D H E C
PROMOTE PROTECT PROSPER

UST# 11929

Briney, Stephanie M. <brineysm@dhec.sc.gov>

Fuel Fluorescence Screening - Temporary Monitoring Well Approvals

1 message

Trevor Benton <trevor@blecorp.com> Thu, Sep 6, 2012 at 4:43 PM
To: "Briney, Stephanie M." <brineysm@dhec.sc.gov>

Hey Stephanie,

As discussed, we plan to perform several fuel fluorescence borings at the Former Ryder Truck Terminal in Greenville this weekend. I have attached a site map showing the proposed locations along with existing monitoring wells for reference. We a requesting a permit to perform up to 11 borings throughout the site. This is a similar request as to the one I sent Susan for the demonstration we performed in Columbia.

Please let me know if you have any questions or need any additional information.

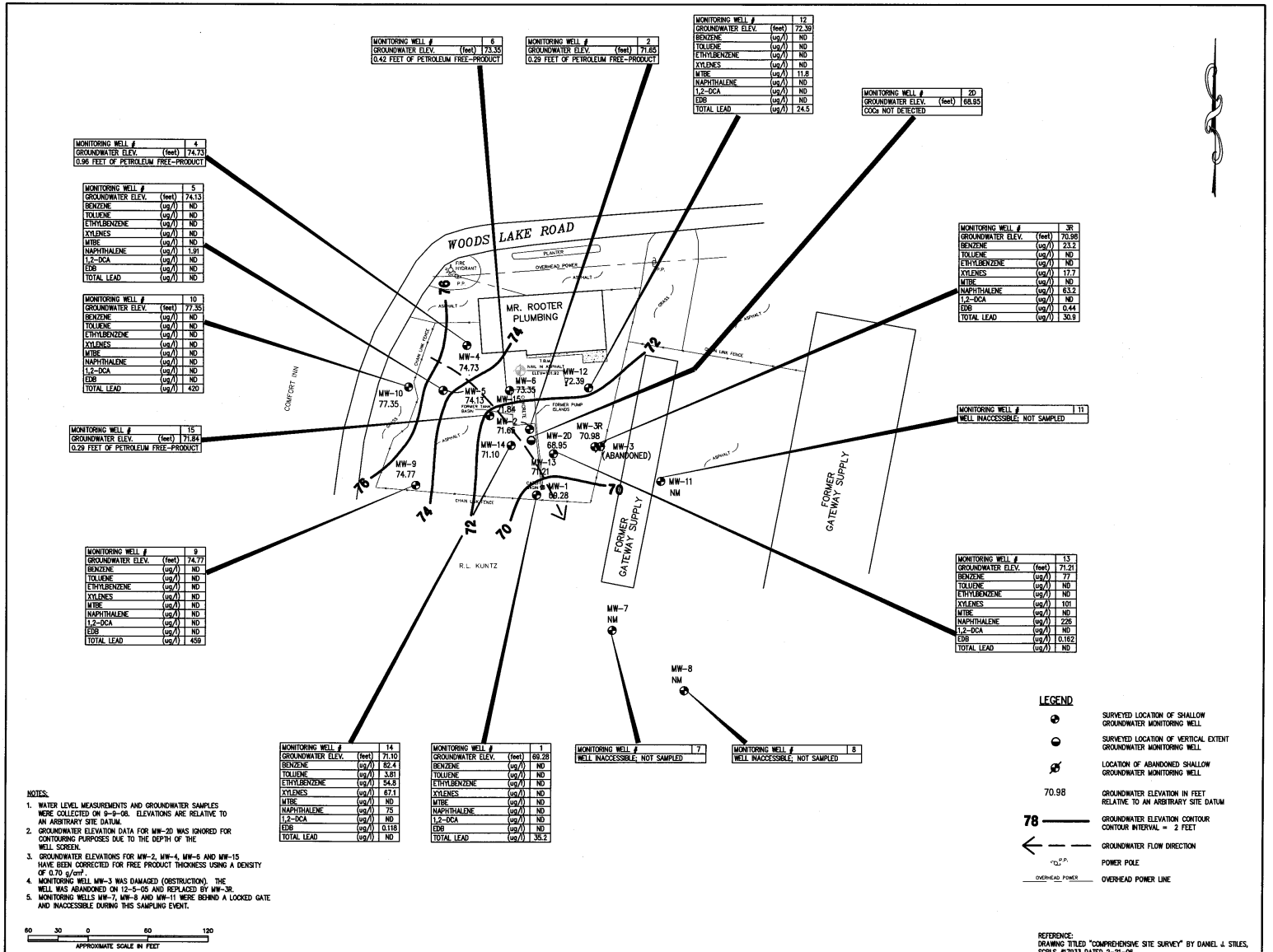
Thank you very much for your assistance.

Sincerely,

Trevor J. Benton, P.G.
Project Hydrogeologist
Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
(864) 288-1265 (office)
(864) 288-4430 (fax)
(864) 346-8208 (cell)

Ryder Truck - FFD Demo Boring Locations.pdf
248K


Woods Lake Rd
MW-14
MW-17
MW-6
MW-12
MW-15
MW-18
MW-2
MW-14
MW-3R
MW-13
MW-1
Frontage Rd
98 ft
Image City of Greenville GIS
© 2012 Google
EXISTING MONITORING WELL LOCATION
= PROPOSED FFD BORING LOCATION
Google



NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 9-9-08. ELEVATIONS ARE RELATIVE TO AN ARBITRARY SITE DATUM.
2. GROUNDWATER ELEVATION DATA FOR MW-2D WAS IGNORED FOR CONTOURING PURPOSES DUE TO THE DEPTH OF THE WELL SCREEN.
3. GROUNDWATER ELEVATIONS FOR MW-2, MW-4, MW-6 AND MW-15 HAVE BEEN CORRECTED FOR FREE PRODUCT THICKNESS USING A DENSITY OF 0.70 g/cm³.
4. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.
5. MONITORING WELLS MW-7, MW-8 AND MW-11 WERE BEHIND A LOCKED GATE AND INACCESSIBLE DURING THIS SAMPLING EVENT.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-08.

REVISIONS			DRAWN: AEH	DATE: 10-3-08	BUNNELL-LAMMONS ENGINEERING, INC.	GROUNDWATER COC AND POTENTIOMETRIC MAP	FIGURE NO.
No.	DESCRIPTION	BY	CHECKED: TJB	CAD FILE: FORMERRTT-12POT	6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA	2
			APPROVED:	JOB NO: J08-1010-12			

Stephanie

UST
AUG 3 0 2010
PROGRAM

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE (Former Ryder Terminal)

As the UST Owner/Operator of the UST Permit # 11929, I would like to use the contractor or person(s)* listed below and request that they represent me for:

☐ IGWA
☑ All future assessment scopes.**

Name of Contractor/Person(s) EXCALIBUR ENVIRONMENTAL SERVICES, INC.
Address 403 Cotton Hall Court
Simpsonville, SC 29680

Telephone Number 864-967-9744

Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.

UST
DOCKET
10 Feb

*indicate if the person listed is your own employee

** if you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? ____ Yes X No (please initial) R.A.V.

Financial Relationship: A connection or association through a material interest of sources of income which exceed five percent of annual gross income from a business entity.

Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.

3. PAYMENT

The first $25,000.00 in eligible site rehabilitation costs will be applied against the applicable SUPERB deductible, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.

For eligible costs exceeding the $25,000.00 deductible, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (check one)

____ For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor.

✓ For eligible costs exceeding the deductible, I request that payment be made directly to the contractor.

(Note: all costs must receive prior financial approval from the Department regardless of payment option.)

Underground Storage Tank Owner/Operator Signature Rebecca A. Vaughan P.R. Estate of R.B. Vaughan

Date 8/28/10

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST AGREEMENT # 38458

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615

September 8, 2010

BLE Project Number J10-1010-15

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

September 8, 2010

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report of Multiple Aggressive Fluid Vapor Recovery Event**
Former Ryder Truck Terminal
Greenville, Greenville County
UST Permit #11929; CA #38458
BLE Project No. J10-1010-15

Dear Ms. Briney:

Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of five aggressive fluid vapor recovery (AFVR) events at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated March 18, 2010. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE (864) 288-1265
FAX (864) 288-4430

Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, 2007, 2008 and 2009 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. In a continued effort to remove free-product concentrations at the site SCDHEC has required that five additional AFVR events be performed fifteen days apart. This report presents the results of the work performed.

COMPLETED SCOPE OF SERVICES

Between May 14, 2010 and July 29 2010, BLE personnel mobilized to the site to perform five AFVR events on existing monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The events were performed 15 days apart with AFVRs conducted in well groups specified by SCDHEC. This report presents the results of our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – MAY 14, 2010

On May 14, 2010, the first 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. A geologist from BLE was on site for observation and monitoring. The AFVR event was performed by Caro-Vac AFVR Services, LLC of Mauldin, South Carolina (Caro-Vac). Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122. BLE personnel measured 0.01 feet and 1.65 feet of petroleum free-product in MW-4 and MW-17, respectively, prior to initiating the AFVR event (Figure 2). Additionally, the initial depth to free-product/groundwater (feet below top of PVC casing (btoc)) in adjacent source area monitoring wells MW-5, MW-6, and MW-15 were measured and recorded on Table 1.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were clear; winds varied between 5 and 13 mph with an ambient temperature between 69º and 87º Fahrenheit. Throughout the duration of the AFVR event,

a continuous vacuum of 25 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in MW-5, MW-6, and MW-15, to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a granulated activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 Photo Ionization Detector (PID). The observed vapor concentrations are shown in Table 1.

At the completion of the AFVR event, a total volume of 375 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Approximately 0.5 gallons of free-phase product was measured in the holding tanks at the end of the AFVR event by Caro-Vac personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.39 pounds of gasoline vapor, which is equivalent to approximately 0.06 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 1A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.10, 2.52, and 0.47 feet of free-phase product was observed in MW-4, MW-6, and MW-15, respectively. Total water level changes for this event are shown in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – JUNE 3, 2010

On June 3, 2010, the second 8-hour AFVR event was conducted in monitoring wells MW-6 and MW-18. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122. BLE personnel measured 2.09 feet and 0.32 feet of petroleum free-product in MW-6 and MW-18, respectively (Figure 2). Additionally, the initial depth to free-product/groundwater (feet btoc) in adjacent source area wells MW-2, MW-15, and MW-17 was measured and recorded on Table 2.

The AFVR event was initiated at 1000 and concluded at 1800. The general weather conditions observed during this period of time were cloudy; winds varied between 4 and 12 mph with an ambient temperature between 68º and 87º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-6 and MW-18. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in MW-2, MW-15, and MW-17 to evaluate drawdown. Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 850 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Approximately 1.5 gallons of free-phase product was measured in the holding tanks at the end of the AFVR event by Caro-Vac personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.34 pounds of gasoline vapor, which is equivalent to approximately 0.06 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 2A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01, 0.35, 0.37 feet of free-phase product was observed in MW-6, MW-15 and MW-17, respectively. Total water level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 – JUNE 29, 2010

On June 29, 2010, the third 8-hour AFVR event was conducted in monitoring well MW-3R. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. No free-product was detected prior to initiating the AFVR event (Figure 2). Additionally, the initial depth to water (feet btoc) in adjacent source area wells MW-13 and MW-18 was measured and recorded on Table 3.

The AFVR event was initiated at 0900 and concluded at 1700. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 7 and 15 mph with an ambient temperature between 73º and 93º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-3R. In addition to collecting vacuum readings, the depth to free-product (feet btoc) was measured every 30 minutes in monitoring well MW-13 and MW-18 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 3.

At the completion of the AFVR event, a total volume of 660 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was

measured in the holding tanks at the end of the AFVR event by Caro-Vac personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.36 pounds of gasoline vapor, which is equivalent to approximately 0.06 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and no free-phase product was observed. Total water level changes for this event are shown in Table 3.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 – JULY 14, 2010

On July 14, 2010, the fourth 8-hour AFVR event was conducted in monitoring well MW-15. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. Prior to initiating the event, BLE personnel gauged 0.31 feet of free-phase petroleum product in MW-15 (Figure 2). Additionally, the initial depth to free-product/groundwater (feet btoc) in adjacent source area monitoring wells MW-6 and MW-14 were measured and recorded on Table 4.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 6 and 9 mph with an ambient temperature between 72º and 93º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-15. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in wells MW-6 and MW-14, to evaluate drawdown. Gauging data observed during the event is shown in Table 4.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 4.

At the completion of the AFVR event, a total volume of 575 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase petroleum product was measured in the holding tanks by Caro-Vac personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.15 pounds of gasoline vapor which is equivalent to approximately 0.02 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 1.70 feet and 0.05 feet of free-phase product was observed in MW-6 and MW-15, respectively. Total water level changes for this event are shown in Table 4.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #5 – JULY 29, 2010

On July 29, 2010, the fifth 8-hour AFVR event was conducted in monitoring well MW-6. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. Prior to initiating the event, BLE personnel gauged 1.35 feet of free-phase petroleum product in MW-6 (Figure 2). Additionally, the initial depth to free-product/groundwater in adjacent source area monitoring wells (feet btoc) MW-15, MW-17, and MW-18 were measured and recorded on Table 5.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 5 and 12 mph with an ambient temperature between 75º and 93º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-6. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in wells MW-15, MW-17, and MW-18, to evaluate drawdown. Gauging data observed during the event is shown in Table 5.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 5.

At the completion of the AFVR event, a total volume of 250 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Approximately 0.5 gallons of free-phase petroleum product was measured in the holding tanks by Caro-Vac personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.20 pounds of gasoline vapor which is equivalent to approximately 0.03 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.05 feet, 0.24 feet, 0.48 feet and 0.01 feet of free-phase product was observed in MW-6, MW-15, MW-17, and MW-18, respectively. Total water level changes for this event are shown in Table 5.

CONCLUSIONS AND RECOMMENDATIONS

On August 16, 2010, BLE personnel mobilized to the site to measure free-product levels in MW-2, MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 (Table 6). Approximately 0.02 feet (MW-2), 0.01 feet (MW-3R), 0.56 feet (MW-4), 1.03 feet (MW-6), 0.27 feet (MW-15), and 0.41 feet (MW-17) of free-phase product was measured in the wells. No free-product was observed in monitoring well MW-18.

Overall, the AFVR events have been successful in reducing free-product levels across the site. However, petroleum free-product persists at moderate thicknesses in each well monitored. Therefore, we recommend an additional series of multiple 8-hour AFVR events be conducted to 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. We recommend a series of five additional AFVR events be conducted on monitoring wells MW-2, MW-3R, MW-4, MW-6, MW-15, and MW-17, which still exhibit free-product thicknesses.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey Business Management, Division of Procurement Services for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G.
Principal
Registered, South Carolina #893

TABLES

TABLE 1

AFVR Gauging Data - May 14, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

	Monitoring Well Gauging Data							Air Emissions	
	Vacuum Readings (inches of Hg)		Depth to Free Product/ Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Time	MW-4	MW-17	MW-4	MW-5	MW-6	MW-15	MW-17		
0930	25	25	20.66/20.67	20.38	22.07/24.16	21.35/21.71	21.10/22.70	816	21
1000	25	25	AFVR EVENT	20.41	22.16/24.35	21.28/21.53	AFVR EVENT	454	17
1030	25	25		20.44	22.24/24.54	21.21/21.35		370	16
1100	25	25		20.46	22.32/24.71	21.03/21.3		254	15
1130	25	25		20.47	22.39/24.88	20.84/21.25		123	15
1200	25	25		20.47	22.47/24.93	20.85/21.27		116	14
1230	25	25		20.47	22.54/24.98	20.86/21.28		110	13
1300	25	25		20.47	22.56/25.01	20.86/21.28		106	13
1330	25	25		20.47	22.57/25.05	20.86/21.28		99	13
1400	25	25		20.47	22.59/25.08	20.86/21.28		91	13
1430	25	25		20.47	22.60/25.11	20.86/21.28		83	10
1500	25	25		20.47	22.60/25.11	20.86/21.29		76	10
1530	25	25		20.47	22.60/25.12	20.86/21.30		69	10
1600	25	25		20.47	22.61/25.12	20.86/21.31		65	10
1630	25	25		20.47	22.61/25.13	20.86/21.32		61	10
1700	25	25		20.47	22.61/25.13	20.86/21.33		57	9
1730	25	25	24.57/24.67	20.47	22.61/25.13	20.86/21.33	28.30	55	9
	Water Level Change (feet)		4.00	0.09	0.97	-0.38	5.60		
	Initial FP thickness (feet)		0.01	NP	2.09	0.36	1.60		
	Final FP thickness (feet)		0.10	NP	2.52	0.47	NP		

NOTES:

AFVR event performed on May 14, 2010.

0.01, 2.09, 0.36, and 1.60 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NP - Not Present

Prepared By:IAI
Checked By:RAD

TABLE 1A

AFVR Emissions Field Data - May 14, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
5/14/2010	930	25	678	3	128	92.4	816	0:00	19.28	1,264.65	5,058.62	4	2,524.05	1.58E-04	0.18	0.21	0.03
5/14/2010	1000	26	689	3	144	89.3	454	0:30	19.08	703.62	2,814.48	4	1,404.31	8.77E-05	0.10	0.12	0.02
5/14/2010	1030	26	701	3	160	88.8	370	1:00	18.91	573.43	2,293.74	4	1,144.49	7.15E-05	0.08	0.09	0.02
5/14/2010	1100	26	712	3	160	88.2	254	1:30	19.20	393.65	1,574.62	4	785.67	4.90E-05	0.06	0.07	0.01
5/14/2010	1130	26	724	3	160	87.7	123	2:00	19.53	190.63	762.51	4	380.46	2.38E-05	0.03	0.03	0.01
5/14/2010	1200	26	733	3	160	86.5	116	2:30	19.77	179.78	719.12	4	358.81	2.24E-05	0.03	0.03	0.00
5/14/2010	1230	26	744	3	160	86.0	110	3:00	20.07	170.48	681.92	4	340.25	2.12E-05	0.03	0.03	0.00
5/14/2010	1300	26	754	3	160	85.5	106	3:30	20.34	164.28	657.12	4	327.88	2.05E-05	0.02	0.03	0.00
5/14/2010	1330	26	763	3	160	84.2	99	4:00	20.58	153.43	613.73	4	306.23	1.91E-05	0.02	0.03	0.00
5/14/2010	1400	26	772	3	160	82.6	91	4:30	20.82	141.03	564.14	4	281.48	1.76E-05	0.02	0.03	0.00
5/14/2010	1430	26	783	3	160	81.1	83	5:00	21.12	128.64	514.54	4	256.74	1.60E-05	0.02	0.02	0.00
5/14/2010	1500	26	791	3	160	79.4	76	5:30	21.34	117.79	471.15	4	235.08	1.47E-05	0.02	0.02	0.00
5/14/2010	1530	26	801	3	160	77.3	69	6:00	21.61	106.94	427.75	4	213.43	1.33E-05	0.02	0.02	0.00
5/14/2010	1600	26	812	3	160	75.6	65	6:30	21.90	100.74	402.95	4	201.06	1.26E-05	0.02	0.02	0.00
5/14/2010	1630	26	823	3	160	73.1	61	7:00	22.20	94.54	378.16	4	188.69	1.18E-05	0.02	0.02	0.00
5/14/2010	1700	26	834	3	160	71.4	57	7:30	22.50	88.34	353.36	4	176.31	1.10E-05	0.01	0.02	0.00
5/14/2010	1730	26	842	3	160	69.0	55	8:00	22.71	85.24	340.96	4	170.13	1.06E-05	0.01	0.02	0.00
Average Values		26	762	3	157	82.2	177		20.64	273.95	1,095.82	4	546.77	3.41348E-05	0.04	0.05	0.01
B_{ws}	0.355	B_{wsw}	0.214														

Total Pounds of Carbon Recovered as Emissions: 0.34
Total Pounds of Gasoline Recovered as Emissions: 0.39
Total Gallons of Gasoline Recovered as Emissions: 0.06

NOTES:

AFVR event performed on May 14, 2010.
Vacuum applied to observation wells MW-4 and MW-17.
0.01, 2.09, 0.36, and 1.60 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: IAI
Checked By:RAD

