 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 19:18	7439-92-1	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-13 **Lab ID: 9233818013** Collected: 12/08/08 10:10 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/11/08 20:00	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/11/08 20:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/11/08 20:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/11/08 20:00	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/11/08 20:00	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/11/08 20:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/11/08 20:00	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/11/08 20:00	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		12/11/08 20:00	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		12/11/08 20:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	79-120		1		12/11/08 20:00	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		12/11/08 20:00	2037-26-5	

Sample: MW-14 **Lab ID: 9233818014** Collected: 12/08/08 10:20 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**38.8**	ug/L	5.0	4.0	1	12/11/08 14:15	12/13/08 19:22	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**82.1**	ug/L	5.0	1.2	1		12/12/08 15:48	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 15:48	100-41-4	
Methyl-tert-butyl ether	**64.3**	ug/L	5.0	2.0	1		12/12/08 15:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 15:48	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 15:48	108-88-3	
Xylene (Total)	**9.3J**	ug/L	10.0	2.7	1		12/12/08 15:48	1330-20-7	
m&p-Xylene	**6.6J**	ug/L	10.0	2.7	1		12/12/08 15:48	1330-20-7	
o-Xylene	**2.7J**	ug/L	5.0	1.7	1		12/12/08 15:48	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/12/08 15:48	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/12/08 15:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		12/12/08 15:48	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/12/08 15:48	2037-26-5	

Sample: MW-15 **Lab ID: 9233818015** Collected: 12/08/08 10:50 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**70.1**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 20:59	7439-92-1	M0

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-15 **Lab ID: 9233818015** Collected: 12/08/08 10:50 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 16:05	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 16:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 16:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 16:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 16:05	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 16:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 16:05	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 16:05	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/12/08 16:05	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		12/12/08 16:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/12/08 16:05	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/12/08 16:05	2037-26-5	

Sample: MW-16 **Lab ID: 9233818016** Collected: 12/08/08 10:30 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**10.3**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 21:09	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 16:22	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 16:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 16:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 16:22	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 16:22	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 16:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 16:22	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 16:22	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		12/12/08 16:22	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		12/12/08 16:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/12/08 16:22	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/12/08 16:22	2037-26-5	

Sample: MW-17 **Lab ID: 9233818017** Collected: 12/08/08 10:40 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**13.5**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 21:19	7439-92-1	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-17 **Lab ID: 9233818017** Collected: 12/08/08 10:40 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 16:40	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 16:40	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 16:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 16:40	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 16:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 16:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 16:40	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 16:40	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		12/12/08 16:40	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		12/12/08 16:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		12/12/08 16:40	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/12/08 16:40	2037-26-5	

Sample: DW-1 **Lab ID: 9233818018** Collected: 12/08/08 12:20 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.7J**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 21:23	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**16.5**	ug/L	5.0	1.2	1		12/12/08 16:57	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 16:57	100-41-4	
Methyl-tert-butyl ether	**14.9**	ug/L	5.0	2.0	1		12/12/08 16:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 16:57	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 16:57	108-88-3	
Xylene (Total)	**6.0J**	ug/L	10.0	2.7	1		12/12/08 16:57	1330-20-7	
m&p-Xylene	**4.9J**	ug/L	10.0	2.7	1		12/12/08 16:57	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 16:57	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		12/12/08 16:57	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		12/12/08 16:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		12/12/08 16:57	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/12/08 16:57	2037-26-5	

Sample: MW-18 **Lab ID: 9233818019** Collected: 12/08/08 11:20 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/13/08 17:30	12/15/08 01:41	106-93-4	
1-Chloro-2-bromopropane (S)	87	%	60-140		1	12/13/08 17:30	12/15/08 01:41	301-79-56	

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(704)875-9092

ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-18 **Lab ID: 9233818019** Collected: 12/08/08 11:20 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**37.6**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 21:38	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/12/08 23:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/12/08 23:16	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 23:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/12/08 23:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/12/08 23:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/12/08 23:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/12/08 23:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/12/08 23:16	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/12/08 23:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 23:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/12/08 23:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 23:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 23:16	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 23:16	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 23:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 23:16	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 23:16	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		1		12/12/08 23:16	1868-53-7	
Toluene-d8 (S)	99	%	70-120		1		12/12/08 23:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-109		1		12/12/08 23:16	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/12/08 23:16	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/16/08 11:30		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.9**	mg/L	0.10	0.10	1		12/09/08 23:07		

Sample: MW-19 **Lab ID: 9233818020** Collected: 12/08/08 13:40 Received: 12/09/08 09:45 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	12/13/08 17:31	12/15/08 01:55	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	12/13/08 17:31	12/15/08 01:55	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.5**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 21:43	7439-92-1	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: MW-19 **Lab ID: 9233818020** Collected: 12/08/08 13:40 Received: 12/09/08 09:45 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		12/12/08 23:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/12/08 23:33	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 23:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/12/08 23:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/12/08 23:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/12/08 23:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/12/08 23:33	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/12/08 23:33	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/12/08 23:33	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 23:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/12/08 23:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 23:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 23:33	91-20-3	
Toluene	**2.2J**	ug/L	5.0	1.8	1		12/12/08 23:33	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 23:33	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 23:33	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 23:33	95-47-6	
Dibromofluoromethane (S)	98	%	85-115		1		12/12/08 23:33	1868-53-7	
Toluene-d8 (S)	100	%	70-120		1		12/12/08 23:33	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		12/12/08 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/12/08 23:33	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/16/08 11:32		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.53**	mg/L	0.10	0.10	1		12/09/08 23:07		

Sample: DW-2 **Lab ID: 9233818021** Collected: 12/08/08 11:10 Received: 12/09/08 09:45 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	12/13/08 17:31	12/15/08 02:08	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	12/13/08 17:31	12/15/08 02:08	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.4**	ug/L	5.0	4.0	1	12/11/08 14:15	12/12/08 21:46	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/12/08 23:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/12/08 23:50	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/12/08 23:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/12/08 23:50	624-95-3	