TABLE 2

AFVR Gauging Data - June 3, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

	Monitoring Well Gauging Data							Air Emissions	
	Vacuum Readings (inches of Hg)		Dept to Free Product/Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-18	MW-2	MW-6	MW-15	MW-17	MW-18		
1000	25	25	21.91/21.94	22.06/24.15	20.64/20.98	21.26/21.74	21.96/22.28	427	17
1030	25	25	0.00/22.44	AFVR EVENT	20.97/21.31	21.44/21.95	AFVR EVENT	344	16
1100	25	25	0.00/22.94		21.30/21.64	21.61/22.15		269	15
1130	25	25	0.00/23.25		21.45/21.80	21.80/22.29		241	15
1200	25	25	0.00/23.55		21.60/21.95	21.98/22.43		213	15
1230	25	25	0.00/23.68		21.66/22.01	22.04/22.58		183	14
1300	25	25	0.00/23.81		21.71/22.06	22.10/22.72		148	14
1330	25	25	0.00/23.93		21.76/22.11	22.16/22.86		124	14
1400	25	25	0.00/24.05		21.81/22.15	22.22/23.00		98	13
1430	25	25	0.00/24.12		21.85/22.21	22.25/22.97		95	13
1500	25	25	0.00/24.19		21.89/22.26	22.27/22.94		92	13
1530	25	25	0.00/24.27		21.95/22.31	22.30/22.91		90	12
1600	25	25	0.00/24.35		22.00/22.35	22.33/22.88		87	12
1630	25	25	0.00/24.43		22.05/22.4	22.36/22.86		84	13
1700	25	25	0.00/24.51		22.10/22.45	22.38/22.83		81	12
1730	25	25	0.00/24.59		22.16/22.51	22.40/22.81		79	13
1800	25	25	0.00/24.67	27.74/27.75	22.21/22.56	22.42/22.79	26.40/26.41	77	12
	Water Level Change (feet)		2.73	3.60	1.58	1.05	4.13		
	Initial FP thickness (feet)		0.03	2.09	0.34	0.48	0.32		
	Final FP thickness (feet)		NP	0.01	0.35	0.37	NP		

NOTES:
AFVR event performed on June 3, 2010.
0.03, 2.09, 0.34, 0.48, and 0.32 feet of free-phase petroleum was detected in MW-2, MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NP - Not Present

Prepared By:IAI
Checked By:RAD

TABLE 2A

AFVR Emissions Field Data - June 3, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

WELL ID #: MW-6 and MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
6/3/2010	1000	25	702	3	150	92.3	427	0:00	18.31	695.74	2,782.95	4	1,388.58	8.67E-05	0.10	0.11	0.02
6/3/2010	1030	25	706	3	162	90.4	344	0:30	18.06	560.50	2,242.00	4	1,118.67	6.98E-05	0.08	0.09	0.01
6/3/2010	1100	25	711	3	166	88.6	269	1:00	18.07	438.30	1,753.19	4	874.77	5.46E-05	0.06	0.07	0.01
6/3/2010	1130	25	716	3	166	86.3	241	1:30	18.19	392.68	1,570.70	4	783.72	4.89E-05	0.05	0.06	0.01
6/3/2010	1200	25	721	3	166	85.5	213	2:00	18.32	347.05	1,388.22	4	692.67	4.32E-05	0.05	0.06	0.01
6/3/2010	1230	25	727	3	166	83.1	183	2:30	18.47	298.17	1,192.69	4	595.11	3.72E-05	0.04	0.05	0.01
6/3/2010	1300	25	735	3	166	78.6	148	3:00	18.68	241.15	964.58	4	481.29	3.00E-05	0.03	0.04	0.01
6/3/2010	1330	25	741	3	166	75.2	124	3:30	18.83	202.04	808.16	4	403.24	2.52E-05	0.03	0.03	0.01
6/3/2010	1400	25	747	3	166	72.6	98	4:00	18.98	159.68	638.71	4	318.69	1.99E-05	0.02	0.03	0.00
6/3/2010	1430	25	753	3	166	71.2	95	4:30	19.13	154.79	619.16	4	308.94	1.93E-05	0.02	0.03	0.00
6/3/2010	1500	25	758	3	166	69.4	92	5:00	19.26	149.90	599.60	4	299.18	1.87E-05	0.02	0.02	0.00
6/3/2010	1530	25	762	3	166	67.3	90	5:30	19.36	146.64	586.57	4	292.68	1.83E-05	0.02	0.02	0.00
6/3/2010	1600	25	768	3	166	64.3	87	6:00	19.52	141.75	567.02	4	282.92	1.77E-05	0.02	0.02	0.00
6/3/2010	1630	25	774	3	162	62.2	84	6:30	19.79	136.87	547.47	4	273.16	1.71E-05	0.02	0.02	0.00
6/3/2010	1700	25	781	3	160	60.4	81	7:00	20.04	131.98	527.91	4	263.41	1.64E-05	0.02	0.02	0.00
6/3/2010	1730	25	786	3	160	56.1	79	7:30	20.17	128.72	514.88	4	256.90	1.60E-05	0.02	0.02	0.00
6/3/2010	1800	25	792	3	160	54.2	77	8:00	20.32	125.46	501.84	4	250.40	1.56E-05	0.02	0.02	0.00
Average Values		25	746	3	164	74.0	161		19.03	261.85	1,047.39	4	522.61	3.26264E-05	0.04	0.04	0.01
B_{ws}	0.386	B_{wsw}	0.233														

Total Pounds of Carbon Recovered as Emissions: **0.30**

Total Pounds of Gasoline Recovered as Emissions: **0.34**

Total Gallons of Gasoline Recovered as Emissions: **0.06**

NOTES:

AFVR event performed on June 3, 2010.
Vacuum applied to observation wells MW-6 and MW-18.
0.03, 2.09, 0.34, 0.48, and 0.32 feet of free-phase petroleum was detected in MW-2, MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: IAI
Checked By:RAD

TABLE 3

AFVR Gauging Data - June 29, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-3R	MW-3R	MW-13	MW-18		
0900	25	22.03	21.24	22.32	461	17
0930	25	AFVR EVENT	21.35	22.37	373	16
1000	25		21.45	22.42	285	15
1030	25		21.53	22.46	240	15
1100	25		21.60	22.49	196	14
1130	25		21.65	22.53	189	14
1200	25		21.70	22.57	183	14
1230	25		21.73	22.59	178	13
1300	25		21.76	22.60	174	13
1330	25		21.79	22.62	168	13
1400	25		21.82	22.63	161	13
1430	25		21.84	22.65	147	13
1500	25		21.86	22.66	133	13
1500	25		21.89	22.69	120	13
1600	25		21.92	22.71	106	13
1630	25		21.95	22.74	93	12
1700	25	23.95	21.98	22.76	78	12
	Water Level Change (feet)	1.92	0.74	0.44		
	Initial FP thickness (feet)	NP	NP	NP		
	Final FP thickness (feet)	NP	NP	NP		

NOTES:
AFVR event performed on June 29, 2010.
No free-phase petroleum was detected prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water;
positive = drawdown; negative = rise
NP - Not Present

Prepared By:IAI
Checked By:RAD

TABLE 3A

AFVR Emissions Field Data - June 29, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

WELL ID #: MW-3R

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
6/29/2010	900	26	702	3	140	91.2	461	0:00	20.47	682.89	2,731.55	4	1,362.94	8.51E-05	0.10	0.12	0.02
6/29/2010	930	26	692	3	146	90.5	373	0:30	19.98	552.53	2,210.12	4	1,102.77	6.88E-05	0.08	0.10	0.02
6/29/2010	1000	26	680	3	150	89.5	285	1:00	19.50	422.17	1,688.70	4	842.60	5.26E-05	0.06	0.07	0.01
6/29/2010	1030	26	671	3	156	88.2	240	1:30	19.06	355.52	1,422.06	4	709.55	4.43E-05	0.05	0.06	0.01
6/29/2010	1100	26	664	3	158	87.4	196	2:00	18.80	290.34	1,161.35	4	579.47	3.62E-05	0.04	0.05	0.01
6/29/2010	1130	26	660	3	160	86.4	189	2:30	18.63	279.97	1,119.87	4	558.77	3.49E-05	0.04	0.05	0.01
6/29/2010	1200	26	654	3	160	85.1	183	3:00	18.46	271.08	1,084.32	4	541.04	3.38E-05	0.04	0.04	0.01
6/29/2010	1230	26	648	3	160	84.5	178	3:30	18.29	263.67	1,054.70	4	526.25	3.29E-05	0.04	0.04	0.01
6/29/2010	1300	26	642	3	160	82.6	174	4:00	18.12	257.75	1,031.00	4	514.43	3.21E-05	0.03	0.04	0.01
6/29/2010	1330	26	637	3	160	81.5	168	4:30	17.98	248.86	995.44	4	496.69	3.10E-05	0.03	0.04	0.01
6/29/2010	1400	26	632	3	160	78.2	161	5:00	17.84	238.49	953.97	4	475.99	2.97E-05	0.03	0.04	0.01
6/29/2010	1430	26	626	3	158	76.3	147	5:30	17.72	217.75	871.01	4	434.60	2.71E-05	0.03	0.03	0.01
6/29/2010	1500	26	620	3	154	74.3	133	6:00	17.67	197.01	788.06	4	393.21	2.45E-05	0.03	0.03	0.00
6/29/2010	1500	26	614	3	154	72.6	120	6:00	17.50	177.76	711.03	4	354.78	2.21E-05	0.02	0.03	0.00
6/29/2010	1600	26	606	3	154	71.5	106	7:00	17.27	157.02	628.08	4	313.39	1.96E-05	0.02	0.02	0.00
6/29/2010	1630	26	598	3	154	68.8	93	7:30	17.04	137.76	551.05	4	274.95	1.72E-05	0.02	0.02	0.00
6/29/2010	1700	26	590	3	154	65.1	78	8:00	16.81	115.54	462.17	4	230.61	1.44E-05	0.01	0.02	0.00
Average Values		26	643	3	155	80.8	193		18.30	286.24	1,144.97	4	571.30	3.5666E-05	0.04	0.05	0.01
B_{ws}	0.325	B_{wsw}	0.196														

Total Pounds of Carbon Recovered as Emissions: 0.31

Total Pounds of Gasoline Recovered as Emissions: 0.36

Total Gallons of Gasoline Recovered as Emissions: 0.06

NOTES:
AFVR event performed on June 29, 2010.
Vacuum applied to observation wells MW-3R.
No free-phase petroleum was detected prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: IAI
Checked By:RAD

TABLE 4

AFVR Gauging Data - July 14, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-15	MW-6	MW-14	MW-15		
0930	25	22.85/24.30	21.27	21.48/21.79	387	16
1000	25	22.91/24.42	21.46	AFVR EVENT	325	15
1030	25	21.65/24.54	21.65		264	14
1100	25	23.01/24.59	21.81		213	14
1130	25	23.05/24.63	21.97		163	13
1200	25	23.10/24.68	22.13		120	13
1230	25	23.14/24.72	22.29		76	12
1300	25	23.17/24.76	22.41		74	12
1330	25	23.19/24.80	22.52		71	12
1400	25	23.22/24.84	22.64		68	12
1430	25	23.25/24.88	22.76		65	12
1500	25	23.28/24.92	22.87		63	11
1530	25	23.31/24.95	22.98		60	11
1600	25	23.35/24.51	22.52		57	11
1630	25	23.39/24.07	22.05		55	11
1700	25	23.44/24.63	22.59		53	11
1730	25	23.48/25.18	23.12	25.25/25.3	49	11
	Water Level Change (feet)	0.88	1.85	3.51		
	Initial FP thickness (feet)	1.45	NP	0.31		
	Final FP thickness (feet)	1.70	NP	0.05		

NOTES:
AFVR event performed on July 14, 2010.
1.45 and 0.31 feet of free-phase petroleum was detected in MW-6 and MW-15 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NP - Not Present

Prepared By:IAI
Checked By:RAD

TABLE 4A

AFVR Emissions Field Data - July 14, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

WELL ID #: MW-15

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
7/14/2010	930	26	340	3	128	91.5	387	0:00	10.76	538.86	2,155.46	4	1,075.49	6.71E-05	0.04	0.05	0.01
7/14/2010	1000	26	345	3	150	88.2	325	0:30	10.53	452.53	1,810.14	4	903.19	5.64E-05	0.04	0.04	0.01
7/14/2010	1030	26	351	3	152	85.7	264	1:00	10.68	367.60	1,470.39	4	733.67	4.58E-05	0.03	0.03	0.01
7/14/2010	1100	26	356	3	158	83.1	213	1:30	10.72	296.58	1,186.34	4	591.94	3.70E-05	0.02	0.03	0.00
7/14/2010	1130	26	362	3	158	81.4	163	2:00	10.90	226.96	907.85	4	452.98	2.83E-05	0.02	0.02	0.00
7/14/2010	1200	26	369	3	158	78.2	120	2:30	11.11	167.09	668.36	4	333.48	2.08E-05	0.01	0.02	0.00
7/14/2010	1230	26	377	3	158	75.8	76	3:00	11.36	105.82	423.29	4	211.21	1.32E-05	0.01	0.01	0.00
7/14/2010	1300	26	386	3	160	73.2	74	3:30	11.59	103.04	412.15	4	205.65	1.28E-05	0.01	0.01	0.00
7/14/2010	1330	26	393	3	160	71.5	71	4:00	11.80	98.86	395.45	4	197.31	1.23E-05	0.01	0.01	0.00
7/14/2010	1400	26	405	3	160	67.3	68	4:30	12.16	94.68	378.74	4	188.97	1.18E-05	0.01	0.01	0.00
7/14/2010	1430	26	411	3	160	65.1	65	5:00	12.34	90.51	362.03	4	180.64	1.13E-05	0.01	0.01	0.00
7/14/2010	1500	26	418	3	160	62.4	63	5:30	12.55	87.72	350.89	4	175.08	1.09E-05	0.01	0.01	0.00
7/14/2010	1530	26	426	3	160	58.4	60	6:00	12.79	83.54	334.18	4	166.74	1.04E-05	0.01	0.01	0.00
7/14/2010	1600	26	434	3	160	53.5	57	6:30	13.03	79.37	317.47	4	158.41	9.89E-06	0.01	0.01	0.00
7/14/2010	1630	26	445	3	160	48.2	55	7:00	13.36	76.58	306.33	4	152.85	9.54E-06	0.01	0.01	0.00
7/14/2010	1700	26	452	3	160	45.6	53	7:30	13.57	73.80	295.19	4	147.29	9.20E-06	0.01	0.01	0.00
7/14/2010	1730	26	462	3	160	42.3	49	8:00	13.87	68.23	272.91	4	136.17	8.50E-06	0.01	0.01	0.00
Average Values		26	396	3	157	68.9	127		11.95	177.16	708.66	4	353.59	2.20748E-05	0.02	0.02	0.00
B_{ws}	0.282	B_{wsw}	0.17														

Total Pounds of Carbon Recovered as Emissions: **0.13**

Total Pounds of Gasoline Recovered as Emissions: **0.15**

Total Gallons of Gasoline Recovered as Emissions: **0.02**

NOTES:

AFVR event performed on July 14, 2010.
Vacuum applied to observation wells MW-15.
1.45 and 0.31 feet of free-phase petroleum was detected in MW-6 and MW-15 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: IAI
Checked By:RAD

TABLE 5

AFVR Gauging Data - July 29, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

	Monitoring Well Gauging Data					Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-6	MW-15	MW-17	MW-18		
0930	25	23.02/24.37	21.63/21.95	22.11/22.60	0.00/22.81	178	13
1000	25	AFVR EVENT	21.73/21.98	22.25/22.82	0.00/22.945	128	12
1030	25		21.82/22.00	22.38/23.03	23.07/23.08	63	11
1100	25		21.83/22.02	22.42/23.01	23.09/23.10	61	11
1130	25		21.83/22.03	22.46/23.08	23.10/23.11	60	11
1200	25		21.83/22.06	22.48/23.09	23.12/23.13	62	11
1230	25		21.83/22.09	22.49/23.10	23.13/23.14	62	11
1300	25		21.84/22.10	22.49/23.10	23.14/23.16	60	10
1300	25		21.84/22.11	22.48/23.10	23.15/23.17	61	10
1330	25		21.84/22.12	22.48/23.13	23.16/23.18	63	10
1400	25		21.84/22.13	22.48/23.15	23.17/23.18	60	11
1430	25		21.84/22.13	22.48/23.16	23.18/23.19	62	11
1500	25		21.84/22.13	22.48/23.17	23.19/23.20	63	11
1530	25		21.84/22.13	22.48/23.17	23.21/23.22	60	11
1600	25		21.84/22.13	22.48/23.17	23.22/23.23	61	10
1630	25		21.77/22.04	22.33/22.92	23.23/23.24	60	10
1700	25	27.40/27.45	21.70/21.94	22.1822.66	23.24/23.25	62	10
	Water Level Change (feet)	3.08	-0.01	0.06	0.44		
	Initial FP thickness (feet)	1.35	0.32	0.49	NP		
	Final FP thickness (feet)	0.05	0.24	0.48	0.01		

NOTES:
AFVR event performed on July 29, 2010.
1.53, 0.32, and 0.49 feet of free-phase petroleum was detected in MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NP - Not Present

Prepared By:IAI
Checked By:RAD

TABLE 5A

AFVR Emissions Field Data - July 29, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

WELL ID #: MW-6

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
7/29/2010	930	25	1,113	3	140	92.7	178	0:00	29.59	289.24	1,156.98	4	577.29	3.60E-05	0.06	0.07	0.01
7/29/2010	1000	25	1,087	3	156	91.3	128	0:30	28.15	208.00	831.99	4	415.13	2.59E-05	0.04	0.05	0.01
7/29/2010	1030	25	1,052	3	160	90.5	63	1:00	27.06	102.37	409.49	4	204.32	1.28E-05	0.02	0.02	0.00
7/29/2010	1100	25	1,037	3	164	88.2	61	1:30	26.51	99.12	396.49	4	197.83	1.24E-05	0.02	0.02	0.00
7/29/2010	1130	25	1,021	3	164	86.3	60	2:00	26.10	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1200	25	1,004	3	164	84.7	62	2:30	25.66	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
7/29/2010	1230	25	983	3	164	82.9	62	3:00	25.13	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
7/29/2010	1300	25	963	3	164	81.4	60	3:30	24.62	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1300	25	942	3	164	79.1	61	3:30	24.08	99.12	396.49	4	197.83	1.24E-05	0.02	0.02	0.00
7/29/2010	1330	25	920	3	160	77.1	63	4:00	23.67	102.37	409.49	4	204.32	1.28E-05	0.02	0.02	0.00
7/29/2010	1400	25	899	3	164	75.5	60	4:30	22.98	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1430	25	875	3	164	73.4	62	5:00	22.37	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
7/29/2010	1500	25	855	3	164	72.5	63	5:30	21.85	102.37	409.49	4	204.32	1.28E-05	0.02	0.02	0.00
7/29/2010	1530	25	833	3	164	71.2	60	6:00	21.29	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1600	25	817	3	160	69.1	61	6:30	21.02	99.12	396.49	4	197.83	1.24E-05	0.02	0.02	0.00
7/29/2010	1630	25	802	3	160	67.6	60	7:00	20.63	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1700	25	788	3	160	65.2	62	7:30	20.27	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
Average Values		25	941	3	161	79.3	72		24.17	117.19	468.76	4	233.89	1.46018E-05	0.02	0.02	0.00
B_{ws}	0.385	B_{wsw}	0.232														

Total Pounds of Carbon Recovered as Emissions: **0.17**

Total Pounds of Gasoline Recovered as Emissions: **0.20**

Total Gallons of Gasoline Recovered as Emissions: **0.03**

NOTES:

AFVR event performed on July 29, 2010.
Vacuum applied to observation wells MW-6.
1.53, 0.32, and 0.49 feet of free-phase petroleum was detected in MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: IAI
Checked By:RAD

TABLE 6

Post AFVR Gauging Data - August 16, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #38458
BLE Project Number J10-1010-15

Well ID	MW-2	MW-3R	MW-4	MW-6	MW-15	MW-17	MW-18
Depth to Free-Product / Groundwater	23.15 / 23.17	22.90 / 22.91	21.96 / 22.52	23.51 / 24.54	22.91 / 23.18	22.60 / 23.01	23.22
Free-Product Thickness (ft)	**0.02**	**0.01**	**0.56**	**1.03**	**0.27**	**0.41**	None

NOTES:
Measurements are in feet below top of casing

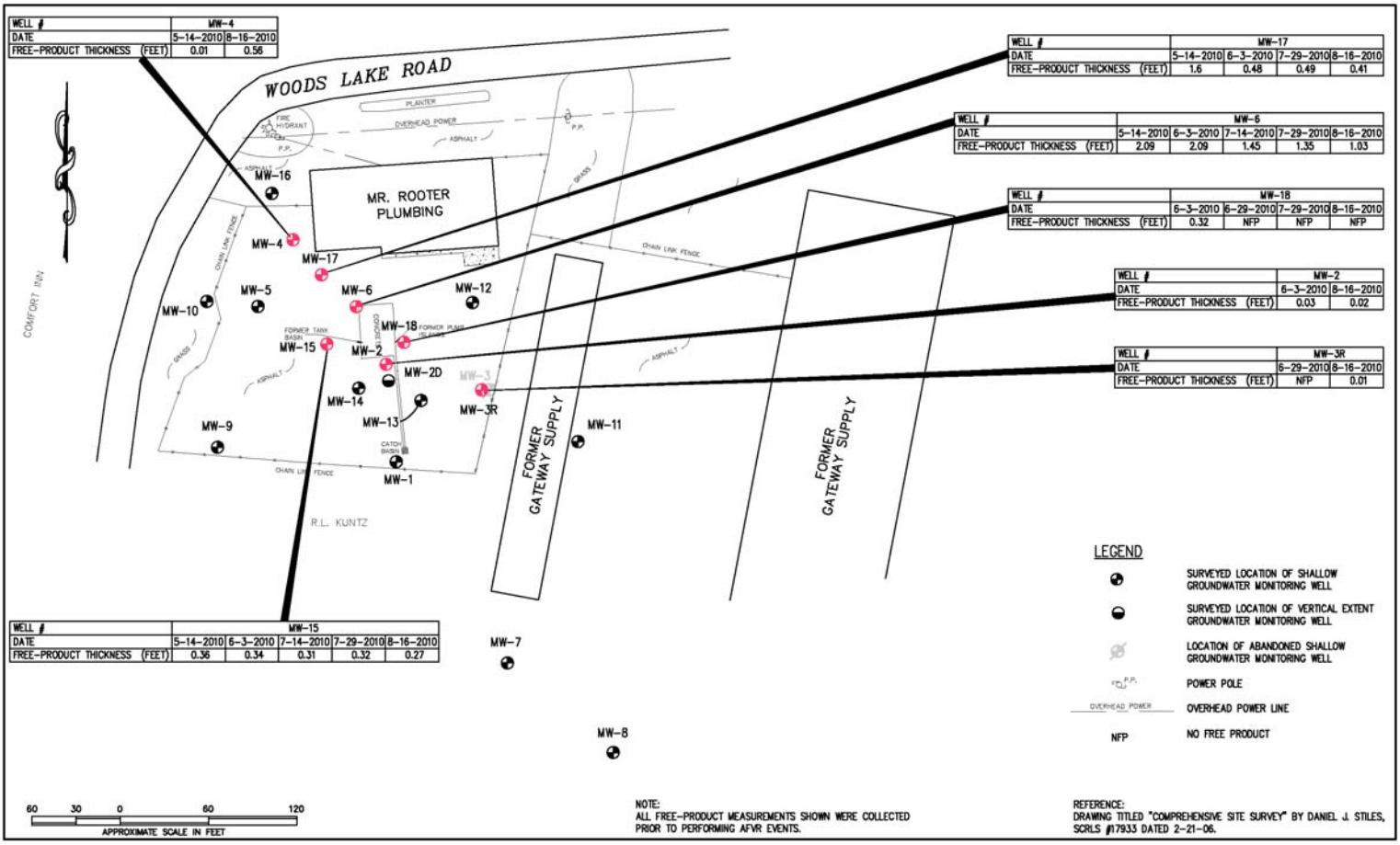
Prepared By: IAI
Checked By: TJB

FIGURES

1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 08-16-10	BLE INC.	FIGURE
CHECKED: IAI	CAD: FORMERRTT-15SLM	BUNDELL-LAMMONS ENGINEERING, INC.	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
APPROVED:	JOB NO: J10-1010-15	6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	1



WELL #	MW-4	
DATE	5-14-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	0.01	0.56

WELL #	MW-17			
DATE	5-14-2010	6-3-2010	7-29-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	1.6	0.48	0.49	0.41

WELL #	MW-6				
DATE	5-14-2010	6-3-2010	7-14-2010	7-29-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	2.09	2.09	1.45	1.35	1.03

WELL #	MW-18			
DATE	6-3-2010	6-29-2010	7-29-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	0.32	NFP	NFP	NFP

WELL #	MW-2	
DATE	6-3-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	0.03	0.02

WELL #	MW-3R	
DATE	6-29-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	NFP	0.01

WELL #	MW-15				
DATE	5-14-2010	6-3-2010	7-14-2010	7-29-2010	8-16-2010
FREE-PRODUCT THICKNESS (FEET)	0.36	0.34	0.31	0.32	0.27

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- NFP — NO FREE PRODUCT

60 30 0 60 120
APPROXIMATE SCALE IN FEET

NOTE:
ALL FREE-PRODUCT MEASUREMENTS SHOWN WERE COLLECTED PRIOR TO PERFORMING AFVR EVENTS.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	08-16-10
CHECKED BY:	IAI	FILE:	FORMERRTT-15FPTM
APPROVED BY:		JOB NO:	J10-1010-15

REVISIONS		
No.	DESCRIPTION	BY

BLE INC. BUSSELL-LAMBOMS ENGINEERING, INC.
5004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE (864)288-1255 FAX (864)288-4430

AFVR FREE-PRODUCT THICKNESS MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 2

APPENDICES

APPENDIX A

AFVR EVENTS WATER DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 385 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Ryder Truck Ter.
10 Woods Lake Rd.
Greenville, SC
c/o Caro-Vac AFVR Services, LLC
P. O. Box 996
Mauldin, SC 29662

5. Transporter 1 Company Name: Caro-Vac AFVR Services, LLC
6. US EPA ID Number:
A. State Transporter's ID:
B. Transporter 1 Phone: 864-967-9744

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 South Main Street
Mauldin, SC 29662
10. US EPA ID Number: SCR000762468
E. State Facility's ID:
F. Facility's Phone: 864-962-9953

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum Impacted Water, Profile # 6229			375	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SCDHEC Site ID # 11929

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Bradley A. Morris (Agent for Gen.)
Signature: Bradley A. Morris
Date: Month 5 Day 24 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Bradley A. Morris
Signature: Bradley A. Morris
Date: Month 5 Day 24 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
VLS

Printed/Typed Name: Brian Tripp
Signature: Brian Tripp
Date: Month 5 Day 24 Year 10

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 392

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Ryder Truck Terminal
10 Woods Lake Rd.
Greenwood, SC
c/o Caro-Vac AFVR Services, LLC
P. O. Box 996
Mauldin, SC 29662

4. Generator's Phone ( )

5. Transporter 1 Company Name
Caro-Vac AFVR Services, LLC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 864-967-9744

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 South Main Street
Mauldin, SC 29662

10. US EPA ID Number
SCR000762468

E. State Facility's ID

F. Facility's Phone 864-962-9953

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum Impacted Water, Profile # 6229			850	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

SCDHEC Site ID # 11929

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date (Month / Day / Year)
Bradley A. Morris (Agent for Gen.)	Bradley A. Morris	6 / 4 / 10

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Bradley A. Morris	Bradley A. Morris	6 / 4 / 10

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19

Printed/Typed Name	Signature	Date (Month / Day / Year)
VLS Amy Ramsey	Amy Ramsey	6 / 9 / 10

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID AND HAZARDOUS WASTE MANAGEMENT DIV
2600 BULL ST., COLUMBIA, SC 29201
PHONE: (803) 896-8940

MANIFEST

MANIFEST DOCUMENT NUMBER

№ 13463

A. Name	I.D. Code	Address	Phone Number Area Code and Number	Date Shipped Or Accepted
(1) Transporter No. 1 M&M Waste Oil	SCR000006379	13775 E. Wade Hampton Blvd. Greer, SC 29651	(864) 877-7737	10 / 6 / 29 (year / month / day)
(2) Transporter No. 2				/ /
(3) TSDF				/ /

B.

(1) Containers No.	(1) Containers Type	(2) DOT Proper Shipping Name/ Hazard Class/DOT I.D. Number	(3) Total Quantity	(4) Waste Collected From Name and Address	(5) Signature of person from whom waste is collected or their authorized Agent.
	Bulk	Petroleum-Impacted Water	660g	Former Ryder Truck Terminal 10 Woods Lake Rd Greenville SC SITE ID 11929	Bradley Morris Bradley Morris (Signature / Print Name)
					Signature / Print Name
					Signature / Print Name
					Signature / Print Name
					Signature / Print Name

TOTAL GALLONS UNLOADED

COMMENTS

C.

Emergency Response Information: In the event of an emergency, phone the transporter at:	In the event of a spill in South Carolina, call the Department at (803) 253-6488	D. Special Handling Instructions:
(864) 877-7737		DO NOT SPILL

F. I hereby certify that I am a Permitted Hazardous Waste Transporter in the state, that the above information is correct to the best of my knowledge and belief and is being transported in accordance with all applicable regulations in the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

Signature - Driver | Mitchell Mason, Owner (Print Name and Title) | 6-29-10 (Date)

G. I hereby certify that I am an authorized representative of the permitted transporter and that the waste and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above.

Transporter No. 2 Signature | Print Name and Title | Date

H. I hereby certify that I am an authorized representative of the TSDF identified above and that the waste and quantity described in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Signature | Print Name and Title | Date

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID AND HAZARDOUS WASTE MANAGEMENT DIV
2600 BULL ST., COLUMBIA, SC 29201
PHONE: (803) 896-8940

MANIFEST DOCUMENT NUMBER

№ 12990

MANIFEST

A. Name	I.D. Code	Address	Phone Number Area Code and Number	Date Shipped Or Accepted
(1) Transporter No. 1 M&M Waste Oil	SCR000006379	13775 E. Wade Hampton Blvd. Greer, SC 29651	(864) 877-7737	10 / 7 / 14 (year / month / day)
(2) Transporter No. 2				/ / (year / month / day)
(3) TSDF				/ / (year / month / day)

B.

(1) Containers No.	(1) Containers Type	(2) DOT Proper Shipping Name/ Hazard Class/DOT I.D. Number	(3) Total Quantity	(4) Waste Collected From Name and Address	(5) Signature of person from whom waste is collected or their authorized Agent.
	Bulk	Petroleum-impacted water	575g	Former Ryder Truck Termina 10 WOODS LAKE ROAD Greenville, SC SITE ID# 11929	Bradley Morris (Signature) / Bradley Morris (Print Name)
					Signature / Print Name
					Signature / Print Name
					Signature / Print Name
					Signature / Print Name

TOTAL GALLONS UNLOADED

COMMENTS

C.

Emergency Response Information: In the event of an emergency, phone the transporter at:	In the event of a spill in South Carolina, call the Department at (803) 253-6488	D. Special Handling Instructions:
(864) 877-7737		DO NOT SPILL

F. I hereby certify that I am a Permitted Hazardous Waste Transporter in the state, that the above information is correct to the best of my knowledge and belief and is being transported in accordance with all applicable regulations in the U.S. DOT, U.S. EPA, the S.C. PSC and the S.C. DHEC.

Signature - Driver | Mitchell Mason, Owner (Print Name and Title) | 7-14-10 (Date)

G. I hereby certify that I am an authorized representative of the permitted transporter and that the waste and quantity described in this Manifest have been accepted by us for ultimate delivery to the TSDF identified above.

Transporter No. 2 Signature | Print Name and Title | Date

H. I hereby certify that I am an authorized representative of the TSDF identified above and that the waste and quantity described in this Manifest have been accepted by me for treatment, storage, and/or disposal.

Signature | Print Name and Title | Date

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 403	2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address: Former Ryder Trucks, 10 Woods Lake Rd., Greenville, SC
c/o Caro-Vac AFVR Services, LLC
P O Box 996
Mauldin, SC 29662

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
Caro-Vac AFVR Services, LLC		B. Transporter 1 Phone 864-967-9744
7. Transporter 2 Company Name	**8. US EPA ID Number**	**C. State Transporter's ID**
M & M Waste Oil, LLC		D. Transporter 2 Phone 864-877-7737
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**E. State Facility's ID** SCR000006379
M & M Waste Oil, LLC 13775 East Wade Hampton Blvd. Greer, South Carolina 29651		F. Facility's Phone 864-877-7737

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum-Impacted Water			250	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

SCDHEC Site ID # 11929

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Bradley A. Morris (Agent for Gen.)	Bradley A. Morris	8 / 4 / 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Bradley A. Morris		

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
(M & M Waste Oil, LLC Driver)		

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
M & M Waste Oil, LLC Mitch Mason		

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

MAR 10 2011

Pfech
UST
DOCKET

Re: **AFVR Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA # 40379
Release #2 reported February 25, 1997
AFVR Report received September 10, 2010
Greenville County

Dear Ms. Mumbauer

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report and the next necessary scope of work is five Aggressive Fluid/Vapor Recovery (AFVR) events to remove free phase product from monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. Please conduct the AFVR events 15 days apart in the following order: the 1st AFVR event on MW-4 and MW-17; the 2nd AFVR event on MW-6 and MW-18; the 3rd AFVR event on MW-3R; the 4th AFVR event on MW-15; and the 5th AFVR event on MW-6.

Cost Agreement # 40379 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR and gauging activities may proceed immediately upon receipt of this letter. The AFVR Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather conditions during the AFVR event.
- 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.

Bunnell-Lammons Engineering, Inc. 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 120 days from the date of this letter. Interim invoices may 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. 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 or inquiries regarding this project, please reference **UST Permit # 11929**. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 40379

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM

PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		A EQUIPMENT	5.0000	575.00	2,875.00
		B PERSONNEL	5.0000	290.00	1,450.00
17 DISPOSAL					
		A2 WASTEWATER - PUMPING TEST	5,000.0000	0.60	3,000.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	23,725.00	3,558.75
23 EFR					
		A 8 HOUR EVENT	5.0000	3,000.00	15,000.00
		C OFF GAS TREATMENT	40.0000	35.00	1,400.00
			Total Amount		27,283.75

TABLE 1

AFVR Gauging Data - March 15, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-15	MW-14	MW-6	MW-15		
1000	27.0	24.46	27.66/29.90	24.65/25.70	271	1
1030	27.0	24.71	26.89/29.00		1,080	1
1100	27.0	24.95	26.11/28.10		1,541	1
1130	27.0	25.18	26.18/28.24		1,520	1
1200	26.5	25.40	26.25/28.38		1486	1
1230	26.5	25.49	26.29/28.42		1158	1
1300	26.5	25.58	26.33/28.46		924	1
1330	26.5	25.65	26.36/28.48		1137	1
1400	26.5	25.71	26.39/28.50		1058	1
1430	26.5	25.76	26.42/28.53		889	1
1500	26.5	25.81	26.45/28.55		852	1
1530	26.5	25.84	26.46/28.58		816	1
1600	26.5	25.86	26.47/28.60		828	1
1630	26.5	25.86	26.48/28.61		923	1
1700	26.5	25.87	26.49/28.63		865	1
1730	26.5	25.88	26.49/28.62		796	1
1800	26.5	25.89	26.49/28.63	27.95	813	1
	Water Level Change (feet)	1.43	0.97	2.25		
	Initial FP thickness (feet)	NFP	2.24	1.05		
	Final FP thickness (feet)	NFP	0.13	NFP		

AFVR EVENT

NOTES:

AFVR event performed on March 15, 2011.

2.24 and 1.05 feet of free-phase petroleum was detected in MW-6 and MW-15 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - Not free-phase petroleum product present

Prepared By:IAI
Checked By:MLT

TABLE 1A

AFVR Emissions Field Data - March 15, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-15

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
3/15/2011	1000	28.0	58	3	53.4	75.0	271	0:00	2.85	278.38	1,113.54	4	555.61	3.47E-05	0.01	0.01	0.00
3/15/2011	1030	28.0	38	3	66.2	81.4	1,080	0:30	1.82	1,109.43	4,437.71	4	2,214.24	1.38E-04	0.02	0.02	0.00
3/15/2011	1100	28.0	38	3	89.6	21.9	1,541	1:00	1.74	1,582.99	6,331.95	4	3,159.40	1.97E-04	0.02	0.02	0.00
3/15/2011	1130	28.0	58	3	92.6	18.0	1,520	1:30	2.65	1,561.42	6,245.66	4	3,116.34	1.95E-04	0.03	0.04	0.01
3/15/2011	1200	27.5	58	3	108.3	17.3	1,486	2:00	2.58	1,526.49	6,105.96	4	3,046.64	1.90E-04	0.03	0.03	0.01
3/15/2011	1230	27.5	58	3	104.9	35.2	1,158	2:30	2.59	1,189.55	4,758.21	4	2,374.16	1.48E-04	0.02	0.03	0.00
3/15/2011	1300	27.5	38	3	93.7	38.4	924	3:00	1.73	949.18	3,796.71	4	1,894.41	1.18E-04	0.01	0.01	0.00
3/15/2011	1330	27.5	38	3	95.3	41.9	1,137	3:30	1.73	1,167.98	4,671.92	4	2,331.11	1.46E-04	0.02	0.02	0.00
3/15/2011	1400	27.5	38	3	98.2	40.3	1,058	4:00	1.72	1,086.83	4,347.31	4	2,169.14	1.35E-04	0.01	0.02	0.00
3/15/2011	1430	27.5	38	3	92.6	42.2	889	4:30	1.74	913.22	3,652.89	4	1,822.65	1.14E-04	0.01	0.01	0.00
3/15/2011	1500	27.5	38	3	95.5	54.8	852	5:00	1.73	875.21	3,500.86	4	1,746.79	1.09E-04	0.01	0.01	0.00
3/15/2011	1530	27.5	38	3	95.5	50.9	816	5:30	1.73	838.23	3,352.93	4	1,672.98	1.04E-04	0.01	0.01	0.00
3/15/2011	1600	27.5	38	3	105.5	52.3	828	6:00	1.70	850.56	3,402.24	4	1,697.59	1.06E-04	0.01	0.01	0.00
3/15/2011	1630	27.5	38	3	105.5	57.2	923	6:30	1.70	948.15	4,740.75	5	2,365.45	1.48E-04	0.02	0.02	0.00
3/15/2011	1700	27.5	38	3	107.4	58.1	865	7:00	1.69	888.57	5,331.41	6	2,660.17	1.66E-04	0.02	0.02	0.00
3/15/2011	1730	27.5	38	3	109.3	56.4	796	7:30	1.68	817.69	5,723.82	7	2,855.97	1.78E-04	0.02	0.02	0.00
3/15/2011	1800	27.5	38	3	105.8	57.3	813	8:00	1.69	835.15	6,681.22	8	3,333.67	2.08E-04	0.02	0.02	0.00
Average Values		27.6	42.7	3	95.3	47.0	997		1.94	1,024.65	4,599.71	4.58824	2,295.08	1.43E-04	0.02	0.02	0.00
B_{ws}	0.027	B_{wsw}	0.016														

Total Pounds of Carbon Recovered as Emissions: 0.12

Total Pounds of Gasoline Recovered as Emissions: 0.14

Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:

AFVR event performed on March 15, 2011.
Vacuum applied to monitoring well MW-15.
0.01, 2.24, and 1.05 feet of free-phase petroleum was detected in MW-4, MW-6, and MW-15 prior to initiating the AFVR.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{ww} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 2

AFVR Gauging Data - March 30, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data							Air Emissions	
	Vacuum Readings (inches of Hg)		Dept to Free Product/Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-18	MW-2	MW-6	MW-15	MW-17	MW-18		
0800	26.5	26.0	24.96	25.48/27.05	24.25/24.63	24.70/27.19	24.95/25.28	204	--
0830	26.5	26.0	25.60		24.43/24.86	24.74/27.32		780	14
0900	26.5	26.0	26.24		24.60/25.09	24.77/27.44		1,040	16
0930	26.5	26.0	26.51		24.78/25.32	24.85/27.62		1,443	18
1000	26.5	26.0	26.78		24.95/25.54	24.93/27.80		1026	28
1030	26.0	26.0	26.92		25.01/25.56	24.99/27.90		1221	25
1100	26.0	26.0	27.06		25.07/25.58	25.05/27.99		1132	23
1130	26.0	26.0	27.16		25.12/25.63	25.10/28.08		1303	20
1200	26.0	26.0	27.25		25.17/25.67	25.14/28.16		1136	19
1230	26.0	26.0	27.33		25.22/25.70	25.18/28.21		1271	21
1300	26.0	26.0	27.41		25.27/25.73	25.22/28.25		1051	18
1330	26.0	26.0	27.47		25.29/25.74	25.24/28.29		1113	19
1400	26.0	26.0	27.52		25.31/25.75	25.26/28.33		1061	19
1430	26.0	26.0	27.54		25.33/25.77	25.29/28.38		1009	20
1500	26.0	26.0	27.55		25.35/25.79	25.32/28.42		962	25
1530	26.0	26.0	27.56		25.36/25.80	25.34/28.44		987	23
1600	26.0	26.0	27.56	28.29/28.30	25.36/25.80	25.35/28.45	29.89/29.90	821	17
	Water Level Change (feet)		3.07	1.25	1.17	1.26	4.62		
	Initial FP thickness (feet)		NFP	1.57	0.38	2.49	0.33		
	Final FP thickness (feet)		NFP	0.01	0.44	3.10	0.01		