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ANALYTICAL RESULTS

Project: SHORT STOP
Pace Project No.: 9233818

Sample: DW-2 **Lab ID: 9233818021** Collected: 12/08/08 11:10 Received: 12/09/08 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/12/08 23:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/12/08 23:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/12/08 23:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/12/08 23:50	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/12/08 23:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/12/08 23:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/12/08 23:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/12/08 23:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/12/08 23:50	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/12/08 23:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/12/08 23:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/12/08 23:50	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/12/08 23:50	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		12/12/08 23:50	1868-53-7	
Toluene-d8 (S)	99	%	70-120		1		12/12/08 23:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/12/08 23:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/12/08 23:50	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/16/08 11:28		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.87**	mg/L	0.10	0.10	1		12/09/08 23:07		

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: WETA/4045 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9233818019, 9233818020, 9233818021

METHOD BLANK: 209643 Matrix: Water
Associated Lab Samples: 9233818019, 9233818020, 9233818021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/09/08 23:07	

LABORATORY CONTROL SAMPLE: 209644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.1	103	90-110	

MATRIX SPIKE SAMPLE: 209645

Parameter	Units	9233919009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	3860 ug/L	5	8.4	90	90-110	

MATRIX SPIKE SAMPLE: 209646

Parameter	Units	9233919005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	961 ug/L	5	5.4	90	90-110	

SAMPLE DUPLICATE: 209647

Parameter	Units	9233924002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 209648

Parameter	Units	9233919001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	338 ug/L	0.34	.6	20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5564
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 9233818009

METHOD BLANK: 209902 Matrix: Water
Associated Lab Samples: 9233818009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/11/08 20:30	
Benzene	ug/L	ND	5.0	12/11/08 20:30	
Ethylbenzene	ug/L	ND	5.0	12/11/08 20:30	
m&p-Xylene	ug/L	ND	10.0	12/11/08 20:30	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/11/08 20:30	
Naphthalene	ug/L	ND	5.0	12/11/08 20:30	
o-Xylene	ug/L	ND	5.0	12/11/08 20:30	
Toluene	ug/L	ND	5.0	12/11/08 20:30	
Xylene (Total)	ug/L	ND	10.0	12/11/08 20:30	
1,2-Dichloroethane-d4 (S)	%	100	79-120	12/11/08 20:30	
4-Bromofluorobenzene (S)	%	100	87-109	12/11/08 20:30	
Dibromofluoromethane (S)	%	101	85-115	12/11/08 20:30	
Toluene-d8 (S)	%	100	70-120	12/11/08 20:30	

LABORATORY CONTROL SAMPLE: 209903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	58.4	117	72-126	
Benzene	ug/L	50	53.5	107	78-128	
Ethylbenzene	ug/L	50	52.7	105	80-127	
m&p-Xylene	ug/L	100	106	106	82-127	
Methyl-tert-butyl ether	ug/L	50	55.6	111	71-130	
Naphthalene	ug/L	50	65.9	132	52-136	
o-Xylene	ug/L	50	52.0	104	83-124	
Toluene	ug/L	50	52.7	105	76-126	
Xylene (Total)	ug/L	150	158	105	83-125	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			104	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210451 210452

Parameter	Units	9233818009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	58.1	56.4	116	113	74-136	3	30	
Toluene	ug/L	ND	50	50	57.9	57.2	115	113	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						100	103	79-120			
4-Bromofluorobenzene (S)	%						101	99	87-109			
Dibromofluoromethane (S)	%						102	104	85-115			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210451 210452

Parameter	Units	9233818009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						100	99	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: WET/6552 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous
Associated Lab Samples: 9233818019, 9233818020, 9233818021

METHOD BLANK: 210243 Matrix: Water
Associated Lab Samples: 9233818019, 9233818020, 9233818021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	12/16/08 13:57	

LABORATORY CONTROL SAMPLE: 210244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	99	90-110	

SAMPLE DUPLICATE: 210245

Parameter	Units	9233658006 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MPRP/3518 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9233818002, 9233818003, 9233818004, 9233818005, 9233818006, 9233818007, 9233818008, 9233818009, 9233818010, 9233818011, 9233818012, 9233818013, 9233818014

METHOD BLANK: 210571 Matrix: Water
Associated Lab Samples: 9233818002, 9233818003, 9233818004, 9233818005, 9233818006, 9233818007, 9233818008, 9233818009, 9233818010, 9233818011, 9233818012, 9233818013, 9233818014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/13/08 17:26	

LABORATORY CONTROL SAMPLE: 210572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE SAMPLE: 210573

Parameter	Units	9233729012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	498	100	75-125	

SAMPLE DUPLICATE: 210574

Parameter	Units	9233766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	23.8	24.2	2	20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MPRP/3519 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9233818015, 9233818016, 9233818017, 9233818018, 9233818019, 9233818020, 9233818021

METHOD BLANK: 210575 Matrix: Water
Associated Lab Samples: 9233818015, 9233818016, 9233818017, 9233818018, 9233818019, 9233818020, 9233818021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/12/08 20:52	

LABORATORY CONTROL SAMPLE: 210576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE SAMPLE: 210577

Parameter	Units	9233818015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	70.1	500	429	72	75-125	M0

SAMPLE DUPLICATE: 210578

Parameter	Units	9233818016 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	10.3	9.3	11	20	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5581 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9233818002, 9233818004, 9233818006, 9233818010, 9233818011, 9233818012

METHOD BLANK: 210579 Matrix: Water
Associated Lab Samples: 9233818002, 9233818004, 9233818006, 9233818010, 9233818011, 9233818012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/11/08 12:59	
Benzene	ug/L	ND	5.0	12/11/08 12:59	
Ethylbenzene	ug/L	ND	5.0	12/11/08 12:59	
m&p-Xylene	ug/L	ND	10.0	12/11/08 12:59	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/11/08 12:59	
Naphthalene	ug/L	ND	5.0	12/11/08 12:59	
o-Xylene	ug/L	ND	5.0	12/11/08 12:59	
Toluene	ug/L	ND	5.0	12/11/08 12:59	
Xylene (Total)	ug/L	ND	10.0	12/11/08 12:59	
1,2-Dichloroethane-d4 (S)	%	103	79-120	12/11/08 12:59	
4-Bromofluorobenzene (S)	%	100	87-109	12/11/08 12:59	
Dibromofluoromethane (S)	%	102	85-115	12/11/08 12:59	
Toluene-d8 (S)	%	100	70-120	12/11/08 12:59	