AFVR EVENT

AFVR EVENT

NOTES:
AFVR event performed on March 30, 2011.
1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NFP - Not free-phase petroleum product present

Prepared By:IAI
Checked By:MLT

TABLE 2A

AFVR Emissions Field Data - March 30, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-6 and MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
3/30/2011	800	27	77	3	56.8	77.0	204	0:00	3.58	220.05	880.20	4	439.19	2.74E-05	0.01	0.01	0.00
3/30/2011	830	27	77	3	76.8	84.6	780	0:30	3.45	841.37	3,365.49	4	1,679.25	1.05E-04	0.02	0.03	0.00
3/30/2011	900	27	116	3	100.0	26.9	1,040	1:00	4.98	1,121.83	4,487.31	4	2,239.00	1.40E-04	0.04	0.05	0.01
3/30/2011	930	27	135	3	126.8	17.5	1,443	1:30	5.53	1,556.54	6,226.15	4	3,106.61	1.94E-04	0.06	0.07	0.01
3/30/2011	1000	27	116	3	133.5	16.4	1,026	2:00	4.70	1,106.73	4,426.91	4	2,208.86	1.38E-04	0.04	0.04	0.01
3/30/2011	1030	27	135	3	136.0	40.2	1,221	2:30	5.44	1,317.07	5,268.28	4	2,628.67	1.64E-04	0.05	0.06	0.01
3/30/2011	1100	27	135	3	133.5	42.0	1,132	3:00	5.47	1,221.07	4,884.27	4	2,437.06	1.52E-04	0.05	0.06	0.01
3/30/2011	1130	27	155	3	139.4	45.3	1,303	3:30	6.21	1,405.52	5,622.09	4	2,805.20	1.75E-04	0.07	0.08	0.01
3/30/2011	1200	27	155	3	139.6	45.2	1,136	4:00	6.21	1,225.38	4,901.53	4	2,445.67	1.53E-04	0.06	0.07	0.01
3/30/2011	1230	27	135	3	134.7	49.2	1,271	4:30	5.45	1,371.00	5,484.02	4	2,736.31	1.71E-04	0.06	0.06	0.01
3/30/2011	1300	27	116	3	135.5	49.9	1,051	5:00	4.68	1,133.69	4,534.78	4	2,262.68	1.41E-04	0.04	0.05	0.01
3/30/2011	1330	27	175	3	136.7	41.9	1,113	5:30	7.05	1,200.57	4,802.29	4	2,396.16	1.50E-04	0.06	0.07	0.01
3/30/2011	1400	27	155	3	138.0	16.6	1,061	6:00	6.23	1,144.48	4,577.92	4	2,284.21	1.43E-04	0.05	0.06	0.01
3/30/2011	1430	27	155	3	140.5	55.2	1,009	6:30	6.20	1,088.39	4,353.56	4	2,172.26	1.36E-04	0.05	0.06	0.01
3/30/2011	1500	27	155	3	141.2	54.0	962	7:00	6.19	1,037.69	4,150.77	4	2,071.07	1.29E-04	0.05	0.06	0.01
3/30/2011	1530	27	155	3	140.7	57.6	987	7:30	6.20	1,064.66	4,258.63	4	2,124.89	1.33E-04	0.05	0.06	0.01
3/30/2011	1600	27	135	3	139.4	60.9	821	8:00	5.41	885.60	3,542.39	4	1,767.52	1.10E-04	0.04	0.04	0.01
Average Values		27	134.2	3	126.4	45.9	1,033		5.47	1,114.21	4,456.86	4	2,223.80	1.39E-04	0.05	0.05	0.01

B_{ws}	0.073	B_{wsw}	0.044

Total Pounds of Carbon Recovered as Emissions: 0.36

Total Pounds of Gasoline Recovered as Emissions: 0.42

Total Gallons of Gasoline Recovered as Emissions: 0.07

NOTES:

AFVR event performed on March 30, 2011.
Vacuum applied to monitoring wells MW-6 and MW-18.
1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wm} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 3

AFVR Gauging Data - April 14, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data							Air Emissions	
	Vacuum Readings (inches of Hg)		Depth to Free Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Time	MW-4	MW-17	MW-4	MW-5	MW-6	MW-15	MW-17		
0750	26.5	26.0	24.03/24.59	24.00	25.23/26.04	23.73/24.24	24.41/25.84	83	--
0820	26.5	26.0	AFVR EVENT	24.01	25.27/26.17	23.77/24.29	AFVR EVENT	233	8
0850	27.0	26.0		24.02	25.30/26.30	23.81/24.34		359	6
0920	27.0	26.0		24.02	25.37/26.41	23.81/24.34		387	6
0950	27.0	26.0		24.02	25.43/26.51	23.81/24.34		390	7
1020	27.0	26.0		24.03	25.47/26.56	23.81/24.33		435	8
1050	27.0	26.0		24.03	25.51/26.60	23.81/24.32		497	10
1120	27.0	26.0		24.03	25.54/26.62	23.81/24.32		490	11
1150	27.0	26.0		24.03	25.57/26.64	23.81/24.32		554	14
1220	27.0	26.0		24.03	25.59/26..67	23.80/24.32		521	10
1250	27.0	26.0		24.02	25.60/26.69	23.79/24.32		483	8
1320	27.0	26.0		24.02	25.62/26.71	23.78/24.31		474	9
1350	27.0	26.0		24.01	25.64/26.73	23.77/24.29		459	7
1420	27.0	26.0		24.01	25.65/26.74	23.77/24.28		484	9
1450	27.0	26.0		24.00	25.66/26.74	23.77/24.28		471	7
1520	27.0	26.0		23.99	25.67/26.74	23.77/24.27		477	8
1550	27.0	26.0	25.04/25.05	23.98	25.67/26.73	23.76/24.25	28.47	497	10
	Water Level Change (feet)		0.46	-0.20	0.69	0.01	2.63		
	Initial FP thickness (feet)		0.56	NFP	0.81	0.51	1.43		
	Final FP thickness (feet)		0.01	NFP	1.06	0.46	NFP		

NOTES:
AFVR event performed on April 14, 2011.
0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water;
positive = drawdown; negative = rise
NFP - No free-phhase petroleum product present

Prepared By:IAI
Checked By:MLT

TABLE 3A

AFVR Emissions Field Data - April 14, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
4/14/2011	750	27.5	77	3	68.1	89.9	83	0:00	3.40	92.34	369.35	4	184.29	1.15E-05	0.00	0.00	0.00
4/14/2011	820	27.5	58	3	81.1	94.7	233	0:30	2.50	259.21	1,036.85	4	517.35	3.23E-05	0.00	0.01	0.00
4/14/2011	850	27.5	58	3	101.4	89.6	359	1:00	2.41	399.39	1,597.55	4	797.12	4.98E-05	0.01	0.01	0.00
4/14/2011	920	27.5	58	3	109.7	85.6	387	1:30	2.37	430.54	1,722.15	4	859.29	5.36E-05	0.01	0.01	0.00
4/14/2011	950	27.5	77	3	110.3	83.7	390	2:00	3.15	433.88	1,735.50	4	865.95	5.41E-05	0.01	0.01	0.00
4/14/2011	1020	27.5	77	3	116.4	88.2	435	2:30	3.11	483.94	1,935.75	4	965.87	6.03E-05	0.01	0.01	0.00
4/14/2011	1050	27.5	77	3	120.2	79.7	497	3:00	3.09	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
4/14/2011	1120	27.5	77	3	121.4	73.5	490	3:30	3.09	545.13	2,180.50	4	1,087.99	6.79E-05	0.01	0.01	0.00
4/14/2011	1150	27.5	58	3	123.4	75.4	554	4:00	2.32	616.33	2,465.30	4	1,230.09	7.68E-05	0.01	0.01	0.00
4/14/2011	1220	27.5	77	3	126.8	71.1	521	4:30	3.06	579.61	2,318.45	4	1,156.82	7.22E-05	0.01	0.02	0.00
4/14/2011	1250	27.5	77	3	127.9	63.0	483	5:00	3.05	537.34	2,149.35	4	1,072.44	6.70E-05	0.01	0.01	0.00
4/14/2011	1320	27.5	77	3	131.5	94.3	474	5:30	3.03	527.33	2,109.30	4	1,052.46	6.57E-05	0.01	0.01	0.00
4/14/2011	1350	27.5	58	3	131.5	67.1	459	6:00	2.28	510.64	2,042.55	4	1,019.15	6.36E-05	0.01	0.01	0.00
4/14/2011	1420	27.5	58	3	132.4	70.9	484	6:30	2.28	538.45	2,153.80	4	1,074.66	6.71E-05	0.01	0.01	0.00
4/14/2011	1450	27.5	77	3	133.3	70.8	471	7:00	3.02	523.99	2,095.95	4	1,045.80	6.53E-05	0.01	0.01	0.00
4/14/2011	1520	27.5	77	3	136.0	67.2	477	7:30	3.01	530.66	2,122.65	4	1,059.12	6.61E-05	0.01	0.01	0.00
4/14/2011	1550	27.5	77	3	136.4	67.0	497	8:00	3.01	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
Average Values		27.5	70.3	3	118.1	78.3	429		2.83	477.33	1,909.31	4	952.67	5.95E-05	0.01	0.01	0.00

B_{ws}	0.101	B_{wsw}	0.061

Total Pounds of Carbon Recovered as Emissions: 0.08

Total Pounds of Gasoline Recovered as Emissions: 0.09

Total Gallons of Gasoline Recovered as Emissions: 0.01

NOTES:

AFVR event performed on April 14, 2011.
Vacuum applied to Monitoring wells MW-4 and MW-17
0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 4

AFVR Gauging Data - April 29, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-3R	MW-3R	MW-13	MW-18		
0745	26.0	23.43	22.86	24.20/24.31	312	--
0815	26.0	AFVR EVENT	22.98	24.19/24.32	1,166	--
0845	26.0		23.10	24.18/24.33	1,302	24
0915	26.0		23.19	24.2324.37	1,295	27
0945	26.0		23.27	24.27/24.41	1205	24
1015	26.0		23.32	24.31/24.45	1110	19
1045	26.0		23.37	24.35/24.48	1070	13
1115	26.0		23.42	24.38/24.51	935	10
1145	26.0		23.46	24.40/24.54	940	10
1215	26.0		23.49	24.42/24.55	369	6
1245	26.0		23.51	24.43/24.56	670	9
1315	26.0		23.52	24.44/24.57	851	10
1345	26.0		23.53	24.44/24.57	777	8
1415	26.0		23.55	24.45/24.59	726	7
1445	26.0		23.57	24.46/24.60	640	7
1515	26.0		23.58	24.47/24.61	611	6
1530	26.0	25.26	23.58	24.47/24.61	585	6
	Water Level Change (feet)	1.83	0.72	0.30		
	Initial FP thickness (feet)	NFP	NFP	0.11		
	Final FP thickness (feet)	NFP	NFP	0.14		

NOTES:
AFVR event performed on April 29, 2011.
0.11 feet of free-phase petroleum was detected in MW-18, prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NFP - No free-phase petroleum product present.

Prepared By:IAI
Checked By:MLT

TABLE 4A

AFVR Emissions Field Data - April 29, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-3R

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
4/29/2011	745	27.5	97	3	61.5	80.3	312	0:00	4.31	349.03	1,396.13	4	696.61	4.35E-05	0.01	0.01	0.00
4/29/2011	815	27.5	77	3	91.4	88.2	1,166	0:30	3.24	1,304.39	5,217.57	4	2,603.37	1.63E-04	0.03	0.04	0.01
4/29/2011	845	27.5	97	3	113.3	69.9	1,302	1:00	3.92	1,456.54	5,826.14	4	2,907.02	1.81E-04	0.04	0.05	0.01
4/29/2011	915	27.5	77	3	116.7	58.1	1,295	1:30	3.09	1,448.70	5,794.82	4	2,891.39	1.81E-04	0.03	0.04	0.01
4/29/2011	945	27.5	118	3	124.3	91.6	1,205	2:00	4.68	1,348.02	5,392.09	4	2,690.44	1.68E-04	0.05	0.05	0.01
4/29/2011	1015	27.5	118	3	127.7	93.2	1,110	2:30	4.65	1,241.75	4,966.99	4	2,478.33	1.55E-04	0.04	0.05	0.01
4/29/2011	1045	27.5	118	3	129.5	67.8	1,070	3:00	4.64	1,197.00	4,788.00	4	2,389.02	1.49E-04	0.04	0.05	0.01
4/29/2011	1115	27.5	118	3	131.0	61.8	935	3:30	4.63	1,045.98	4,183.90	4	2,087.61	1.30E-04	0.04	0.04	0.01
4/29/2011	1145	27.5	135	3	138.9	62.1	940	4:00	5.22	1,051.57	4,206.28	4	2,098.77	1.31E-04	0.04	0.05	0.01
4/29/2011	1215	27.5	118	3	116.2	75.1	369	4:30	4.74	412.80	1,651.19	4	823.88	5.14E-05	0.01	0.02	0.00
4/29/2011	1245	27.5	97	3	123.6	73.1	670	5:00	3.85	749.52	2,998.09	4	1,495.93	9.34E-05	0.02	0.02	0.00
4/29/2011	1315	27.5	118	3	132.0	67.3	851	5:30	4.62	952.01	3,808.02	4	1,900.06	1.19E-04	0.03	0.04	0.01
4/29/2011	1345	27.5	135	3	134.6	64.1	777	6:00	5.26	869.22	3,476.89	4	1,734.83	1.08E-04	0.03	0.04	0.01
4/29/2011	1415	27.5	135	3	140.1	57.8	726	6:30	5.21	812.17	3,248.68	4	1,620.96	1.01E-04	0.03	0.04	0.01
4/29/2011	1445	27.5	155	3	141.2	56.4	640	7:00	5.97	715.96	2,863.85	4	1,428.95	8.92E-05	0.03	0.04	0.01
4/29/2011	1515	27.5	135	3	143.2	55.4	611	7:30	5.19	683.52	2,734.08	4	1,364.20	8.52E-05	0.03	0.03	0.00
4/29/2011	1530	27.5	135	3	144.1	55.1	585	7:45	5.18	654.43	2,617.74	4	1,306.15	8.15E-05	0.03	0.03	0.00
Average Values		27.5	116.6	3	124.1	69.3	857		4.61	958.39	3,833.56	4	1,912.80	1.19E-04	0.03	0.04	0.01
B_{ws}	0.106	B_{wsw}	0.064														

Total Pounds of Carbon Recovered as Emissions: **0.26**

Total Pounds of Gasoline Recovered as Emissions: **0.31**

Total Gallons of Gasoline Recovered as Emissions: **0.05**

NOTES:

AFVR event performed on April 29, 2011.
Vacuum applied to monitoring well MW-3R.
0.11 feet of free-phase petrolcum was detected in MW-18, prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{ww} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 5

AFVR Gauging Data - May 16, 2011

Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data					Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-6	MW-15	MW-17	MW-18		
0815	26	24.38/25.22	22.90/23.31	23.64/24.18	23.80/23.94	840	--
0845	25	AFVR EVENT	22.92/23.35	23.69/24.22	23.88/24.02	1,681	--
0915	25		22.93/23.38	23.73/24.26	23.96/24.10	1,995	28
0945	25		22.95/23.40	23.77/24.30	24.00/24.13	1,930	25
1015	25		22.96/23.42	23.81/24.34	24.03/24.16	1,765	26
1045	25		22.97/23.43	23.84/24.37	24.05/24.18	1,703	31
1115	25		22.97/23.44	23.87/24.40	24.06/24.20	1,690	27
1145	25		22.98/23.45	23.90/24.43	24.07/24.21	1,426	21
1215	25		22.98/23.45	23.92/24.45	24.08/24.22	1,414	20
1245	25		22.98/23.45	23.94/24.46	24.09/24.22	1,358	20
1315	25		22.98/23.45	23.95/24.47	24.09/24.22	1,296	25
1345	25		22.98/23.46	23.96/24.49	24.10/24.23	1,150	18
1415	25		22.98/23.46	23.97/24.50	24.10/24.23	1,150	18
1445	25		22.98/23.45	23.98/24.52	24.11/24.24	1,120	17
1515	25		22.98/23.44	23.99/24.53	24.11/24.25	1,088	15
1545	25		22.98/23.44	24.00/24.53	24.11/24.25	1,061	13
1615	25	26.77/26.78	22.97/23.44	24.00/24.53	24.10/24.25	944	13
	Water Level Change (feet)	1.56	0.13	0.35	0.31		
	Initial FP thickness (feet)	0.84	0.41	0.54	0.14		
	Final FP thickness (feet)	0.01	0.47	0.53	0.15		

NOTES:

AFVR event performed on May 16, 2011.

0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - No free-phase petroleum product present.

Prepared By:IAI
Checked By:MLT

TABLE 5A

AFVR Emissions Field Data - May 16, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-6

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
5/16/2011	815	27	18	3	66.0	88.1	840	0:00	0.81	914.27	3,657.07	4	1,824.74	1.14E-04	0.01	0.01	0.00
5/16/2011	845	27	18	3	80.6	94.3	1,681	0:30	0.79	1,829.62	7,318.49	4	3,651.64	2.28E-04	0.01	0.01	0.00
5/16/2011	915	27	18	3	113.5	70.8	1,995	1:00	0.75	2,171.38	8,685.54	4	4,333.75	2.71E-04	0.01	0.01	0.00
5/16/2011	945	27	18	3	119.8	72.9	1,930	1:30	0.74	2,100.64	8,402.55	4	4,192.55	2.62E-04	0.01	0.01	0.00
5/16/2011	1015	27	18	3	123.4	69.5	1,765	2:00	0.73	1,921.05	7,684.20	4	3,834.12	2.39E-04	0.01	0.01	0.00
5/16/2011	1045	27	36	3	120.3	69.7	1,703	2:30	1.48	1,853.57	7,414.27	4	3,699.43	2.31E-04	0.02	0.02	0.00
5/16/2011	1115	27	18	3	124.5	72.8	1,690	3:00	0.73	1,839.42	7,357.67	4	3,671.19	2.29E-04	0.01	0.01	0.00
5/16/2011	1145	27	58	3	126.1	62.1	1,426	3:30	2.36	1,552.08	6,208.31	4	3,097.71	1.93E-04	0.03	0.03	0.01
5/16/2011	1215	27	38	3	126.6	63.9	1,414	4:00	1.54	1,539.02	6,156.06	4	3,071.64	1.92E-04	0.02	0.02	0.00
5/16/2011	1245	27	58	3	127.7	60.1	1,358	4:30	2.35	1,478.06	5,912.26	4	2,949.99	1.84E-04	0.03	0.03	0.00
5/16/2011	1315	27	38	3	120.7	63.3	1,296	5:00	1.56	1,410.58	5,642.33	4	2,815.31	1.76E-04	0.02	0.02	0.00
5/16/2011	1345	27	58	3	120.3	62.8	1,150	5:30	2.38	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.02	0.03	0.00
5/16/2011	1415	27	38	3	118.7	64.3	1,150	6:00	1.56	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.01	0.02	0.00
5/16/2011	1445	27	58	3	115.8	70.2	1,120	6:30	2.40	1,219.02	4,876.09	4	2,432.98	1.52E-04	0.02	0.03	0.00
5/16/2011	1515	27	38	3	118.2	65.3	1,088	7:00	1.57	1,184.19	4,736.77	4	2,363.47	1.48E-04	0.01	0.02	0.00
5/16/2011	1545	27	38	3	120.3	63.8	1,061	7:30	1.56	1,154.81	4,619.22	4	2,304.81	1.44E-04	0.01	0.02	0.00
5/16/2011	1615	27	38	3	123.2	64.3	944	8:00	1.55	1,027.46	4,109.85	4	2,050.66	1.28E-04	0.01	0.01	0.00
Average Values		27	36	3	115.6	69.3	1,389		1.46	1,511.68	6,046.71	4	3,017.07	1.88E-04	0.02	0.02	0.00

B_{ws}	0.081	B_{wsw}	0.049

Total Pounds of Carbon Recovered as Emissions: 0.13

Total Pounds of Gasoline Recovered as Emissions: 0.15

Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:
AFVR event performed on May 16, 2011.
Vacuum applied to observation wells MW-6.
0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{ww} - lb of water per lb of dry air
B_{wv} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 6

Post AFVR Gauging Data - June 13, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

Well ID	MW-2	MW-3R	MW-4	MW-6	MW-15	MW-17	MW-18
Depth to Free-Product / Groundwater	24.08	23.61	23.35/23.50	24.60/25.37	23.20/23.71	23.85/24.37	24.10/24.21
Free-Product Thickness (ft)	**NFP**	**NFP**	**0.15**	**0.77**	**0.51**	**0.52**	**0.11**

NOTES:
Measurements are in feet below top of casing

Prepared By: IAI
Checked By: MLT

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

UST DOCKET 14tech

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

JUL 20 2011

Re: **QAPP Contractor Addendum Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929
Release #2 reported February 25, 1997
Aggressive Fluid Vapor Recovery Report Received July 15, 2011
Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report.

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The groundwater sampling event should be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations. The groundwater samples should be analyzed for BTEX + Naphth + MtBE, and EDB. A copy of SCDHEC QAPP for the UST Management Division is available at http://www.dhec.sc.gov/environment/lwm/pubs/DHEC%20UST%20QAPP_Rev-1_Feb2011_3.pdf.

Please have your contractor complete and submit the QAPP Contractor Addendum and Cost Agreement within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Department must be issued before work begins.**

On all correspondence concerning this site, please reference **UST Permit # 11929.** If there are any questions concerning this project, please contact me at (803) 896-6323 or by email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615
Technical File

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

OCT 14 2011

Re: **Groundwater Sampling Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA# 42024
Release #2 reported February 25, 1997
Site Specific QAPP Contractor Addendum and Associated Cost Agreement received October 3, 2011
Greenville County

Dear Ms. Mumbauer :

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced addendum submitted on your behalf by Bunnell-Lammons Engineering, Inc. The next appropriate scope of work at the site is comprehensive groundwater sampling event. All work should be conducted in accordance with the UST Quality Assurance Division Plan and must be conducted in compliance with all applicable regulations. A copy of SCDHEC Quality Assurance Program Plan (QAPP) for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/html/ust.htm.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement # 42024 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

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.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding 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 SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, 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 Department 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 #11929. If you have any questions regarding this correspondence, 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, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Signed Site Specific QAPP Contractor Addendum

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (with enc.)
Technical File (with enc.)

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Former Ryder Terminal – UST Permit #11929

10 Woods Lake Road, Greenville, South Carolina

Prepared by: Trevor J. Benton, P.G – Bunnell-Lammons Engineering, Inc.

Date: September 30, 2011

Bunnell-Lammons Engineering, Inc. – SCDHEC Certified Contractor No. UCC-010

Approvals

Stephanie Briney
SC DHEC Project Manager
Signature Date 10/4/11

Trever Z. Slack, P.G.
Contractor QA Manager
Signature Date 9/30/11

Thomas L. Lammons, P.G.
Site Rehabilitation Contractor
Signature Date 9/30/11

Michael Woodrum
Laboratory Director
Signature Date 9/30/11

Approved Cost Agreement 42024

Facility: 11929 FORMER RYDER TERMINAL
BRINEYSM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		C TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB					
		B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION					
		A GROUND WATER	1.0000	55.00	55.00
		D GROUNDWATER NO-PURGE	19.0000	35.00	665.00
		H FIELD BLANK	1.0000	5.00	5.00
11 ANALYSES	GW GROUNDWATER				
		A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22.0000	100.00	2,200.00
		F EDB	22.0000	55.00	1,210.00
17 DISPOSAL					
		A WASTEWATER	25.0000	0.80	20.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	5,260.00	789.00
				Total Amount	6,049.00

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF GROUNDWATER SAMPLING EVENT – NOVEMBER 2011

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST AGREEMENT # 42024

Prepared For:

Ms. Ingrid Auten
c/o Ms. Annie Mumbauer
BB&T Wealth Management
Post Office Box 408
Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-010

January 16, 2012

BLE Project Number J11-1010-17

B L E INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

January 16, 2012

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull Street
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report of Groundwater Sampling Event – November 2011**
Former Ryder Truck Terminal
Greenville, Greenville County
UST Permit #11929; CA #42024
BLE Project No. J11-1010-17

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of comprehensive groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated October 14, 2011. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980s to the late 1990s, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II

Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2011 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. Since the site has not been sampled since 2009, SCDHEC has required a comprehensive sampling event be conducted to assess current geochemical trends on the site.

On November 2, 2011, BLE personnel mobilized to the site to perform a comprehensive groundwater sampling event at the subject site. The results of our activities are provided herein.

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are on-site, and three wells (MW-7, MW-8, and MW-11) are off-site.

Groundwater levels in the monitoring wells were measured on November 2, 2011 (Table 1). A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown on Figure 2.

Groundwater samples were collected from thirteen (MW-1, MW-2, MW-2D, MW-5, MW-7 through MW-14, and MW-16) of the nineteen monitoring wells on November 2, 2011. Monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 were not sampled due to the presence of free-phase product in the wells. The remaining wells were sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tertiary-butyl-ether (MTBE), and 8-oxygenates by EPA Method 8260B and 1,2-dibromoethane (EDB) by EPA Method 8011.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well

development). Therefore, only monitoring well MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix A. The samples were shipped via courier to Shealy Environmental Services, Inc. in West Columbia, South Carolina for analysis (SC Certification #32010). The monitoring well sampling logs are in Appendix A.

Purge water generated during the groundwater sampling event was contained in a 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix C.

LABORATORY RESULTS

Laboratory analyses detected various chemicals of concern (CoC) in monitoring wells MW-2, MW-2D, MW-5, MW-7, MW-12, MW-13, and MW-14. Benzene (MW-2, MW-13, and MW-14), naphthalene (MW-2, MW-13, and MW-14), and EDB (MW-13) were the only dissolved CoCs detected at concentrations exceeding Risk-Based Screening Levels (RBSLs). Additionally, various 8-oxygenate concentrations were detected above the laboratory method detection limit (MDL) in monitoring wells MW-12, MW-13, and MW-14; however, these detections were below established RBSLs. Petroleum free-product was measured in MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 at a thickness of 0.35, 1.32, 2.90, 0.87, 1.65, and 0.56 feet, respectively. CoC concentrations for each well are shown on Figure 3. Historical laboratory data is summarized on Table 2. Laboratory data sheets are provided in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS

During this current assessment, laboratory analyses detected various CoC concentrations in monitoring wells MW-2, MW-13, and MW-14 exceeding established RBSLs. Additionally, petroleum free-product was detected in six on-site monitoring wells (MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18).

Since free-phase petroleum product is still present at moderate thicknesses in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18, we recommend that a series of four additional AFVR events be conducted at the site. After a minimum of 30 days from the last AFVR

event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten, c/o Ms. Annie Mumbauer of BB&T Wealth Management. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey of the SCDHEC Bureau of Land and Waste Management, Financial Section, for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G., CHMM
Principal
Registered, South Carolina #893

TABLES

TABLE 1

Monitoring Well and Groundwater Surface Elevation Data
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #42024
BLE Project No. J11-1010-17

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	Free Product Thickness	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	29.40	NA	27.19	71.30	31.0	21.0 - 31.0	77.5 - 67.5
MW-2	100.10	100.54	26.71	NA	27.15	73.39	30.0	20.0 - 30.0	80.5 - 70.5
MW-2D	99.29	99.76	28.72	NA	29.20	70.57	54.5	49.5 - 54.5	50.3 - 45.3
MW-3	Well abandoned December 5, 2005								
MW-3R*	99.00	99.57	26.41	0.35	26.98	72.59	32.4	22.2 - 32.2	77.4 - 67.4
MW-4*	102.67	102.91	26.28	1.32	26.52	76.39	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	26.05	NA	26.29	75.43	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	27.49	2.90	27.87	74.25	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	28.00	NA	28.30	64.67	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	24.65	NA	24.76	64.11	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	26.65	NA	27.04	75.61	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	26.26	NA	26.26	78.41	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	25.80	NA	26.06	74.86	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	27.56	NA	27.86	73.82	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	25.69	NA	26.02	72.93	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	25.67	NA	26.20	73.63	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	25.78	0.87	25.97	74.61	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	25.86	NA	26.15	76.88	34.4	24.2 - 34.2	78.8 - 68.8
MW-17*	102.09	102.49	26.95	1.65	27.35	75.14	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	26.87	0.56	27.22	73.52	35.6	25.4 - 35.4	75.3 - 65.3

NOTES:
Groundwater levels were measured on November 2, 2011.
Measurements are in feet; elevations are relative to an arbitrary site datum.
* = Groundwater depth data for MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 has been corrected for the presence of free-product thickness using a density of 0.70 g/cc.
btoc = below top of casing
bgs = below ground surface
FP = Free-Product
NA = Not Applicable.

Prepared By: IAI
Checked By: RAD

TABLE 2

Historical Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #42024
BLE Project No. J11-1010-17

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	1400.00	Xylenes (µg/L)	10000	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-1	12/13/96	NA	**20.6**	1.74	2.61	6.4	31.35	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	2.6	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	0.028	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
MW-2	12/13/96	NA	**249**	22.5	43.5	363	678	11.1	**900**	NT	NT
	02/10/98	**0.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**1.92**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**0.23**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	**120**	ND	6.8	170	296.8	ND	**240**	**0.33**	NT
	05/29/07	**0.26**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.02**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	NA	**25.6**	<5.0	<5.0	41.1J	66.7	<5.0	**53.3**	**0.061**	<5.0
	11/02/11	NA	**35.0**	<5.0	<5.0	16.0	51.0	0.59J	**110.0**	<0.019	<5.0
MW-2D	02/10/98	NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	3.7	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND	ND	ND	NT
	11/23/09	NA	1.2J	<5.0	<5.0	<10.0	1.2J	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	2.9J	<5.0	<5.0	<5.0	2.9J	0.68J	3.2J	<0.019	<5.0
MW-3	02/10/98	NA	**62.5**	6.4	19.3	193	281.2	ND	**106**	ND	NT
	03/29/99	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**0.12**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	Monitoring Well Abandoned									
MW-14 (DUP)	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND		
MW-3R	02/24/06	NA	**40.0**	ND	ND	81.0	121	ND	**120**	**0.90**	NT
	05/29/07	NA	**48.0**	ND	ND	109.0	157	ND	**140**	**0.51**	NT
	09/09/08	**e to 0.87 feet of**	**23.2**	ND	ND	17.7	40.9	ND	**63.2**	**0.44**	ND
	02/23/09	**0.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.35**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NA	2.2	ND	1.73	150	153.93	ND	**186**	ND	NT
	03/29/99	NA	ND	ND	ND	10.6	10.6	ND	**26.2**	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND	**49.6**	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	**0.96**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
	11/23/09	**0.47**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**1.32**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	02/10/98	NA	**16.5**	ND	ND	6.83	23.33	ND	**33.3**	ND	NT
	03/29/99	NA	ND	ND	1.13	6.26	7.39	ND	**50.2**	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	**25.2**	11.5	5.10	32.4	74.2	ND	5.0	NT	NT
	02/02/04	NA	**23.1**	4.0	2.0	8.7	37.8	ND	ND	NT	NT
	01/20/05	NA	**11.0**	ND	ND	ND	11.0	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.0	5.9	2.8	7.8	17.5	ND	9.7	ND	NT
	11/23/09	NA	<5.0	<5.0	1.8J	<10.0	1.8J	<5.0	<5.0	<0.019	<5.0
	11/02/11	NA	0.32J	2.3J	2.4J	3.6J	8.6J	<5.0	<5.0	<0.020	<5.0
MW-6	02/10/98	NA	**523.0**	**1,670**	104	434	2,731	**92.7**	**409**	ND	NT
	03/29/99	**1.83**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**2.19**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**1.72**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	**1.54**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	**0.63**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.42**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
	11/23/09	**3.10**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**2.90**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	**12.9**	ND	ND	11.6	24.5	6.8	20.1	NT	NT
	01/28/03	NA	**6.2**	ND	ND	4.0	10.2	3.2	6.0	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	3.8	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	**34.0**	ND	ND	40.6	74.6	2.8	**89.9**	**0.23**	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.019	<5.0
	11/02/11	NA	0.22J	<5.0	<5.0	<5.0	0.22J	<5.0	<5.0	0.023	<5.0

Prepared By: IAI
Checked By: RAD

TABLE 2

Historical Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #42024
BLE Project No. J11-1010-17

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	1400.00	Xylenes (µg/L)	10000	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-8	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
MW-9	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
MW-10	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	5.4J	5.4J	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
MW-12	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09	Dry									
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	14.0	<5.0	<0.02	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	18.0	<5.0	<0.019	<5.0
MW-13	02/24/06	NA	**100**	ND	ND	110	210	ND	**100**	**0.76**	NT
	05/29/07	NA	**160**	ND	ND	199	359	ND	**170**	**0.62**	NT
	09/09/08	NA	**77**	ND	ND	101	178	ND	**226**	**0.162**	ND
	02/23/09	NA	**23.5**	ND	ND	46.2	69.7	ND	**68.1**	**0.18**	NT
	11/23/09	NA	**23.6**	<5.0	<5.0	69.4	93.0	<5.0	**58.4**	**0.46**	<5.0
	11/02/11	NA	**34**	<5.0	<5.0	82.0	116.0	1.7J	**130**	**0.30**	<5.0
MW-14	02/24/06	NA	**160**	34.0	480	620	1,294	ND	**160**	**0.46**	NT
	05/29/07	NA	**220**	ND	550	700	1,470	ND	**250**	**0.26**	NT
	09/09/08	NA	**82.4**	3.81	54.8	67.1	208.11	ND	**75**	**0.118**	ND
	02/23/09	NA	**175**	9.9	303	119.8	607.7	1.9	**194**	**0.20**	NT
	11/23/09	NA	**150**	10.5	263	93.8J	517.3	<10.0	**81.5**	**0.084**	<10.0
	11/02/11	NA	**36**	2.0J	65	4.3J	107.3J	<5.0	**29**	0.013J	<5.0
MW-14 (DUP)	11/02/11	NA	**200**	12.0	510.0	40.0	762	0.53J	**140**	0.031	<5.0
MW-15	02/24/06	NA	**100**	8.0	25.0	160	293	ND	**140**	**0.54**	NT
	05/29/07	NA	**190**	12.0	21	240	463	ND	**390**	**0.45**	NT
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.13**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.90**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.87**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/24/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
MW-17	02/23/09	**0.79**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**2.31**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**1.65**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	**0.45**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.11**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.56**	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Blank	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
Trip Blank	11/02/11	NA	0.20J	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSLs
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: RAD

TABLE 3

Historical Laboratory Analytical Results
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #42024
BLE Project No. J11-1010-17

Boring ID #	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
MW-1	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-2	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-2D	02/23/09	NT	70.5	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-3	02/23/06	Well Abandoned							
MW-3R	02/23/09	Well not sampled due to 0.60 feet of free product present							
	11/23/09	Well not sampled due to 0.04 feet of free product present							
	11/02/11	Well not sampled due to 0.35 feet of free product present							
MW-4	02/23/09	Dry							
	11/23/09	Well not sampled due to 0.47 feet of free product present							
	11/02/11	Well not sampled due to 1.32 feet of free product present							
MW-5	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-6	02/23/09	Dry							
	11/23/09	Well not sampled due to 3.10 feet of free product present							
	11/02/11	Well not sampled due to 2.90 feet of free product present							
MW-7	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-8	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-9	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-10	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-11	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-12	02/23/09	Dry							
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	0.67J	<20.0	<5.0	<20.0	<5.0	46J	<1.0	<20.0
MW-13	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/24/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	9.1J	<5.0	11J	<5.0	<100	<1.0	<20.0
MW-14	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<20.0	<200	<100	<200	<10.0	<400	<20.0	<200
	11/02/11	<10.0	<20.0	<5.0	22	<5.0	<100	<1.0	<20.0
MW-14 (DUP)	11/02/11	<10.0	72	<5.0	21	<5.0	<100	<1.0	<20.0
MW-15	02/23/09	Well not sampled due to 0.13 feet of free product present							
	11/23/09	Well not sampled due to 0.90 feet of free product present							
	11/02/11	Well not sampled due to 0.87 feet of free product present							
MW-16	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
MW-17	02/23/09	Well not sampled due to 0.79 feet of free product present							
	11/23/09	Well not sampled due to 2.31 feet of free product present							
	11/02/11	Well not sampled due to 1.65 feet of free product present							
MW-18	02/23/09	Well not sampled due to 0.45 feet of free product present							
	11/23/09	Well not sampled due to 0.11 feet of free product present							
	11/02/11	Well not sampled due to 0.56 feet of free product present							
Field Blank	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0
Trip Blank	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0

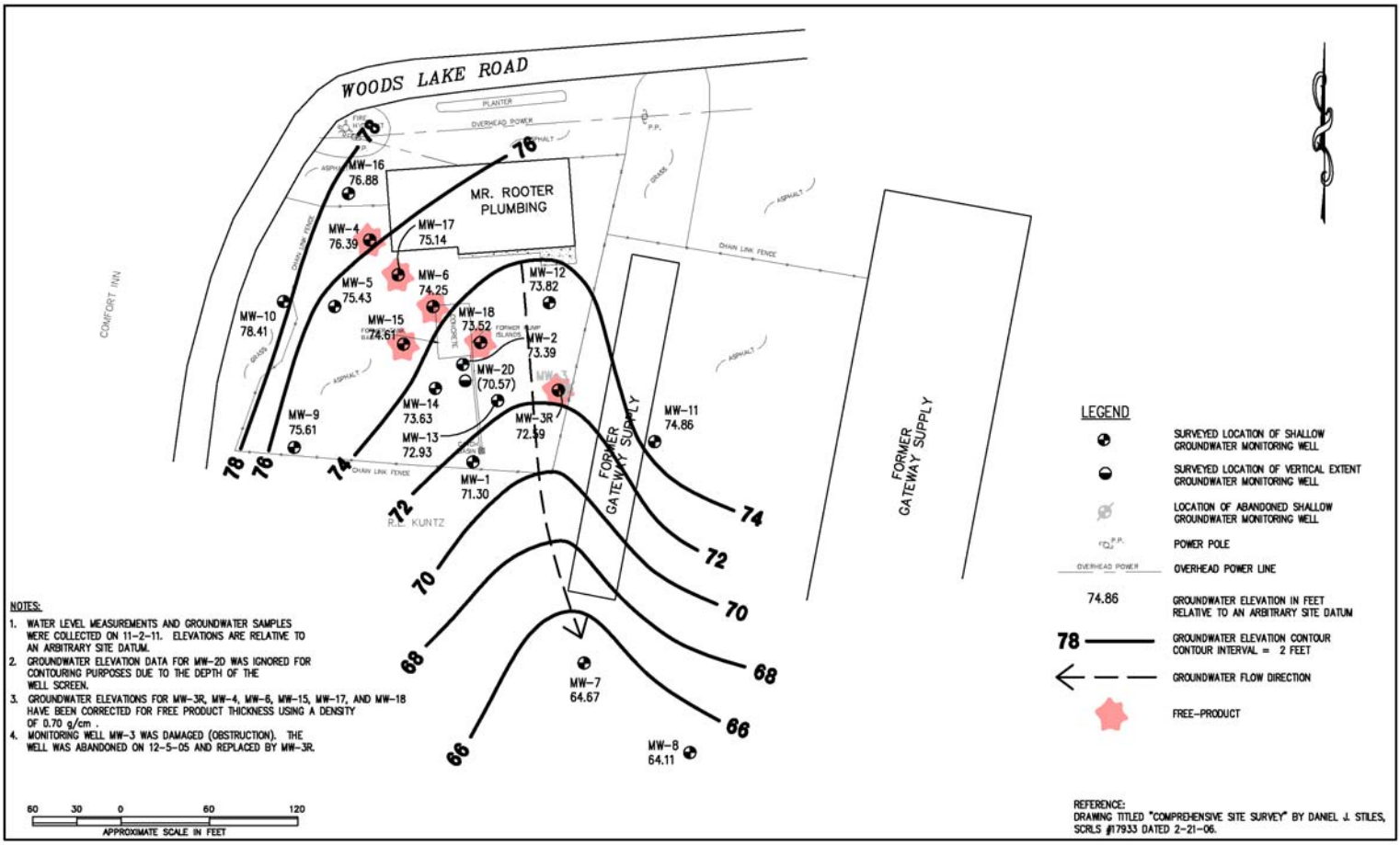
Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold and shaded cells indicate concentrations above RBSLs
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: RAD