LABORATORY CONTROL SAMPLE: 210580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	54.2	108	72-126	
Benzene	ug/L	50	51.8	104	78-128	
Ethylbenzene	ug/L	50	52.9	106	80-127	
m&p-Xylene	ug/L	100	106	106	82-127	
Methyl-tert-butyl ether	ug/L	50	53.3	107	71-130	
Naphthalene	ug/L	50	61.6	123	52-136	
o-Xylene	ug/L	50	53.5	107	83-124	
Toluene	ug/L	50	50.9	102	76-126	
Xylene (Total)	ug/L	150	160	106	83-125	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			105	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210581 210582

Parameter	Units	9233818012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	42.1	44.6	84	89	74-136	6	30	
Toluene	ug/L	ND	50	50	41.3	43.5	82	86	73-131	5	30	
1,2-Dichloroethane-d4 (S)	%						97	95	79-120			
4-Bromofluorobenzene (S)	%						97	102	87-109			
Dibromofluoromethane (S)	%						100	98	85-115			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210581 210582

Parameter	Units	9233818012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						101	100	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5582 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9233818013

METHOD BLANK: 210583 Matrix: Water
Associated Lab Samples: 9233818013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	12/11/08 12:59	
Ethylbenzene	ug/L	ND	5.0	12/11/08 12:59	
m&p-Xylene	ug/L	ND	10.0	12/11/08 12:59	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/11/08 12:59	
Naphthalene	ug/L	ND	5.0	12/11/08 12:59	
o-Xylene	ug/L	ND	5.0	12/11/08 12:59	
Toluene	ug/L	ND	5.0	12/11/08 12:59	
Xylene (Total)	ug/L	ND	10.0	12/11/08 12:59	
1,2-Dichloroethane-d4 (S)	%	103	79-120	12/11/08 12:59	
4-Bromofluorobenzene (S)	%	100	87-109	12/11/08 12:59	
Dibromofluoromethane (S)	%	102	85-115	12/11/08 12:59	
Toluene-d8 (S)	%	100	70-120	12/11/08 12:59	

LABORATORY CONTROL SAMPLE: 210584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.8	104	78-128	
Ethylbenzene	ug/L	50	52.9	106	80-127	
m&p-Xylene	ug/L	100	106	106	82-127	
Methyl-tert-butyl ether	ug/L	50	53.3	107	71-130	
Naphthalene	ug/L	50	61.6	123	52-136	
o-Xylene	ug/L	50	53.5	107	83-124	
Toluene	ug/L	50	50.9	102	76-126	
Xylene (Total)	ug/L	150	160	106	83-125	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			105	85-115	
Toluene-d8 (S)	%			99	70-120	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5585 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9233818003, 9233818005, 9233818007, 9233818008

METHOD BLANK: 210680 Matrix: Water
Associated Lab Samples: 9233818003, 9233818005, 9233818007, 9233818008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	12/11/08 23:00	
Ethylbenzene	ug/L	ND	5.0	12/11/08 23:00	
m&p-Xylene	ug/L	ND	10.0	12/11/08 23:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/11/08 23:00	
Naphthalene	ug/L	ND	5.0	12/11/08 23:00	
o-Xylene	ug/L	ND	5.0	12/11/08 23:00	
Toluene	ug/L	ND	5.0	12/11/08 23:00	
Xylene (Total)	ug/L	ND	10.0	12/11/08 23:00	
1,2-Dichloroethane-d4 (S)	%	98	79-120	12/11/08 23:00	
4-Bromofluorobenzene (S)	%	102	87-109	12/11/08 23:00	
Dibromofluoromethane (S)	%	101	85-115	12/11/08 23:00	
Toluene-d8 (S)	%	101	70-120	12/11/08 23:00	

LABORATORY CONTROL SAMPLE: 210681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	52.9	106	78-128	
Ethylbenzene	ug/L	50	53.2	106	80-127	
m&p-Xylene	ug/L	100	106	106	82-127	
Methyl-tert-butyl ether	ug/L	50	53.5	107	71-130	
Naphthalene	ug/L	50	64.7	129	52-136	
o-Xylene	ug/L	50	54.2	108	83-124	
Toluene	ug/L	50	51.8	104	76-126	
Xylene (Total)	ug/L	150	160	107	83-125	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			102	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 210682 210683

Parameter	Units	9233930021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	52.9	55.7	106	111	74-136	5	30	
Toluene	ug/L	ND	50	50	51.6	55.5	103	111	73-131	7	30	
1,2-Dichloroethane-d4 (S)	%						93	95	79-120			
4-Bromofluorobenzene (S)	%						101	102	87-109			
Dibromofluoromethane (S)	%						97	99	85-115			
Toluene-d8 (S)	%						99	100	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5593 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9233818014, 9233818015, 9233818016, 9233818017, 9233818018

METHOD BLANK: 211218 Matrix: Water
Associated Lab Samples: 9233818014, 9233818015, 9233818016, 9233818017, 9233818018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	12/12/08 09:48	
Ethylbenzene	ug/L	ND	5.0	12/12/08 09:48	
m&p-Xylene	ug/L	ND	10.0	12/12/08 09:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/12/08 09:48	
Naphthalene	ug/L	ND	5.0	12/12/08 09:48	
o-Xylene	ug/L	ND	5.0	12/12/08 09:48	
Toluene	ug/L	ND	5.0	12/12/08 09:48	
Xylene (Total)	ug/L	ND	10.0	12/12/08 09:48	
1,2-Dichloroethane-d4 (S)	%	99	79-120	12/12/08 09:48	
4-Bromofluorobenzene (S)	%	99	87-109	12/12/08 09:48	
Dibromofluoromethane (S)	%	100	85-115	12/12/08 09:48	
Toluene-d8 (S)	%	100	70-120	12/12/08 09:48	

LABORATORY CONTROL SAMPLE: 211219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	52.7	105	78-128	
Ethylbenzene	ug/L	50	52.6	105	80-127	
m&p-Xylene	ug/L	100	104	104	82-127	
Methyl-tert-butyl ether	ug/L	50	52.3	105	71-130	
Naphthalene	ug/L	50	60.9	122	52-136	
o-Xylene	ug/L	50	51.9	104	83-124	
Toluene	ug/L	50	52.7	105	76-126	
Xylene (Total)	ug/L	150	156	104	83-125	
1,2-Dichloroethane-d4 (S)	%			101	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 211220 211221