FIGURES

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 09-20-11	BLE INC. BUNDELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: TJB	CAD: FORMERRTT-17SLM		FIGURE 1
APPROVED:	JOB NO: J11-1010-17		



NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 11-2-11. ELEVATIONS ARE RELATIVE TO AN ARBITRARY SITE DATUM.
2. GROUNDWATER ELEVATION DATA FOR MW-2D WAS IGNORED FOR CONTOURING PURPOSES DUE TO THE DEPTH OF THE WELL SCREEN.
3. GROUNDWATER ELEVATIONS FOR MW-3R, MW-4, MW-6, MW-15, MW-17, AND MW-18 HAVE BEEN CORRECTED FOR FREE PRODUCT THICKNESS USING A DENSITY OF 0.70 g/cm .
4. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

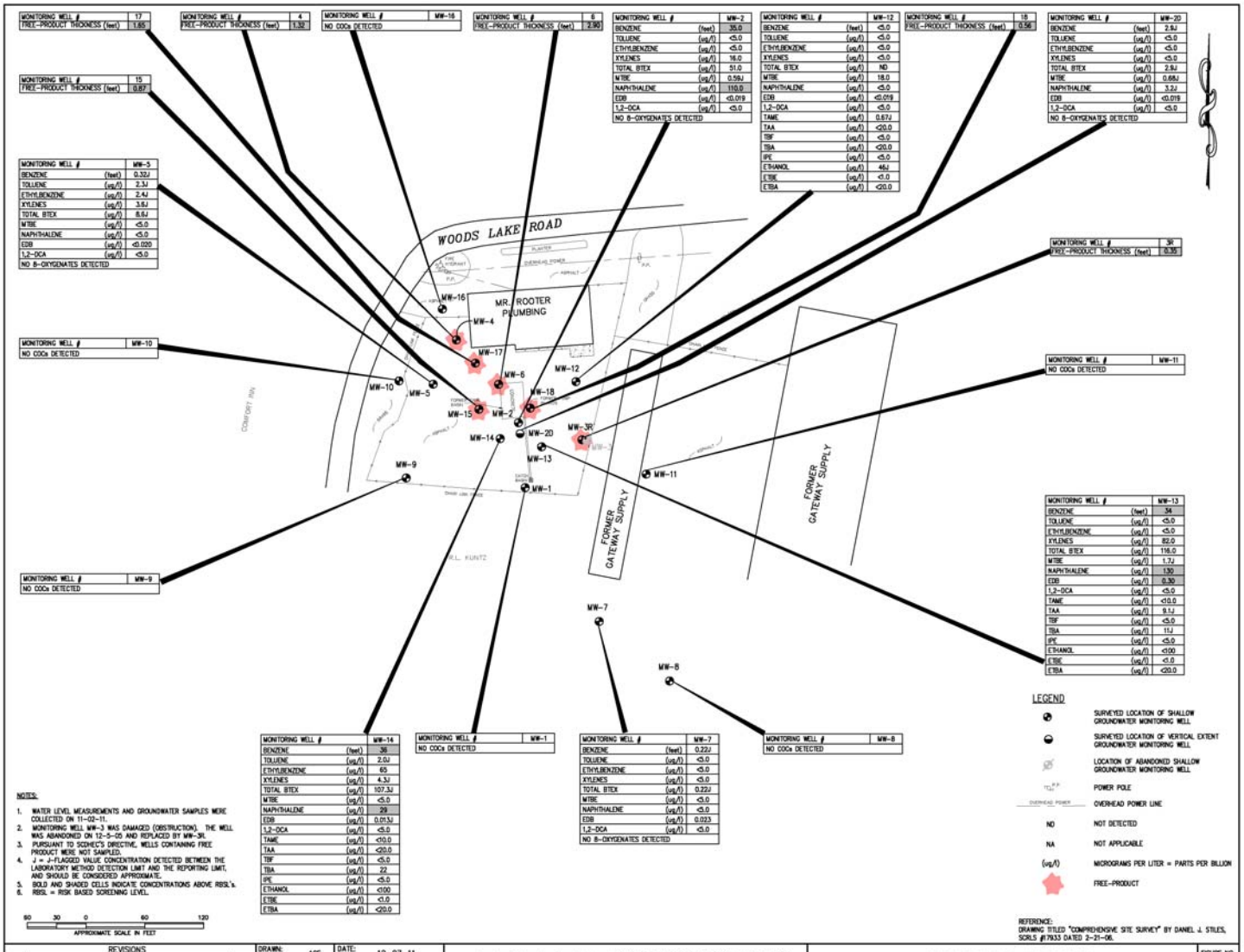
DRAWN BY:	ACE	DATE:	09-20-11
CHECKED BY:	IAI	FILE:	FORMERRTT-17WTM
APPROVED BY:		JOB NO:	J11-1010-17

REVISIONS		
No.	DESCRIPTION	BY

BLE INC. BUSSELL-LANNING ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP – NOVEMBER 2, 2011
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 2



MONITORING WELL #	17
FREE-PRODUCT THICKNESS (feet)	1.65

MONITORING WELL #	4
FREE-PRODUCT THICKNESS (feet)	1.32

MONITORING WELL #	MW-16
NO COCs DETECTED	

MONITORING WELL #	6
FREE-PRODUCT THICKNESS (feet)	2.90

MONITORING WELL #		MW-2
BENZENE	(feet)	35.0
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	16.0
TOTAL BTEX	(ug/l)	51.0
MTBE	(ug/l)	0.59J
NAPHTHALENE	(ug/l)	110.0
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<5.0
NO 8-OXYGENATES DETECTED		

MONITORING WELL #		MW-12
BENZENE	(feet)	<5.0
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	<5.0
TOTAL BTEX	(ug/l)	ND
MTBE	(ug/l)	18.0
NAPHTHALENE	(ug/l)	<5.0
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<5.0
TAME	(ug/l)	0.67J
TAA	(ug/l)	<20.0
TBF	(ug/l)	<5.0
TBA	(ug/l)	<20.0
IPE	(ug/l)	<5.0
ETHANOL	(ug/l)	46J
ETBE	(ug/l)	<1.0
ETBA	(ug/l)	<20.0

MONITORING WELL #	18
FREE-PRODUCT THICKNESS (feet)	0.56

MONITORING WELL #		MW-20
BENZENE	(feet)	2.9J
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	<5.0
TOTAL BTEX	(ug/l)	2.9J
MTBE	(ug/l)	0.68J
NAPHTHALENE	(ug/l)	3.2J
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<5.0
NO 8-OXYGENATES DETECTED		

MONITORING WELL #	15
FREE-PRODUCT THICKNESS (feet)	0.87

MONITORING WELL #		MW-5
BENZENE	(feet)	0.32J
TOLUENE	(ug/l)	2.3J
ETHYLBENZENE	(ug/l)	2.4J
XYLENES	(ug/l)	3.8J
TOTAL BTEX	(ug/l)	8.6J
MTBE	(ug/l)	<5.0
NAPHTHALENE	(ug/l)	<5.0
EDB	(ug/l)	<0.020
1,2-DCA	(ug/l)	<5.0
NO 8-OXYGENATES DETECTED		

MONITORING WELL #	3R
FREE-PRODUCT THICKNESS (feet)	0.35

MONITORING WELL #	MW-10
NO COCs DETECTED	

MONITORING WELL #	MW-11
NO COCs DETECTED	

MONITORING WELL #		MW-13
BENZENE	(feet)	34
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	82.0
TOTAL BTEX	(ug/l)	116.0
MTBE	(ug/l)	1.7J
NAPHTHALENE	(ug/l)	130
EDB	(ug/l)	0.30
1,2-DCA	(ug/l)	<5.0
TAME	(ug/l)	<10.0
TAA	(ug/l)	9.1J
TBF	(ug/l)	<5.0
TBA	(ug/l)	11J
IPE	(ug/l)	<5.0
ETHANOL	(ug/l)	<100
ETBE	(ug/l)	<1.0
ETBA	(ug/l)	<20.0

MONITORING WELL #	MW-9
NO COCs DETECTED	

MONITORING WELL #		MW-14
BENZENE	(feet)	36
TOLUENE	(ug/l)	2.0J
ETHYLBENZENE	(ug/l)	65
XYLENES	(ug/l)	4.3J
TOTAL BTEX	(ug/l)	107.3J
MTBE	(ug/l)	<5.0
NAPHTHALENE	(ug/l)	29
EDB	(ug/l)	0.013J
1,2-DCA	(ug/l)	<5.0
TAME	(ug/l)	<10.0
TAA	(ug/l)	<20.0
TBF	(ug/l)	<5.0
TBA	(ug/l)	22
IPE	(ug/l)	<5.0
ETHANOL	(ug/l)	<100
ETBE	(ug/l)	<1.0
ETBA	(ug/l)	<20.0

MONITORING WELL #	MW-1
NO COCs DETECTED	

MONITORING WELL #		MW-7
BENZENE	(feet)	0.22J
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	<5.0
TOTAL BTEX	(ug/l)	0.22J
MTBE	(ug/l)	<5.0
NAPHTHALENE	(ug/l)	<5.0
EDB	(ug/l)	0.023
1,2-DCA	(ug/l)	<5.0
NO 8-OXYGENATES DETECTED		

MONITORING WELL #	MW-8
NO COCs DETECTED	

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- POWER POLE
- OVERHEAD POWER LINE
- ND NOT DETECTED
- NA NOT APPLICABLE
- (ug/l) MICROGRAMS PER LITER = PARTS PER BILLION
- FREE-PRODUCT

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 11-02-11.
2. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.
3. PURSUANT TO SCDHEC'S DIRECTIVE, WELLS CONTAINING FREE PRODUCT WERE NOT SAMPLED.
4. J = J-FLAGGED VALUE CONCENTRATION DETECTED BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE REPORTING LIMIT, AND SHOULD BE CONSIDERED APPROXIMATE.
5. BOLD AND SHADED CELLS INDICATE CONCENTRATIONS ABOVE RBSL's.
6. RBSL = RISK BASED SCREENING LEVEL.

60 30 0 60 120
APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

REVISIONS			DRAWN: ACE	DATE: 12-07-11
No.	DESCRIPTION	BY	CHECKED: IAI	CAD FILE: FORMERRTT-17GWCOC
			APPROVED:	JOB NO: J11-1010-17

BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC MAP – NOVEMBER 2, 2011
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE NO. 3

APPENDICES

APPENDIX A

MONITORING WELL SAMPLING PROCEDURES AND SAMPLING LOGS

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged only if the well screen did not bracket the water table. Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon® lined lids and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and delivered via courier to Shealy Environmental Services in West Columbia, South Carolina for analysis.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-1

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	29.40	ft
Length of Water Colum (LWC = TWD-DGW)	1.60	ft
1 Casing Volume (LWC*C) = 1.60 X .17 =	0.27	gals
3 Casing Volumes = 3 X 0.27 =	0.82	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1100							
pH (s.u)	5.05							
Specific Conductivity	65.5							
Water Temperature (°C)	17.2							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	2.9							

Remarks: Well sampled at 1100 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-2

Well Diameter (D) 2 inch of 30.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.00	ft
Depth to Groundwater (DGW)	26.71	ft
Length of Water Colum (LWC = TWD-DGW)	3.29	ft
1 Casing Volume (LWC*C) = 3.29 X .17 =	0.56	gals
3 Casing Volumes = 3 X 0.56 = (Standard Purge Volume)	4.98	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1108							
pH (s.u)	5.10							
Specific Conductivity	77.7							
Water Temperature (°C)	18.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	3.8							

Remarks: Well sampled at 1108 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	54.50	ft
Depth to Groundwater (DGW)	28.72	ft
Length of Water Colum (LWC = TWD-DGW)	25.78	ft
1 Casing Volume (LWC*C) = 25.78 X .17 =	4.38	gals
3 Casing Volumes = 3 X 4.38 = (Standard Purge Volume)	13.15	gals

Total Volume of Water Purged Before Sampling: 13.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	4.5	9.0	13.5				
Time (military)	1150	1159	1207	1218				
pH (s.u)	5.47	5.82	5.92	5.86				
Specific Conductivity	120.6	126.7	115.2	110.2				
Water Temperature (°C)	19.5	18.9	18.9	18.3				
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Oxygen (mg/l)	4.9							

Remarks: Well sampled at 1218 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011

Field Personnel: Ivan A. Irizarry

General weather Conditions: Sunny

Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
Serial No.		Serial No.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Well # MW-3R

Well Diameter (D) 2 inch of 32.40 feet(ft)

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness	0.35	ft			
Total Well Depth (TWD)	32.40	ft			
Depth to Groundwater (DGW)	26.65	ft			
Length of Water Colum (LWC = TWD-DGW)				NA	ft
1 Casing Volume (LWC*C) =	NA	X	.17 =	NA	gals
3 Casing Volumes = 3 X	NA	=		NA	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.35 feet of free-phase petroleum product present.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
Serial No.		Serial No.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 1.32 ft
Total Well Depth (TWD) 29.50 ft
Depth to Groundwater (DGW) 27.20 ft
Length of Water Colum (LWC = TWD-DGW) NA ft
1 Casing Volume (LWC*C) = NA X .17 = NA gals
3 Casing Volumes = 3 X NA = NA gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: WII not sampled due to 1.32 feet of free-phase petroleum product present.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-5

Well Diameter (D) 2 inch of 29.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness NA ft
Total Well Depth (TWD) 29.00 ft
Depth to Groundwater (DGW) 26.05 ft
Length of Water Colum (LWC = TWD-DGW) 2.95 ft
1 Casing Volume (LWC*C) = 2.95 X .17 = 0.50 gals
3 Casing Volumes = 3 X 0.50 = 1.50 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1118							
pH (s.u)	5.24							
Specific Conductivity	138.2							
Water Temperature (°C)	19.2							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	3.4							

Remarks: Well sampled at 1118 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
Serial No.		Serial No.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	2.90	ft
Total Well Depth (TWD)	29.50	ft
Depth to Groundwater (DGW)	29.52	ft
Length of Water Colum (LWC = TWD-DGW)	NA	ft
1 Casing Volume (LWC*C) = NA X .17 =	NA	gals
3 Casing Volumes = 3 X NA = (Standard Purge Volume)	NA	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 2.90 feet of free-phase petroleum product present.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-7

Well Diameter (D) 2 inch of 32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	32.80	ft
Depth to Groundwater (DGW)	28.00	ft
Length of Water Colum (LWC = TWD-DGW)		4.80 ft
1 Casing Volume (LWC*C) =	4.80 X .17 =	0.82 gals
3 Casing Volumes = 3 X	0.82 =	2.46 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	0900							
pH (s.u)	5.12							
Specific Conductivity	41.3							
Water Temperature (°C)	18.6							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	3.6							

Remarks: Well sampled at 900 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.80	ft
Depth to Groundwater (DGW)	24.65	ft
Length of Water Colum (LWC = TWD-DGW)	5.15	ft
1 Casing Volume (LWC*C) = 5.15 X .17 =	0.88	gals
3 Casing Volumes = 3 X 0.88 = (Standard Purge Volume)	2.64	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	0849							
pH (s.u)	5.50							
Specific Conductivity	57.4							
Water Temperature (°C)	20.0							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	4.3							

Remarks: Well sampled at 0849 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.70	ft
Depth to Groundwater (DGW)	26.65	ft
Length of Water Colum (LWC = TWD-DGW)	4.05	ft
1 Casing Volume (LWC*C) = 4.05 X .17 =	0.69	gals
3 Casing Volumes = 3 X 0.69 =	2.07	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1128							
pH (s.u)	5.25							
Specific Conductivity	38.9							
Water Temperature (°C)	18.1							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.4							

Remarks: Well sampled at 1128 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-10

Well Diameter (D) 2 inch of 30.10 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.10	ft
Depth to Groundwater (DGW)	26.26	ft
Length of Water Colum (LWC = TWD-DGW)	3.84	ft
1 Casing Volume (LWC*C) = 3.84 X .17 =	0.65	gals
3 Casing Volumes = 3 X 0.65 = (Standard Purge Volume)	1.95	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	0936							
pH (s.u)	4.51							
Specific Conductivity	41.2							
Water Temperature (°C)	18.1							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	5.5							

Remarks: Well sampled at 0936 on november 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	25.8	ft
Length of Water Colum (LWC = TWD-DGW)	5.20	ft
1 Casing Volume (LWC*C) = 5.20 X .17 =	0.88	gals
3 Casing Volumes = 3 X 0.88 = (Standard Purge Volume)	2.64	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	0915							
pH (s.u)	4.46							
Specific Conductivity	392.0							
Water Temperature (°C)	19.0							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	3.9							

Remarks: Well sampled at 0915 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-12

Well Diameter (D) 2 inch of 30.90 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.90	ft
Depth to Groundwater (DGW)	27.56	ft
Length of Water Colum (LWC = TWD-DGW)	3.34	ft
1 Casing Volume (LWC*C) = 3.34 X .17 =	0.57	gals
3 Casing Volumes = 3 X 0.57 = (Standard Purge Volume)	1.71	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1138							
pH (s.u)	4.68							
Specific Conductivity	88.2							
Water Temperature (°C)	18.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	3.0							

Remarks: Well sampled at 1138 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-13

Well Diameter (D) 2 inch of 33.20 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	33.20	ft
Depth to Groundwater (DGW)	25.69	ft
Length of Water Colum (LWC = TWD-DGW)	7.51	ft
1 Casing Volume (LWC*C) = 7.51 X .17 =	1.28	gals
3 Casing Volumes = 3 X 1.28 =	3.84	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1148							
pH (s.u)	5.03							
Specific Conductivity	126.0							
Water Temperature (°C)	18.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.6							

Remarks: Well sampled at 1148 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-14

Well Diameter (D) 2 inch of 32.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness NA ft
Total Well Depth (TWD) 32.00 ft
Depth to Groundwater (DGW) 25.67 ft
Length of Water Colum (LWC = TWD-DGW) 6.33 ft
1 Casing Volume (LWC*C) = 6.33 X .17 = 1.08 gals
3 Casing Volumes = 3 X 1.08 = 3.24 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	1045							
pH (s.u)	4.86							
Specific Conductivity	48.6							
Water Temperature (°C)	16.6							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	4.7							

Remarks: Well sampled at 1045 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
Serial No.		Serial No.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D) 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.87	ft			
Total Well Depth (TWD)	33.50	ft			
Depth to Groundwater (DGW)	26.39	ft			
Length of Water Colum (LWC = TWD-DGW)				NA	ft
1 Casing Volume (LWC*C) =	NA	X .17	=	NA	gals
3 Casing Volumes = 3 X	NA	=		NA	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.87 feet of free-phase petroleum product detected.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
Serial No.	324976	Serial No.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314

Well # MW-16

Well Diameter (D) 2 inch of 34.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness NA ft
Total Well Depth (TWD) 34.40 ft
Depth to Groundwater (DGW) 25.86 ft
Length of Water Colum (LWC = TWD-DGW) 8.54 ft
1 Casing Volume (LWC*C) = 8.54 X .17 = 1.45 gals
3 Casing Volumes = 3 X 1.45 = 4.35 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)	0950							
pH (s.u)	4.35							
Specific Conductivity	935.0							
Water Temperature (°C)	19.0							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	3.1							

Remarks: Well sampled at 0950 on November 2, 2011.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
Serial No.		Serial No.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	1.65	ft			
Total Well Depth (TWD)	35.00	ft			
Depth to Groundwater (DGW)	28.10	ft			
Length of Water Colum (LWC = TWD-DGW)				NA	ft
1 Casing Volume (LWC*C) =	NA	X .17	=	NA	gals
3 Casing Volumes = 3 X	NA	=		NA	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 1.65 feet of free-phase petroleum product present.