Parameter	Units	9233724031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	33.0	50	50	73.2	83.6	81	101	74-136	13	30	
Toluene	ug/L	17.8	50	50	56.8	67.4	78	99	73-131	17	30	
1,2-Dichloroethane-d4 (S)	%						98	99	79-120			
4-Bromofluorobenzene (S)	%						103	103	87-109			
Dibromofluoromethane (S)	%						97	99	85-115			
Toluene-d8 (S)	%						99	99	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5595 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9233818019, 9233818020, 9233818021

METHOD BLANK: 211317 Matrix: Water
Associated Lab Samples: 9233818019, 9233818020, 9233818021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/12/08 21:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/12/08 21:50	
Benzene	ug/L	ND	5.0	12/12/08 21:50	
Diisopropyl ether	ug/L	ND	5.0	12/12/08 21:50	
Ethanol	ug/L	ND	200	12/12/08 21:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/12/08 21:50	
Ethylbenzene	ug/L	ND	5.0	12/12/08 21:50	
m&p-Xylene	ug/L	ND	10.0	12/12/08 21:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/12/08 21:50	
Naphthalene	ug/L	ND	5.0	12/12/08 21:50	
o-Xylene	ug/L	ND	5.0	12/12/08 21:50	
tert-Amyl Alcohol	ug/L	ND	100	12/12/08 21:50	
tert-Amylmethyl ether	ug/L	ND	10.0	12/12/08 21:50	
tert-Butyl Alcohol	ug/L	ND	100	12/12/08 21:50	
tert-Butyl Formate	ug/L	ND	50.0	12/12/08 21:50	
Toluene	ug/L	ND	5.0	12/12/08 21:50	
Xylene (Total)	ug/L	ND	10.0	12/12/08 21:50	
1,2-Dichloroethane-d4 (S)	%	97	79-120	12/12/08 21:50	
4-Bromofluorobenzene (S)	%	102	87-109	12/12/08 21:50	
Dibromofluoromethane (S)	%	98	85-115	12/12/08 21:50	
Toluene-d8 (S)	%	99	70-120	12/12/08 21:50	

LABORATORY CONTROL SAMPLE: 211318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.4	101	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	979	98	55-148	
Benzene	ug/L	50	50.2	100	78-128	
Diisopropyl ether	ug/L	50	50.2	100	74-131	
Ethanol	ug/L	2000	2200	110	53-150	
Ethyl-tert-butyl ether	ug/L	100	98.2	98	77-136	
Ethylbenzene	ug/L	50	49.5	99	80-127	
m&p-Xylene	ug/L	100	100	100	82-127	
Methyl-tert-butyl ether	ug/L	50	51.6	103	71-130	
Naphthalene	ug/L	50	56.8	114	52-136	
o-Xylene	ug/L	50	49.6	99	83-124	
tert-Amyl Alcohol	ug/L	1000	928	93	50-150	
tert-Amylmethyl ether	ug/L	100	103	103	50-150	
tert-Butyl Alcohol	ug/L	500	484	97	50-150	
tert-Butyl Formate	ug/L	200	188	94	50-150	
Toluene	ug/L	50	50.9	102	76-126	

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

LABORATORY CONTROL SAMPLE: 211318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	150	100	83-125	
1,2-Dichloroethane-d4 (S)	%			96	79-120	
4-Bromofluorobenzene (S)	%			102	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 211319 211320

Parameter	Units	9233914004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	35.8	53.1	72	106	74-136	39	30	M0,R1
Toluene	ug/L	ND	50	50	35.5	52.7	71	105	73-131	39	30	M0,R1
1,2-Dichloroethane-d4 (S)	%						99	95	79-120			
4-Bromofluorobenzene (S)	%						102	100	87-109			
Dibromofluoromethane (S)	%						97	97	85-115			
Toluene-d8 (S)	%						99	99	70-120			

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QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: OEXT/5315 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9233818019, 9233818020, 9233818021

METHOD BLANK: 211982 Matrix: Water
Associated Lab Samples: 9233818019, 9233818020, 9233818021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/14/08 23:10	
1-Chloro-2-bromopropane (S)	%	103	60-140	12/14/08 23:10	

LABORATORY CONTROL SAMPLE & LCSD: 211983 211984

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	0.30	0.28	108	102	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				102	95	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 211985 211986

Parameter	Units	9234016015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.28	0.30	102	108	60-140	6	20	
1-Chloro-2-bromopropane (S)	%						87	96	60-140			

SAMPLE DUPLICATE: 211987

Parameter	Units	9233817001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.12	0.13	5	20	
1-Chloro-2-bromopropane (S)	%		95	4		

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ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: SHORT STOP
Pace Project No.: 9233818

QC Batch: MSV/5632
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 9233818001

METHOD BLANK: 212714
Matrix: Water
Associated Lab Samples: 9233818001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	12/17/08 09:29	
Ethylbenzene	ug/L	ND	5.0	12/17/08 09:29	
m&p-Xylene	ug/L	ND	10.0	12/17/08 09:29	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/17/08 09:29	
Naphthalene	ug/L	ND	5.0	12/17/08 09:29	
o-Xylene	ug/L	ND	5.0	12/17/08 09:29	
Toluene	ug/L	ND	5.0	12/17/08 09:29	
Xylene (Total)	ug/L	ND	10.0	12/17/08 09:29	
1,2-Dichloroethane-d4 (S)	%	94	79-120	12/17/08 09:29	
4-Bromofluorobenzene (S)	%	108	87-109	12/17/08 09:29	
Dibromofluoromethane (S)	%	93	85-115	12/17/08 09:29	
Toluene-d8 (S)	%	99	70-120	12/17/08 09:29	

LABORATORY CONTROL SAMPLE: 212715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.7	99	78-128	
Ethylbenzene	ug/L	50	46.9	94	80-127	
m&p-Xylene	ug/L	100	93.3	93	82-127	
Methyl-tert-butyl ether	ug/L	50	49.3	99	71-130	
Naphthalene	ug/L	50	58.0	116	52-136	
o-Xylene	ug/L	50	46.7	93	83-124	
Toluene	ug/L	50	50.2	100	76-126	
Xylene (Total)	ug/L	150	140	93	83-125	
1,2-Dichloroethane-d4 (S)	%			91	79-120	
4-Bromofluorobenzene (S)	%			110	87-109	L0
Dibromofluoromethane (S)	%			94	85-115	
Toluene-d8 (S)	%			101	70-120	

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ACCREDITED IN ACCORDANCE WITH nelac

QUALIFIERS

Project: SHORT STOP
Pace Project No.: 9233818

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.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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ACCREDITED IN ACCORDANCE WITH nelac

Analytical Environmental Services, Inc.