BLE

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 2, 2011
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny
Ambient Air Temperature (°F): 66

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
Serial No.		Serial No.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter (D) 2 inch of 35.60 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.56	ft			
Total Well Depth (TWD)	35.60	ft			
Depth to Groundwater (DGW)	27.26	ft			
Length of Water Colum (LWC = TWD-DGW)				NA	ft
1 Casing Volume (LWC*C) =	NA	X .17	=	NA	gals
3 Casing Volumes = 3 X	NA	=		NA	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.56 feet of free-phase petroleum product present.

APPENDIX B

LABORATORY RESULT DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: **Former Ryder Terminal**

Project Number: **1010-17**

Lot Number: **MK02081**

Date Completed: **11/10/2011**

Lucas Odom
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Bunnell-Lammons Engineering, Inc.
Lot Number: MK02081

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Shealy is not NELAC certified for Phosphorus by 365.1 but is certified in SC and NC.

Shealy is not NELAC certified for VPH, but is certified for VPH in NC.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

EDB by Microextraction

The results associated with samples -006, -012, and -013 have a P qualifier for EDB because the relative percent difference (RPD) between the two dissimilar phase GC columns exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to the disparity of the two results, it is likely that the reported result is biased high, or may be a false positive.

Sample Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: MK02081

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	11/02/2011 1100	11/02/2011
002	MW-2	Aqueous	11/02/2011 1108	11/02/2011
003	MW-2D	Aqueous	11/02/2011 1218	11/02/2011
004	MW-5	Aqueous	11/02/2011 1118	11/02/2011
005	MW-9	Aqueous	11/02/2011 1128	11/02/2011
006	MW-7	Aqueous	11/02/2011 0900	11/02/2011
007	MW-8	Aqueous	11/02/2011 0849	11/02/2011
008	MW-10	Aqueous	11/02/2011 0936	11/02/2011
009	MW-11	Aqueous	11/02/2011 0915	11/02/2011
010	MW-12	Aqueous	11/02/2011 1138	11/02/2011
011	MW-13	Aqueous	11/02/2011 1148	11/02/2011
012	MW-14	Aqueous	11/02/2011 1045	11/02/2011
013	MW-14 (DUP)	Aqueous	11/02/2011 1047	11/02/2011
014	MW-16	Aqueous	11/02/2011 0950	11/02/2011
015	FIELD BLANK	Aqueous	11/02/2011 0840	11/02/2011
016	TRIP BLANK	Aqueous	11/02/2011	11/02/2011

(16 samples)

Executive Summary
Bunnell-Lammons Engineering, Inc.
Lot Number: MK02081

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-2	Aqueous	Benzene	8260B	35		ug/L	7
002	MW-2	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.59	J	ug/L	7
002	MW-2	Aqueous	Naphthalene	8260B	110		ug/L	7
002	MW-2	Aqueous	Xylenes (total)	8260B	16		ug/L	7
003	MW-2D	Aqueous	Benzene	8260B	2.9	J	ug/L	9
003	MW-2D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.68	J	ug/L	9
003	MW-2D	Aqueous	Naphthalene	8260B	3.2	J	ug/L	9
004	MW-5	Aqueous	Benzene	8260B	0.32	J	ug/L	11
004	MW-5	Aqueous	Ethylbenzene	8260B	2.4	J	ug/L	11
004	MW-5	Aqueous	Toluene	8260B	2.3	J	ug/L	11
004	MW-5	Aqueous	Xylenes (total)	8260B	3.6	J	ug/L	11
006	MW-7	Aqueous	Benzene	8260B	0.22	J	ug/L	15
006	MW-7	Aqueous	1,2-Dibromoethane (EDB)	8011	0.023	P	ug/L	16
010	MW-12	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	18		ug/L	23
010	MW-12	Aqueous	Ethanol	8260B	46	J	ug/L	23
010	MW-12	Aqueous	tert-Amyl methyl ether (TAME)	8260B	0.67	J	ug/L	23
011	MW-13	Aqueous	Benzene	8260B	34		ug/L	25
011	MW-13	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	1.7	J	ug/L	25
011	MW-13	Aqueous	Naphthalene	8260B	130		ug/L	25
011	MW-13	Aqueous	Xylenes (total)	8260B	82		ug/L	25
011	MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	9.1	J	ug/L	25
011	MW-13	Aqueous	tert-butyl alcohol (TBA)	8260B	11	J	ug/L	25
011	MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.30		ug/L	26
012	MW-14	Aqueous	Benzene	8260B	36		ug/L	27
012	MW-14	Aqueous	Ethylbenzene	8260B	65		ug/L	27
012	MW-14	Aqueous	Naphthalene	8260B	29		ug/L	27
012	MW-14	Aqueous	Toluene	8260B	2.0	J	ug/L	27
012	MW-14	Aqueous	Xylenes (total)	8260B	4.3	J	ug/L	27
012	MW-14	Aqueous	tert-butyl alcohol (TBA)	8260B	22		ug/L	27
012	MW-14	Aqueous	1,2-Dibromoethane (EDB)	8011	0.013	JP	ug/L	28
013	MW-14 (DUP)	Aqueous	Benzene	8260B	200		ug/L	29
013	MW-14 (DUP)	Aqueous	Ethylbenzene	8260B	510		ug/L	29
013	MW-14 (DUP)	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.53	J	ug/L	29
013	MW-14 (DUP)	Aqueous	Naphthalene	8260B	140		ug/L	29
013	MW-14 (DUP)	Aqueous	Toluene	8260B	12		ug/L	29
013	MW-14 (DUP)	Aqueous	Xylenes (total)	8260B	40		ug/L	29
013	MW-14 (DUP)	Aqueous	tert-Amyl alcohol (TAA)	8260B	72		ug/L	29
013	MW-14 (DUP)	Aqueous	tert-butyl alcohol (TBA)	8260B	21		ug/L	29
013	MW-14 (DUP)	Aqueous	1,2-Dibromoethane (EDB)	8011	0.031	P	ug/L	30
016	TRIP BLANK	Aqueous	Benzene	8260B	0.20	J	ug/L	35

(40 detections)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-1**
Date Sampled: **11/02/2011 1100**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0249	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0249	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0808	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-1**
Date Sampled: **11/02/2011 1100**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-001**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0808	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0061	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		123	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-2**
Date Sampled: **11/02/2011 1108**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0310	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**35**		**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**0.59**	**J**	**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**110**		**5.0**	**1.7**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**16**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0310	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0829	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-2**
Date Sampled: **11/02/2011 1108**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-002**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0829	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0060	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-2D**
Date Sampled: **11/02/2011 1218**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-003**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0332	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**2.9**	**J**	**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**0.68**	**J**	**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**3.2**	**J**	**5.0**	**1.7**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0332	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0851	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-2D**
Date Sampled: **11/02/2011 1218**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-003**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0851	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0059	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-5**
Date Sampled: **11/02/2011 1118**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0352	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.32**	**J**	**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2.4**	**J**	**5.0**	**1.7**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	**108-88-3**	**8260B**	**2.3**	**J**	**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**3.6**	**J**	**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0352	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0912	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-5**
Date Sampled: **11/02/2011 1118**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-004**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 0912	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0061	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		119	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-9**
Date Sampled: **11/02/2011 1128**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0413	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0413	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1016	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-9**
Date Sampled: **11/02/2011 1128**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-005**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1016	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0060	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-7**
Date Sampled: **11/02/2011 0900**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0434	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.22**	**J**	**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0434	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1038	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-7**
Date Sampled: **11/02/2011 0900**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-006**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1038	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.023**	**P**	**0.020**	**0.0061**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		126	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-8**
Date Sampled: **11/02/2011 0849**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-007**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0455	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/05/2011 0455	JJG		71160

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1059	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-8**
Date Sampled: **11/02/2011 0849**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-007**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1059	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0060	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-10**
Date Sampled: **11/02/2011 0936**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-008**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1012	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		103	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1012	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1121	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-10**
Date Sampled: **11/02/2011 0936**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-008**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1121	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0061	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-11**
Date Sampled: **11/02/2011 0915**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-009**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1032	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		103	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1032	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		114	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1142	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-11**
Date Sampled: **11/02/2011 0915**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-009**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1142	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0062	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		134	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-12**
Date Sampled: **11/02/2011 1138**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-010**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1054	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**18**		**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1054	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	**64-17-5**	**8260B**	**46**	**J**	**100**	**33**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**0.67**	**J**	**10**	**0.20**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		113	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1204	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-12**
Date Sampled: **11/02/2011 1138**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-010**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1204	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0060	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-13**
Date Sampled: **11/02/2011 1148**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-011**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1114	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**34**		**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1.7**	**J**	**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**130**		**5.0**	**1.7**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**82**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1114	BM		71219

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**9.1**	**J**	**20**	**6.7**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**11**	**J**	**20**	**6.7**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		119	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1225	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
* = Reportable result (only when report all runs)
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-13**
Date Sampled: **11/02/2011 1148**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-011**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1225	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.30**		**0.019**	**0.0060**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		124	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-14**
Date Sampled: **11/02/2011 1045**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-012**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/08/2011 1937	BM		71301
2	5030B	8260B	1	11/08/2011 2250	JJG		71325

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**36**		**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**65**		**5.0**	**1.7**	**ug/L**	**2**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**29**		**5.0**	**1.7**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**2.0**	**J**	**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**4.3**	**J**	**5.0**	**1.7**	**ug/L**	**2**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130		110	70-130
Bromofluorobenzene		99	70-130		103	70-130
Toluene-d8		95	70-130		105	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/08/2011 1937	BM		71301

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**22**		**20**	**6.7**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-14**
Date Sampled: **11/02/2011 1045**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-012**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	8011	8011	1	11/10/2011 1646	PMS	11/10/2011 0955	71440

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.013**	**JP**	**0.020**	**0.0061**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		130	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-14 (DUP)**
Date Sampled: **11/02/2011 1047**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-013**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/08/2011 1958	BM		71301
2	5030B	8260B	5	11/09/2011 0000	JJG		71325

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**200**		**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**510**		**25**	**8.5**	**ug/L**	**2**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**0.53**	**J**	**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**140**		**5.0**	**1.7**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**12**		**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**40**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130		96	70-130
Bromofluorobenzene		102	70-130		98	70-130
Toluene-d8		97	70-130		100	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/08/2011 1958	BM		71301

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**72**		**20**	**6.7**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**21**		**20**	**6.7**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-14 (DUP)**
Date Sampled: **11/02/2011 1047**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-013**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1308	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.031**	**P**	**0.019**	**0.0060**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		132	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)
H = Out of holding time
N = Recovery is out of criteria

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-16**
Date Sampled: **11/02/2011 0950**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-014**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 0932	BM		71223

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 0932	BM		71223

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1330	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **MW-16**
Date Sampled: **11/02/2011 0950**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-014**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1330	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0060	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **FIELD BLANK**
Date Sampled: **11/02/2011 0840**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-015**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 0955	BM		71223

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 0955	BM		71223

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1352	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **FIELD BLANK**
Date Sampled: **11/02/2011 0840**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-015**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1352	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0059	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **TRIP BLANK**
Date Sampled: **11/02/2011**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-016**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1018	BM		71223

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.20**	**J**	**5.0**	**0.20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/07/2011 1018	BM		71223

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1413	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
* = Reportable result (only when report all runs)

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **TRIP BLANK**
Date Sampled: **11/02/2011**
Date Received: **11/02/2011**

Laboratory ID: **MK02081-016**
Matrix: **Aqueous**

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/09/2011 1413	PMS	11/04/2011 1716	71161

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0061	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		127	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
* = Reportable result (only when report all runs)

H = Out of holding time
N = Recovery is out of criteria

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 07043

Client: BLE
Address: 6004 Ponders CT
City: Greenville State: SC Zip Code: 29615
Project Name: Former Ryder Terminal
Project Number: 1010-17
P.O. Number:
Report to Contact: Trevor Benton
Telephone No. / Fax No. / Email: 864 288 1265 / Trevor @ BLEcorp.com
Sampler (Printed Name): Ivan Inizarry
Waybill No.:
Quote No.:
Page 1 of 2

Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCl 6. Na Thio. 7. MeOH

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	GW	DW	WW	S	Other	BTEXNM Boxy +12DCA	8260	CDB - 8011
Number of Containers									3		3
Preservative									5		5
MW-1	11/2/11	1100	G	✓					✓		✓
MW-2		1108									
MW-2D		1218									
MW-5		1118									
MW-9		1128									
MW-7		0900									
MW-8		0849									
MW-10		0936									
MW-11		0915									
MW-12	✓	1138	↓	↓					↓		↓

Lot No.: MK62081
Remarks / Cooler ID

Turn Around Time Required (Prior lab approval required for expedited TAT): ✓ Standard ☐ Rush (Please Specify)
Sample Disposal: ☐ Return to Client ✓ Disposal by Lab
QC Requirements (Specify)
Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by / Sampler: Ivan A. Inizarry	11/2/11	1314	1. Received by: [signature]	11/2/11	1314
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: [signature]	11/2/11	1615	4. Laboratory Received by: [signature]	11/2/11	1615

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Check): ✓ Yes ☐ No ☐ Ice Pack
Receipt Temp: 1.3 °C
Temp. Blank ☐ Y / ☐ N

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 07044

Client: BLE	Report to Contact: Trevor Benton	Sampler (Printed Name): IVAN Irizarry	Quote No.
Address: 6009 Ponders Court	Telephone No. / Fax No. / Email: 8642881265 / Trevor@BLEcorp.com	Waybill No.	Page 2 of 2
City: Greenville State: SC Zip Code: 29615	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. MeOH		
Project Name: Former Ryder Terminal			Lot No. MK02081
Project Number: 1010-17	P.O Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G-Grab C-Composite	GW	DW	WW	S	Other	BTEX N MTBE Oxy + Ethanol 8260	EDB 8011	Remarks / Cooler ID
Number of Containers									3	3	
Preservative									5	5	
MW-13	11/2/11	1148	G	✓					✓	✓	
MW-14	↓	1045	↓	↓					↓	↓	
MW-19 (DUP)	↓	1047	↓	↓					↓	↓	
MW-16	↓	0950	✓	✓					✓	✓	
Field Blank	11/2/11	0840	✓					✓	✓	✓	
Trip Blank									✓	✓	

Turn Around Time Required (Prior lab approval required for expedited TAT): ☑ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by / Sampler: Ivan A. Irizarry	11/2/11	1314	1. Received by: [signature]	11/2/11	1314
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by: [signature]	11/2/11	1415	4. Laboratory Received by: [signature]	11/2/11	1415

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☑ Yes ☐ No ☐ Ice Pack | Receipt Temp 1.0 °C | Temp Blank ☐ Y ☐ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: BLK   Cooler Inspected by/date: ABL 11/2/11   Lot #: MK02081

Means of receipt: [x] SESI [ ] Client [ ] UPS [ ] FedEx [ ] Airborne Exp [ ] Other

Yes [ ]	No [x]		1. Were custody seals present on the cooler?
Yes [ ]	No [x]		2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt / 6.9 °C   / °C   / °C   / °C
Method: [ ] Temperature Blank [x] Against Bottles
Method of coolant: [x] Wet Ice [ ] Blue Ice [ ] Dry Ice [ ] None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes [ ]	No [ ]	NA [x]	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:______. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes [ ]	No [ ]	NA [x]	4. Is the commercial courier's packing slip attached to this form?
Yes [x]	No [ ]		5. Were proper custody procedures (relinquished/received) followed?
Yes [ ]	No [ ]	NA [x]	5a Were samples relinquished by client to commercial courier?
Yes [x]	No [ ]		6. Were sample IDs listed?
Yes [x]	No [ ]		7. Was collection date & time listed?
Yes [x]	No [ ]		8. Were tests to be performed listed on the COC?
Yes [x]	No [ ]		9. Did all samples arrive in the proper containers for each test?
Yes [x]	No [ ]		10. Did all container label information (ID, date, time) agree with COC?
Yes [x]	No [ ]		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes [x]	No [ ]		12. Was adequate sample volume available?
Yes [x]	No [ ]		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes [ ]	No [x]		14. Were any samples containers missing?
Yes [ ]	No [x]		15. Were there any excess samples not listed on COC?
Yes [ ]	No [x]	NA [ ]	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes [ ]	No [ ]	NA [x]	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes [ ]	No [ ]	NA [x]	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes [ ]	No [ ]	NA [x]	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes [ ]	No [ ]	NA [x]	20. Were collection temperatures documented on the COC for NC samples?
Yes [ ]	No [ ]	NA [x]	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)________ were received incorrectly preserved and were adjusted accordingly in sample receiving with ________ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s)________ were received with bubbles >6 mm in diameter.

Sample(s)________ were received with TRC >0.2 mg/L for NH3/ TKN/cyanide/BNA/pest/PCB/herb.

Corrective Action taken, if necessary:

Was client notified: Yes [ ] No [ ]   Did client respond: Yes [ ] No [ ]
SESI employee: ________   Date of response: ________
Comments:________

APPENDIX C

WASTE TRANSPORTATION AND DISPOSAL RECORDS

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: 6082-05

GENERATOR

5. Generator's Name and Mailing Address
Bunnell-Lammons Eng, Inc
6004 Ponders Court
Greenville, SC 29615
Generator's Phone:

Generator's Site Address (if different than mailing address)
Kmo #357 Tribbles
924 S. Mechanic st
Pendleton, SC

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

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

8. Designated Facility Name and Site Address
VLS Recovery Services
305 South Main St.
Mauldin, SC 29662
U.S. EPA ID Number
Facility's Phone: 864-962-9953
SCR 000762468

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11313 TRIBBLES UST #00747			145	9
2.	NON HAZ NON REG WELL WATER #11312 SPINX #149 Columbia, SC UST #07731			30	9
3.	NON HAZ NON REG WELL WATER #11312 Yosi Food Store Mauldin, SC UST #10502			15.5	9
4.	NON HAZ NON REG WELL WATER #11312 Fam Ryder Truck TERMINAL Greenville, SC UST #11929			13.5	9

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: REGINA KOENIG
Signature
Month 11 Day 18 Year 11

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: REGINA KOENIG
Signature
Month 11 Day 18 Year 11

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

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

Printed/Typed Name: Tommy Cox
Signature
Month 11 Day 18 Year 11

D H E C

PROMOTE PROTECT PROSPER

MAR 16 2007

AFVR. Directive

ALLEN VAUGHN
ESTATE OF ROBERT VAUGHN
4 E PARKER RD
GREENVILLE SC 29611-3504

Re: Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929; Cost Agreement #28815
Release Reported February 25, 1997
Assessment report received August 17, 2006
Greenville County

Dear Mr. Vaughn:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Program, suggests that an additional 8-hour Aggressive Fluid Vapor Recovery (AFVR) event be conducted on MW-6, followed by a comprehensive groundwater-sampling event. The sampling event should be conducted at least 30 days **after** the AFVR event to allow groundwater conditions to return to equilibrium.

Cost Agreement #28815 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. Approximately, 30 following the AFVR event, samples should be collected from all monitoring wells and analyzed for BTEX, Naphthalene, and MTBE by EPA method 8260B. Additionally, monitoring wells MW-1, 2, 13-15 should be analyzed for EDB by EPA Method 8011. Please note well purging should be conducted before sample collection if the well screen **does not** bracket the water table. Parsons Engineering Science, Inc. may proceed upon receipt of this letter. The report submitted at the completion of these activities should include the following:

- 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, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- A narrative portion documenting the estimated amount in gallons of the petroleum products removed as a liquid or vapor for the event. Wells containing free phase product should be gauged at the beginning and end of the AFVR event. Disposal manifests should be included as part of the final report.
- A narrative portion, documenting site conditions after the AFVR event and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the UST Program, shall be presented in tabular form. Groundwater laboratory analytical data for all monitoring wells 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.
- 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 #

BLE, Inc. 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 final report and invoice are due within 90 days from the date of this letter. Interim invoices may 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 UST Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the UST Program for the cost to be paid. The DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The UST Program grants preapproval for transportation of up to 5,000 gallons of groundwater from the referenced site to a permitted treatment facility. The contaminated groundwater must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report

On all correspondence concerning this site, please reference UST Permit #11929 and CA #28815. If you have any questions or need additional information, you may do so by phone at (803) 896-6396, fax (803) 896-6245, or email at abernajd@dhec.sc.gov.