Date: *16-Dec-08*

CLIENT: Pace Analytical Services, Inc.
Project: 9233818
Lab ID: 0812684-001

Client Sample ID: MW-18
Collection Date: 12/8/2008 11:20:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN			**SW9056**				Analyst: **GAR**
Sulfate	2.2	1.0		mg/L		1	12/11/2008 10:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *16-Dec-08*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-19
Project:	9233818	**Collection Date:**	12/8/2008 1:40:00 PM
Lab ID:	0812684-002	**Matrix:**	AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN			**SW9056**				Analyst: **GAR**
Sulfate	BRL	1.0		mg/L		1	12/11/2008 10:45 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *16-Dec-08*

CLIENT: Pace Analytical Services, Inc.
Project: 9233818
Lab ID: 0812684-003

Client Sample ID: DW-2
Collection Date: 12/8/2008 11:10:00 AM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN			**SW9056**				Analyst: **GAR**
Sulfate	3.2	1.0		mg/L		1	12/11/2008 11:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1136234

Section A Required Client Information:

Company:	KLM Env.
Address:	Po Box 2704 Goose Creek SC 29445
Email To:	mkeller1316@comcast.net
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Mark Keller
Copy To:	
Purchase Order No.:	
Project Name:	Short Stop
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	824-5,3

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	BTEX MM Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G	12/8/08			1330											Y	X		No Lead 001
2	MW-2R						1310												X		002
3	MW-3R						1320														003
4	MW-4R						1250														004
5	MW-5						1300														005
6	MW-6						1240														006
7	MW-7						1230														007
8	MW-8						1200														008
9	MW-9						1150														009
10	MW-10						1140														010
11	MW-11						1130														011
12	MW-12	↓	↓	↓			1060											↓	↓		012

92333818

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		12/8/08	1700		12/8/08	1745	2.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

*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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®
www.pacelabs.com

1177434

Section A Required Client Information:

Company: KLM Env.
Address: PO Box 2704
Goose Creek, SC 29445
Email To: MKeller131@comcast.net
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Keller
Copy To:
Purchase Order No.:
Project Name: Short Stop
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): BTEX/MN	12 VOA	Lead	EDB	Nitrate	Sulfate	Ferrous Iron	8 oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13	WT	G	12/8/08			1010											X	X								9233818 013
2	MW-14						1020																				014
3	MW-15						1050																				015
4	MW-16						1030																				016
5	MW-17						1040																				017
6	MW-18						1120											X	X	X	X	X	X	X			019
7	MW-19						1340											X	X	X	X	X	X	X			020
8	DW-1						1220																				018
9	DW-2	X	X	X			1110											X	X	X	X	X	X	X	X		021
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		12/8/08	1700	Jamell Clark	12/9/08	945	2.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

[redacted] Note: [redacted] this for[redacted] accepti[redacted] NET 2[redacted]ment ter[redacted] agreeing [redacted] charges of [redacted]% month f[redacted] voices not paid within 30 days. [redacted]

Pace Analytical

Sample Condition Upon Receipt

Client Name: KLM Project # 9233818

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other ____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other ____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 2.5 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date: N/A
Proj. Name: N/A

Date and Initials of person examining contents: 12/9/08

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC: 12/9/08	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. NO DATE ON ANY BOTTLES
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N / N/A

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: [signature] Date: 12/10/08

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

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 28.95 ft. Almost Dry

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (mS/cm)								
Turbidity (*)								
Dissolved Oxygen								
Water Temp (°C)								
Salinity								
OVA Readings								

Sample Time: 1330

Insuff vol.

only BTEXNM collected
no Lead

serverC/admin/DHECfielddatasht/doc.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-28

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 21.46 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1310							
pH (s.u.)	4.11							
Specific Cond. (mS/cm)	.145							
Turbidity (*)	314							
Dissolved Oxygen	2.91							
Water Temp (°C)	19.2							
Salinity	0							
OVA Readings	—							

Sample Time: 1310

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. ____ — serial no. ____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 3R

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ____ ft.
Depth to GW (DWG) 31.39 ft.

Length of Water Column (LWC=TWD-DGW) ____ ft.

1 Csg. Volume (LWC*C)= ____ x .163 = ____ gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1320							
pH (s.u.)	4.17							
Specific Cond. (mS/cm)	.141							
Turbidity (*)	231							
Dissolved Oxygen	5.71							
Water Temp (°C)	19.5							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. ____ — serial no. ____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 4R

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ____ft.
Depth to GW (DWG) 31.10 ft.

Length of Water Column (LWC=TWD-DGW) ____ft.

1 Csg. Volume (LWC*C)= ____ x .163 = ____ gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1250							
pH (s.u.)	4.68							
Specific Cond. (mS/cm)	.150							
Turbidity (*)	212							
Dissolved Oxygen	5.14							
Water Temp (°C)	17.1							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. ____ — serial no. ____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-5

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ____ ft.
Depth to GW (DWG) 31.58 ft.

Length of Water Column (LWC=TWD-DGW) ____ ft.

1 Csg. Volume (LWC*C)= ____ x .163 = ____ gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1300							
pH (s.u.)	4.03							
Specific Cond. (mS/cm)	.060							
Turbidity (*)	207							
Dissolved Oxygen	1.90							
Water Temp (°C)	18.9							
Salinity	0							
OVA Readings	-							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 30.47 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1240							
pH (s.u.)	4.94							
Specific Cond. (mS/cm)	1060							
Turbidity (*)	134							
Dissolved Oxygen	9.00							
Water Temp (°C)	16.5							
Salinity	0							
OVA Readings	—							

Sample Time: 1240

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 7

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.38 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1230							
pH (s.u.)	4.97							
Specific Cond. (mS/cm)	.159							
Turbidity (*)	202							
Dissolved Oxygen	3.00							
Water Temp (°C)	16.9							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-3

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 28.56 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1200							
pH (s.u.)	3.52							
Specific Cond. (mS/cm)	.054							
Turbidity (*)	3.4							
Dissolved Oxygen	7.55							
Water Temp (°C)	18.3							
Salinity	0							
OVA Readings	—							

Sample Time: 1200

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. ____ — serial no. ____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 9

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) ____ft.
Depth to GW (DWG) 29.34 ft.

Length of Water Column (LWC=TWD-DGW) ____ft.

1 Csg. Volume (LWC*C)= ____ x .163 = ____ gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1150							
pH (s.u.)	7.22							
Specific Cond. (mS/cm)	.096							
Turbidity (*)	147							
Dissolved Oxygen	4.58							
Water Temp (°C)	16.7							
Salinity	0							
OVA Readings	-							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 10

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.39 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1140							
pH (s.u.)	6.51							
Specific Cond. (mS/cm)	1126							
Turbidity (*)	131							
Dissolved Oxygen	3.48							
Water Temp (°C)	16.3							
Salinity	0							
OVA Readings	-							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 11

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 27.44 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1130							
pH (s.u.)	4.34							
Specific Cond. (mS/cm)	.082							
Turbidity (*)	5.7							
Dissolved Oxygen	3.57							
Water Temp (°C)	17.7							
Salinity	0							
OVA Readings	-							

Sample Time: 1130

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 12

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 28.29 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1000							
pH (s.u.)	3.94							
Specific Cond. (mS/cm)	.039							
Turbidity (*)	439							
Dissolved Oxygen	3.42							
Water Temp (°C)	19.2							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 13

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 28.89 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1910							
pH (s.u.)	3.87							
Specific Cond. (mS/cm)	.057							
Turbidity (*)	270							
Dissolved Oxygen	3.74							
Water Temp (°C)	19.5							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 14

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.37 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1020							
pH (s.u.)	4.30							
Specific Cond. (mS/cm)	.116							
Turbidity (*)	199							
Dissolved Oxygen	3.11							
Water Temp (°C)	20.0							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW- 15

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 23.35 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1050							
pH (s.u.)	4.97							
Specific Cond. (mS/cm)	.112							
Turbidity (*)	133							
Dissolved Oxygen	7.42							
Water Temp (°C)	16.2							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 16

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.44 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	1030							
pH (s.u.)	4.61							
Specific Cond. (mS/cm)	1104							
Turbidity (*)	219							
Dissolved Oxygen	4.31							
Water Temp (°C)	19.1							
Salinity	0							
OVA Readings	—							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW-17

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ft.
Depth to GW (DWG) 29.11 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	-							
Time (military)	1040							
pH (s.u.)	4.66							
Specific Cond. (mS/cm)	.086							
Turbidity (*)	137							
Dissolved Oxygen	7.41							
Water Temp (°C)	20.1							
Salinity	0							
OVA Readings	-							

Sample Time:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter	Horiba	Conductivity Meter:	Horiba
serial no.		serial no.	
pH=4.0	Internal	Standard	Internal
pH=7.0	Internal	Standard	Internal
pH=10.0	Internal	Standard	Internal

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 26.69 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	4	8	13					
Time (military)	1128	1116	1119					
pH (s.u.)	5.31	4.71	4.73					
Specific Cond. (mS/cm)	.097	.100	.100					
Turbidity (*)	2.43	2.67	2.73					
Dissolved Oxygen	5.72	5.35	6.03					
Water Temp (°C)	19.0	19.5	19.1					
Salinity	0	0	0					
OVA Readings	–	–	–					

Sample Time: 1120

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- 19

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 40 ft.
Depth to GW (DWG) 33.26 ft.

Length of Water Column (LWC=TWD-DGW) _____ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	2							
Time (military)	1335							
pH (s.u.)	4.21							
Specific Cond. (mS/cm)	.142							
Turbidity (*)	196							
Dissolved Oxygen	4.93							
Water Temp (°C)	19.2							
Salinity	0							
OVA Readings	—							

Sample Time: 1340

Dry @ 2 gal.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08.
Field Personnel J. Boots and M. Bennett.
General Weather Condition Sunny.
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. ____ — serial no. ____
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- Dw-1

Well Diameter(D) 2 Inches or ____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) 60 ft.
Depth to GW (DWG) 29.02 ft.

Length of Water Column (LWC=TWD-DGW) ____ft.

1 Csg. Volume (LWC*C)= ____ x .163 = ____ gals.
3 Csg. Volumes = 3 x ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	5							
Time (military)	1210	~~1215~~						
pH (s.u.)	4.45							
Specific Cond. (mS/cm)	.130							
Turbidity (*)	545							
Dissolved Oxygen	4.13							
Water Temp (°C)	17.9							
Salinity	0							
OVA Readings	—							

Sample Time: 1220

Dye 5 gal/min

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 12/8/08
Field Personnel J. Boots and M. Bennett
General Weather Condition Sunny
Ambient Air Temperature 55 °F
Facility Name Short Stop Site ID# 05678

Quality Assurance:

pH Meter Horiba — Conductivity Meter: Horiba
serial no. — serial no.
pH=4.0 Internal — Standard Internal
pH=7.0 Internal — Standard Internal
pH=10.0 Internal — Standard Internal

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Well # MW- Dw-2

Well Diameter(D) 2 Inches or _____ feet
conversion factor(C): $3.143*(D/2)^2$
for a 2 inch well C=0.163
4 inch well C=0.652
Total Well Depth (TWD) _____ ft.
Depth to GW (DWG) 23.31 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ x .163 = _____ gals.
3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	8	16	24					
Time (military)	~~1110~~ 1053	1059	1105					
pH (s.u.)	4.66	5.00	5.22					
Specific Cond. (mS/cm)	.137	.146	.160					
Turbidity (*)	2.13	1.34	1.72					
Dissolved Oxygen	4.51	4.69	5.91					
Water Temp (°C)	18.5	18.3	17.9					
Salinity	0	0	0					
OVA Readings	—	—	—					

Sample Time: 1110

US Water Recovery

Non-Hazardous Wastewater Manifest Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Phone ( )
Youngs # 39 P O #:

3. Agent of Generator and Mailing Address: Phone (843) 870-4245
KLM Environmental
Po Box 8704 Goose Creek SC. 29445 P O #:

4. Transporter Company Name: Phone (843) 906-8759
EFR Tech.
118. Springhall D. Suite E Goose Creek S.C. 29445
Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:		Mailing Address:	
U S Water Recovery 435 Old Mt. Holly Rd. Mt. Holly, SC 29445	Phone: (843) 797-8674 Fax: (843) 797-2126	U S Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	Phone: (843) 797-3111 Fax: (843) 797-0710

7. Facility U.S. EPA ID#:

Start Level: End Level: Total Gallons: Tank Number

8. U.S. DOT Desciption	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				326
Youngs #27				10.2
Sm # 69				14
Sm # 29				6
Short Stop				44

9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Jason Boals Signature: Jason Boals Date: 12-22-08

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Wayne Infinger Signature: Wayne Infinger Date: 12-22-08

11. Discrepancy indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: David Ward Signature: David Ward Date: 12-22-08

White - Facility Yellow - Transporter Pink - Generator

5572

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: KLM ENVIRON., INC, PO BOX 2704 GOOSE CREEK, SC

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

Generator's Phone:

6. Transporter 1 Company Name: KLM ENVIRON, INC,

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: ATSM 366 Transwater Dr. Walterboro SC 29488

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	CORNER STOP WARE SHOALS, SC DRILL CUTTINGS	12	55		
2.	SHORT STOP CLINTON, SC DRILL DRILL CUTTINGS	5	55		
3.					
4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: JIM A. PEURIFOY for KLM — Signature: [signature] — Month 12 Day 8 Year 08

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: JIM A. PEURIFOY for KLM — Signature: [signature] — Month 12 Day 8 Year 08

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: Robert Hogan — Signature: [signature] — Month 12 Day 8 Year 08

169-BLS-C 5 11979 (Rev. 8/06)

TRANSPORTER #1

TABLE 1 Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-1	7/21/08	103.47	20 - 40	28.58	28.79	--
	12/8/08			--	28.95	74.52
MW-2R	7/21/08	105.11	20 - 40	--	30.73	74.38
	12/8/08			--	31.46	73.65
MW-3R	7/21/08	105.67	20 - 40	--	30.74	74.93
	12/8/08			--	31.39	74.28
MW-4R	7/21/08	104.44	20 - 40	--	30.20	74.24
	12/8/08			--	31.10	73.34
MW-5	7/21/08	105.62	20 - 40	--	30.89	74.73
	12/8/08			--	31.58	74.04
MW-6	7/21/08	103.87	20 - 40	--	29.70	74.17
	12/8/08			--	30.47	73.40
MW-7	7/21/08	102.55	20 - 40	--	28.63	73.92
	12/8/08			--	29.38	73.17
MW-8	7/21/08	101.82	20 - 40	--	27.81	74.01
	12/8/08			--	28.56	73.26
MW-9	7/21/08	102.03	20 - 40	--	28.46	73.57
	12/8/08			--	29.34	72.69
MW-10	7/21/08	102.30	20 - 40	--	28.65	73.65
	12/8/08			--	29.39	72.91
MW-11	7/21/08	100.45	20 - 40	--	26.70	73.75
	12/8/08			--	27.44	73.01
MW-12	7/21/08	102.40	20 - 40	--	28.22	74.18
	12/8/08			--	28.29	74.11
MW-13	7/21/08	101.91	20 - 40	--	28.20	73.71
	12/8/08			--	28.89	73.02
MW-14	7/21/08	101.77	20 - 40	--	28.62	73.15
	12/8/08			--	29.37	72.40
MW-15	7/21/08	94.60	11 - 31	--	22.54	72.06
	12/8/08			--	23.35	71.25
MW-16	7/21/08	101.26	19 - 39	--	28.69	72.57
	12/8/08			--	29.44	71.82

TABLE 1 CONT. Historical Groundwater Data (feet) Short Stop Clinton, SC						
Monitoring Well	**Date**	**TOC Elevation**	**Screened Interval**	**TOC to FP**	**TOC to GW**	**GW Elevation**
MW-17	7/21/08	101.69	20 - 40	--	28.42	73.27
	12/8/08			--	29.11	72.58
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
DW-1	7/21/08	102.23	58 - 63	--	28.30	73.93
	12/8/08			--	29.02	73.21
DW-2	12/8/08	94.62	40-60	--	23.31	71.31

KLM Environmental, LLC
Phase I·Phase II·Underground Storage Tanks·Soil & Water Sampling·Well Installation
PO Box 2704
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

facsimile transmittal

To:	Maia Milenkova	**Fax:**	803-896-6245
From:	April Infinger	**Date:**	1/7/09
Re:	Short Stop / Site ID 05678	**Pages:**	3 including cover
CC:			

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Ms. Milenkova,

The corrected well log and Groundwater Data Table are attached. Feel free to contact me at 843-797-7884 if you have any questions.

Thank you!

April Infinger

UST DOCKET
8A tech

Project # 05143.2
Tier II Addendum

Short Stop
Site ID# 05678

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	12/8/08	103.47	19-29	--	28.95	74.52
MW-2R	12/8/08	105.11	20 - 40	--	31.46	73.65
MW-3R	12/8/08	105.67	20 - 40	--	31.39	74.28
MW-4R	12/8/08	104.44	20 - 40	--	31.10	73.34
MW-5	12/8/08	105.62	20 - 40	--	31.58	74.04
MW-6	12/8/08	103.87	20 - 40	--	30.47	73.40
MW-7	12/8/08	102.55	20 - 40	--	29.38	73.17
MW-8	12/8/08	101.82	20 - 40	--	28.56	73.26
MW-9	12/8/08	102.03	20 - 40	--	29.34	72.69
MW-10	12/8/08	102.30	20 - 40	--	29.39	72.91
MW-11	12/8/08	100.45	20 - 40	--	27.44	73.01
MW-12	12/8/08	102.40	20 - 40	--	28.29	74.11
MW-13	12/8/08	101.91	20 - 40	--	28.89	73.02
MW-14	12/8/08	101.77	20 - 40	--	29.37	72.40
MW-15	12/8/08	94.60	11 - 31	--	23.35	71.25
MW-16	12/8/08	101.26	19 - 39	--	29.44	71.82
MW-17	12/8/08	101.69	20 - 40	--	29.11	72.58
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
DW-1	12/8/08	102.23	58 - 63	--	29.02	73.21
DW-2	12/8/08	94.62	55-60	--	23.31	71.31

*** Telescoping wells not used to construct the shallow piezometric map**

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements. Historical groundwater elevations are provided in Appendix F.

DHEC — South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: PO Box 3227 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone, Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 513 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: DW-2

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See attached geologist log for detailed	60	60
lithology		
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22083

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) 60 ft. Date Started: 12/2/2008 Date Completed: 12/2/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2" in. to 55 ft. depth
in. to ft. depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 5.0
Set Between: 55 ft. and 60 ft
ft. and ft.
Sieve Analysis ☐ Yes (please enclose) ☒ No
NOTE: MULTIPLE SCREENS USE SECOND SHEET

12. STATIC WATER LEVEL app. 40' at TOC ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 53 ft. to 60.0 ft.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 50 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date Installed: Not Installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Address: (Print) Jim A. Peuritoy CERT. NO.: 835
Cypress Bay Geological
252 Geology Lane
Walterboro, South Carolina 29488
Telephone No.: 843.908.5050 Fax No.: 843.538.4017
Level A ☒ B ☐ C ☐ D

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

Signed: Well Driller Date: 12/2/2008

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

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

RECEIVED
JAN 08 2009
UNDERGROUND STORAGE TANK PROGRAM

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	12/8/08	103.47	19-29	--	28.95	74.52
MW-2R	12/8/08	105.11	20 - 40	--	31.46	73.65
MW-3R	12/8/08	105.67	20 - 40	--	31.39	74.28
MW-4R	12/8/08	104.44	20 - 40	--	31.10	73.34
MW-5	12/8/08	105.62	20 - 40	--	31.58	74.04
MW-6	12/8/08	103.87	20 - 40	--	30.47	73.40
MW-7	12/8/08	102.55	20 - 40	--	29.38	73.17
MW-8	12/8/08	101.82	20 - 40	--	28.56	73.26
MW-9	12/8/08	102.03	20 - 40	--	29.34	72.69
MW-10	12/8/08	102.30	20 - 40	--	29.39	72.91
MW-11	12/8/08	100.45	20 - 40	--	27.44	73.01
MW-12	12/8/08	102.40	20 - 40	--	28.29	74.11
MW-13	12/8/08	101.91	20 - 40	--	28.89	73.02
MW-14	12/8/08	101.77	20 - 40	--	29.37	72.40
MW-15	12/8/08	94.60	11 - 31	--	23.35	71.25
MW-16	12/8/08	101.26	19 - 39	--	29.44	71.82
MW-17	12/8/08	101.69	20 - 40	--	29.11	72.58
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
MW-19	12/8/08	106.86	20 - 40	--	33.26	73.60
DW-1	12/8/08	102.23	58 - 63	--	29.02	73.21
DW-2	12/8/08	94.62	55-60	--	23.31	71.31

*** Telescoping wells not used to construct the shallow piezometric map**

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements. Historical groundwater elevations are provided in Appendix F.

UST DOCKET

DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Worsley Companies, Inc. (last) (first)
Address: PO Box 3227 10 South Cardinal Drive
City: Wilmington State: NC Zip: 28406
Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: DW-2

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See attached geologist log for detailed	60	60
lithology		
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22063

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) 60 ft. Date Started: 12/2/2008 Date Completed: 12/2/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2" in. to 55 ft. depth
in. to ft, depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 5.0
Set Between: 55 ft. and 60 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app. 40' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 53 ft. to 60.0 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 50 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 12/2/2008

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

DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

TABLE 1
Groundwater Data (feet)
Short Stop
Clinton, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
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MW-3R	12/8/08	105.67	20 - 40	--	31.39	74.28
MW-4R	12/8/08	104.44	20 - 40	--	31.10	73.34
MW-5	12/8/08	105.62	20 - 40	--	31.58	74.04
MW-6	12/8/08	103.87	20 - 40	--	30.47	73.40
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MW-10	12/8/08	102.30	20 - 40	--	29.39	72.91
MW-11	12/8/08	100.45	20 - 40	--	27.44	73.01
MW-12	12/8/08	102.40	20 - 40	--	28.29	74.11
MW-13	12/8/08	101.91	20 - 40	--	28.89	73.02
MW-14	12/8/08	101.77	20 - 40	--	29.37	72.40
MW-15	12/8/08	94.60	11 - 31	--	23.35	71.25
MW-16	12/8/08	101.26	19 - 39	--	29.44	71.82
MW-17	12/8/08	101.69	20 - 40	--	29.11	72.58
MW-18	12/8/08	98.19	20 - 40	--	26.69	71.50
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DW-2	12/8/08	94.62	55-60	--	23.31	71.31

*** Telescoping wells not used to construct the shallow piezometric map**

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DHEC
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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Address: PO Box 3227 10 South Cardinal Drive
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Telephone. Work: Home:

2. LOCATION OF WELL: COUNTY: Laurens
Name: Short Stop
Street Address: 613 Musgrove Street
City: Clinton State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: DW-2

4. ABANDONIMENT: ☐ Yes ☐ No
Grouted Depth: from ft. to ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
See attached geologist log for detailed	60	60
lithology		
• Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UMW-22063

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☒ MonitorWell ☐ Replacement

9. WELL DEPTH (completed) Date Started: 12/2/2008
60 ft. Date Completed: 12/2/2008

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
2" in. to 55 ft. depth
in. to ft, depth
Height Above ☐ Below ☐ Surface ft
Weight lb./ft,
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 5.0
Set Between: 55 ft. and 60 ft
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL app. 40' at TOD ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 53 ft. to 60.0 lt.
Effective size #2 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 50 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes Type: Amount:

18. PUMP: Date installed: Not installed ☒
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Jim A. Peurifoy CERT. NO.: 835
Address: (Print)
Cypress Bay Geological
262 Geology Lane
Walterboro, South Carolina 29488
Level A ☒ B ☐ C ☐ D
Telephone No.: 843.908.5050 Fax No.: 843.538.4017

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

Signed: Well Driller Date: 12/2/2008

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

DHEC 1903 (07/2003)

COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)