Sincerely,

John D. Abernathy, Hydrogeologist
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

Enc: Approved Cost Agreement

cc: BLE, Inc., 6004 Ponders Ct., Greenville, SC 29611 (w/enc)
Technical file

UST Program/JDA/11929AFVR-GWS_ltr/3/8/2007

Approved Cost Agreement 38815

Facility: 11929 FORMER RYDER TERMINAL
ABERNAJD
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		A EQUIPMENT	1.0000	550.00	550.00
		B PERSONNEL	3.0000	275.00	825.00
10 SAMPLE COLLECTION					
		D GROUNDWATER NO-PURGE	15.0000	35.00	525.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	15.0000	100.00	1,500.00
		F EDB	5.0000	55.00	275.00
17 DISPOSAL					
		A2 WASTEWATER - PUMPING TEST	1,000.0000	0.60	600.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	7,275.00	1,091.25
23 EFR					
		A 8 HOUR EVENT	1.0000	3,000.00	3,000.00
				Total Amount	8,366.25

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST AGREEMENT # 40379

Prepared For:

Ms. Ingrid Auten
C/O Ms. Annie Mumbauer
BB&T Wealth Management
P.O. Box 408
Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-010

July 14, 2011

BLE Project Number J11-1010-16

B L E INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

July 14, 2011

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report of Multiple Aggressive Fluid Vapor Recovery Events**
Former Ryder Truck Terminal
Greenville, Greenville County
UST Permit #11929; CA #40379
BLE Project No. J11-1010-16

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of five aggressive fluid vapor recovery (AFVR) events at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated March 10, 2011. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the

soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2010 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. In a continued effort to remove free-product concentrations at the site, SCDHEC has required that five additional AFVR events be performed in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. This report presents the results of the work performed.

COMPLETED SCOPE OF SERVICES

Between March 15, 2011 and May 16, 2011, BLE personnel mobilized to the site to perform five AFVR events on existing monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The events were performed by Landprobe Drilling Services, LLC of Greenville, South Carolina (Landprobe), and a geologist from BLE was on-site for observation and monitoring. The AFVRs were performed 15 days apart in well groups specified by SCDHEC. This report presents the results of our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – MARCH 15, 2011

On March 15, 2011, the first AFVR event was conducted in monitoring well MW-15. Prior to initiating the event, BLE personnel gauged the monitoring well using a Solinst® Interface Meter Model 122. BLE personnel measured 1.05 feet of petroleum free-product in MW-15, prior to initiating the AFVR event (Figure 2).

The AFVR event was initiated at 1000 and concluded at 1800. The general weather conditions observed during this period of time were clear; winds varied between 13 and 17 mph with an ambient temperature between 42º and 52º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26.5 to 27 inches of mercury was applied to MW-15. In

addition to collecting vacuum readings, the depth to water (feet below top of PVC casing (btoc)) was measured every 30 minutes in MW-6 and MW-14, to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a granular activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 Photo Ionization Detector (PID). The observed vapor concentrations are shown in Table 1.

At the completion of the AFVR event, a total volume of 401 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately two gallons of free-phase product was measured in the holding tanks at the end of the AFVR event by Landprobe personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.14 pounds of gasoline vapor, which is equivalent to approximately 0.02 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations fo r this event are provided as Table 1A.

The AFVR well and source area monitoring wells were gauged immediately following the conclusion of the event and 0.13 feet of free-phase product was observed in MW-6. No free-product was detected in MW-15. Total free-product/water level changes for this event are shown in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – MARCH 30, 2011

On March 30, 2011, the second AFVR event was conducted in monitoring wells MW-6 and MW-18. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst®

Interface Meter Model 122. BLE personnel measured 1.57 feet and 0.33 feet of petroleum free-product in MW-6 and MW-18, respectively (Figure 2).

The AFVR event was initiated at 0800 and concluded at 1600. The general weather conditions observed during this period of time were cloudy with rain showers; winds varied between 6 and 18 mph with an ambient temperature between 46º and 55º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 26.5 inches of mercury was applied to MW-6 and MW-18. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in MW-2, MW-15, and MW-17 to evaluate drawdown. Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 660 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately six gallons of free-phase product was measured in the holding tanks at the end of the AFVR event by Landprobe personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.42 pounds of gasoline vapor, which is equivalent to approximately 0.07 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 2A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01 feet, 0.44 feet, 3.10 feet, and 0.01 feet of free-phase product was observed in

MW-6, MW-15, MW-17, and MW-18, respectively. Total free-product/water level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 – APRIL 14, 2011

On April 14, 2011, the third AFVR event was conducted in monitoring wells MW-4 and MW-17. BLE personnel measured 0.56 feet and 1.43 feet of free-product in monitoring wells MW-4 and MW-17, respectively, prior to initiating the AFVR event (Figure 2).

The AFVR event was initiated at 0750 and concluded at 1550. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 9 and 12 mph with an ambient temperature between 53º and 75º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 27 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to free-product/water (feet btoc) was measured every 30 minutes in monitoring wells MW-5, MW-6 and MW-15 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 3.

At the completion of the AFVR event, a total volume of 156 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately, three gallons of free-phase product were measured in the holding tanks at the end of the AFVR event by Landprobe personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.09 pounds of gasoline vapor, which is equivalent to approximately 0.01 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01 feet, 1.06 feet, and 0.46 feet of free-phase product was observed in MW-4, MW-6, and MW-15, respectively. Total water level changes for this event are shown in Table 3.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 – APRIL 29, 2011

On April 29, 2011, the fourth AFVR event was conducted in monitoring well MW-3R. Prior to initiating the event, BLE personnel did not detect the presence of free-phase petroleum product in MW-3R (Figure 2).

The AFVR event was initiated at 0745 and concluded at 1530. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 7 and 18 mph with an ambient temperature between 52º and 79º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 26 inches of mercury was applied to MW-3R. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in wells MW-13 and MW-18, to evaluate drawdown. Gauging data observed during the event is shown in Table 4.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 4.

At the completion of the AFVR event, a total volume of 471 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase petroleum product was measured in the holding tanks by Landprobe personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have

had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.31 pounds of gasoline vapor which is equivalent to approximately 0.05 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.14 feet of free-phase product was observed in MW-18. Total free-product/water level changes for this event are shown in Table 4.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #5 – MAY 16, 2011

On May 16, 2011, the fifth AFVR event was conducted in monitoring well MW-6. Prior to initiating the event, BLE personnel gauged 0.84 feet of free-phase petroleum product in MW-6 (Figure 2).

The AFVR event was initiated at 0815 and concluded at 1615. The general weather conditions observed during this period of time were mostly partly cloudy; winds varied between 4 and 13 mph with an ambient temperature between 54º and 70º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 25 to 26 inches of mercury was applied to MW-6. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in wells MW-15, MW-17, and MW-18, to evaluate drawdown. Gauging data observed during the event is shown in Table 5.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 5.

At the completion of the AFVR event, a total volume of 56 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately two gallons of free-phase petroleum product was measured in the holding tanks by Landprobe personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.15 pounds of gasoline vapor which is equivalent to approximately 0.02 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01 feet, 0.47 feet, 0.53 feet and 0.15 feet of free-phase product was observed in MW-6, MW-15, MW-17, and MW-18, respectively. Total free-product/water level changes for this event are shown in Table 5.

CONCLUSIONS AND RECOMMENDATIONS

On June 13, 2011 BLE personnel mobilized to the site to measure free-product levels in MW-2, MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 (Table 6). Approximately 0.15 feet (MW-4), 0.77 feet (MW-6), 0.51 feet (MW-15), 0.52 feet (MW-17), and 0.11 feet (MW-18) of free-phase product was measured in the wells.

Overall, the AFVR events have been successful in reducing free-product levels across the site; however, petroleum free-product still persists at moderate thicknesses in several wells. Therefore, we recommend an additional series of multiple 8-hour AFVR events be conducted to 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. We recommend a series of five additional AFVR events be conducted

on monitoring wells MW-4, MW-6, MW-15, and MW-17, which still exhibit free-product thicknesses.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey of the SCDHEC Bureau of Land and Waste Management, Financial Section, for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G.
Principal
Registered, South Carolina #893

TABLES

TABLE 1

AFVR Gauging Data - June 13, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-15	MW-14	MW-6	MW-15		
1000	27.0	24.46	27.66/29.90	24.65/25.70	271	1
1030	27.0	24.71	26.89/29.00	AFVR EVENT	1,080	1
1100	27.0	24.95	26.11/28.10		1,541	1
1130	27.0	25.18	26.18/28.24		1,520	1
1200	26.5	25.40	26.25/28.38		1486	1
1230	26.5	25.49	26.29/28.42		1158	1
1300	26.5	25.58	26.33/28.46		924	1
1330	26.5	25.65	26.36/28.48		1137	1
1400	26.5	25.71	26.39/28.50		1058	1
1430	26.5	25.76	26.42/28.53		889	1
1500	26.5	25.81	26.45/28.55		852	1
1530	26.5	25.84	26.46/28.58		816	1
1600	26.5	25.86	26.47/28.60		828	1
1630	26.5	25.86	26.48/28.61		923	1
1700	26.5	25.87	26.49/28.63		865	1
1730	26.5	25.88	26.49/28.62		796	1
1800	26.5	25.89	26.49/28.63	27.95	813	1
	Water Level Change (feet)	1.43	0.97	2.25		
	Initial FP thickness (feet)	NFP	2.24	1.05		
	Final FP thickness (feet)	NFP	0.13	NFP		

NOTES:

AFVR event performed on March 15, 2011.

2.24 and 1.05 feet of free-phase petroleum was detected in MW-6 and MW-15 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - Not free-phase petroleum product present

Prepared By:IAI
Checked By:MLT

TABLE 1A

AFVR Emissions Field Data - March 15, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-15

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
3/15/2011	1000	28.0	58	3	53.4	75.0	271	0:00	2.85	278.38	1,113.54	4	555.61	3.47E-05	0.01	0.01	0.00
3/15/2011	1030	28.0	38	3	66.2	81.4	1,080	0:30	1.82	1,109.43	4,437.71	4	2,214.24	1.38E-04	0.02	0.02	0.00
3/15/2011	1100	28.0	38	3	89.6	21.9	1,541	1:00	1.74	1,582.99	6,331.95	4	3,159.40	1.97E-04	0.02	0.02	0.00
3/15/2011	1130	28.0	58	3	92.6	18.0	1,520	1:30	2.65	1,561.42	6,245.66	4	3,116.34	1.95E-04	0.03	0.04	0.01
3/15/2011	1200	27.5	58	3	108.3	17.3	1,486	2:00	2.58	1,526.49	6,105.96	4	3,046.64	1.90E-04	0.03	0.03	0.01
3/15/2011	1230	27.5	58	3	104.9	35.2	1,158	2:30	2.59	1,189.55	4,758.21	4	2,374.16	1.48E-04	0.02	0.03	0.00
3/15/2011	1300	27.5	38	3	93.7	38.4	924	3:00	1.73	949.18	3,796.71	4	1,894.41	1.18E-04	0.01	0.01	0.00
3/15/2011	1330	27.5	38	3	95.3	41.9	1,137	3:30	1.73	1,167.98	4,671.92	4	2,331.11	1.46E-04	0.02	0.02	0.00
3/15/2011	1400	27.5	38	3	98.2	40.3	1,058	4:00	1.72	1,086.83	4,347.31	4	2,169.14	1.35E-04	0.01	0.02	0.00
3/15/2011	1430	27.5	38	3	92.6	42.2	889	4:30	1.74	913.22	3,652.89	4	1,822.65	1.14E-04	0.01	0.01	0.00
3/15/2011	1500	27.5	38	3	95.5	54.8	852	5:00	1.73	875.21	3,500.86	4	1,746.79	1.09E-04	0.01	0.01	0.00
3/15/2011	1530	27.5	38	3	95.5	50.9	816	5:30	1.73	838.23	3,352.93	4	1,672.98	1.04E-04	0.01	0.01	0.00
3/15/2011	1600	27.5	38	3	105.5	52.3	828	6:00	1.70	850.56	3,402.24	4	1,697.59	1.06E-04	0.01	0.01	0.00
3/15/2011	1630	27.5	38	3	105.5	57.2	923	6:30	1.70	948.15	4,740.75	5	2,365.45	1.48E-04	0.02	0.02	0.00
3/15/2011	1700	27.5	38	3	107.4	58.1	865	7:00	1.69	888.57	5,331.41	6	2,660.17	1.66E-04	0.02	0.02	0.00
3/15/2011	1730	27.5	38	3	109.3	56.4	796	7:30	1.68	817.69	5,723.82	7	2,855.97	1.78E-04	0.02	0.02	0.00
3/15/2011	1800	27.5	38	3	105.8	57.3	813	8:00	1.69	835.15	6,681.22	8	3,333.67	2.08E-04	0.02	0.02	0.00
Average Values		27.6	42.7	3	95.3	47.0	997		1.94	1,024.65	4,599.71	4.58824	2,295.08	1.43E-04	0.02	0.02	0.00
B_{ws}	0.027	B_{wsw}	0.016														

Total Pounds of Carbon Recovered as Emissions: 0.12

Total Pounds of Gasoline Recovered as Emissions: 0.14

Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:

AFVR event performed on March 15, 2011.
Vacuum applied to monitoring well MW-15.
0.01, 2.24, and 1.05 feet of free-phase petroleum was detected in MW-4, MW-6, and MW-15 prior to initiating the AFVR.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 2

AFVR Gauging Data - March 30, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data							Air Emissions	
	Vacuum Readings (inches of Hg)		Dept to Free Product/Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-18	MW-2	MW-6	MW-15	MW-17	MW-18		
0800	26.5	26.0	24.96	25.48/27.05	24.25/24.63	24.70/27.19	24.95/25.28	204	--
0830	26.5	26.0	25.60	AFVR EVENT	24.43/24.86	24.74/27.32	AFVR EVENT	780	14
0900	26.5	26.0	26.24		24.60/25.09	24.77/27.44		1,040	16
0930	26.5	26.0	26.51		24.78/25.32	24.85/27.62		1,443	18
1000	26.5	26.0	26.78		24.95/25.54	24.93/27.80		1026	28
1030	26.0	26.0	26.92		25.01/25.56	24.99/27.90		1221	25
1100	26.0	26.0	27.06		25.07/25.58	25.05/27.99		1132	23
1130	26.0	26.0	27.16		25.12/25.63	25.10/28.08		1303	20
1200	26.0	26.0	27.25		25.17/25.67	25.14/28.16		1136	19
1230	26.0	26.0	27.33		25.22/25.70	25.18/28.21		1271	21
1300	26.0	26.0	27.41		25.27/25.73	25.22/28.25		1051	18
1330	26.0	26.0	27.47		25.29/25.74	25.24/28.29		1113	19
1400	26.0	26.0	27.52		25.31/25.75	25.26/28.33		1061	19
1430	26.0	26.0	27.54		25.33/25.77	25.29/28.38		1009	20
1500	26.0	26.0	27.55		25.35/25.79	25.32/28.42		962	25
1530	26.0	26.0	27.56		25.36/25.80	25.34/28.44		987	23
1600	26.0	26.0	27.56	28.29/28.30	25.36/25.80	25.35/28.45	29.89/29.90	821	17
	Water Level Change (feet)		3.07	1.25	1.17	1.26	4.62		
	Initial FP thickness (feet)		NFP	1.57	0.38	2.49	0.33		
	Final FP thickness (feet)		NFP	0.01	0.44	3.10	0.01		

NOTES:
AFVR event performed on March 30, 2011.
1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NFP - Not free-phase petroleum product present

Prepared By:IAI
Checked By:MLT

TABLE 2A

AFVR Emissions Field Data - March 30, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-6 and MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
3/30/2011	800	27	77	3	56.8	77.0	204	0:00	3.58	220.05	880.20	4	439.19	2.74E-05	0.01	0.01	0.00
3/30/2011	830	27	77	3	76.8	84.6	780	0:30	3.45	841.37	3,365.49	4	1,679.25	1.05E-04	0.02	0.03	0.00
3/30/2011	900	27	116	3	100.0	26.9	1,040	1:00	4.98	1,121.83	4,487.31	4	2,239.00	1.40E-04	0.04	0.05	0.01
3/30/2011	930	27	135	3	126.8	17.5	1,443	1:30	5.53	1,556.54	6,226.15	4	3,106.61	1.94E-04	0.06	0.07	0.01
3/30/2011	1000	27	116	3	133.5	16.4	1,026	2:00	4.70	1,106.73	4,426.91	4	2,208.86	1.38E-04	0.04	0.04	0.01
3/30/2011	1030	27	135	3	136.0	40.2	1,221	2:30	5.44	1,317.07	5,268.28	4	2,628.67	1.64E-04	0.05	0.06	0.01
3/30/2011	1100	27	135	3	133.5	42.0	1,132	3:00	5.47	1,221.07	4,884.27	4	2,437.06	1.52E-04	0.05	0.06	0.01
3/30/2011	1130	27	155	3	139.4	45.3	1,303	3:30	6.21	1,405.52	5,622.09	4	2,805.20	1.75E-04	0.07	0.08	0.01
3/30/2011	1200	27	155	3	139.6	45.2	1,136	4:00	6.21	1,225.38	4,901.53	4	2,445.67	1.53E-04	0.06	0.07	0.01
3/30/2011	1230	27	135	3	134.7	49.2	1,271	4:30	5.45	1,371.00	5,484.02	4	2,736.31	1.71E-04	0.06	0.06	0.01
3/30/2011	1300	27	116	3	135.5	49.9	1,051	5:00	4.68	1,133.69	4,534.78	4	2,262.68	1.41E-04	0.04	0.05	0.01
3/30/2011	1330	27	175	3	136.7	41.9	1,113	5:30	7.05	1,200.57	4,802.29	4	2,396.16	1.50E-04	0.06	0.07	0.01
3/30/2011	1400	27	155	3	138.0	16.6	1,061	6:00	6.23	1,144.48	4,577.92	4	2,284.21	1.43E-04	0.05	0.06	0.01
3/30/2011	1430	27	155	3	140.5	55.2	1,009	6:30	6.20	1,088.39	4,353.56	4	2,172.26	1.36E-04	0.05	0.06	0.01
3/30/2011	1500	27	155	3	141.2	54.0	962	7:00	6.19	1,037.69	4,150.77	4	2,071.07	1.29E-04	0.05	0.06	0.01
3/30/2011	1530	27	155	3	140.7	57.6	987	7:30	6.20	1,064.66	4,258.63	4	2,124.89	1.33E-04	0.05	0.06	0.01
3/30/2011	1600	27	135	3	139.4	60.9	821	8:00	5.41	885.60	3,542.39	4	1,767.52	1.10E-04	0.04	0.04	0.01
Average Values		27	134.2	3	126.4	45.9	1,033		5.47	1,114.21	4,456.86	4	2,223.80	1.39E-04	0.05	0.05	0.01
B_{ws}	0.073	B_{wsw}	0.044														

Total Pounds of Carbon Recovered as Emissions: 0.36

Total Pounds of Gasoline Recovered as Emissions: 0.42

Total Gallons of Gasoline Recovered as Emissions: 0.07

NOTES:

AFVR event performed on March 30, 2011.
Vacuum applied to monitoring wells MW-6 and MW-18.
1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 3

AFVR Gauging Data - April 14, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data							Air Emissions	
	Vacuum Readings (inches of Hg)		Depth to Free Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Time	MW-4	MW-17	MW-4	MW-5	MW-6	MW-15	MW-17		
0750	26.5	26.0	24.03/24.59	24.00	25.23/26.04	23.73/24.24	24.41/25.84	83	--
0820	26.5	26.0	AFVR EVENT	24.01	25.27/26.17	23.77/24.29	AFVR EVENT	233	8
0850	27.0	26.0		24.02	25.30/26.30	23.81/24.34		359	6
0920	27.0	26.0		24.02	25.37/26.41	23.81/24.34		387	6
0950	27.0	26.0		24.02	25.43/26.51	23.81/24.34		390	7
1020	27.0	26.0		24.03	25.47/26.56	23.81/24.33		435	8
1050	27.0	26.0		24.03	25.51/26.60	23.81/24.32		497	10
1120	27.0	26.0		24.03	25.54/26.62	23.81/24.32		490	11
1150	27.0	26.0		24.03	25.57/26.64	23.81/24.32		554	14
1220	27.0	26.0		24.03	25.59/26..67	23.80/24.32		521	10
1250	27.0	26.0		24.02	25.60/26.69	23.79/24.32		483	8
1320	27.0	26.0		24.02	25.62/26.71	23.78/24.31		474	9
1350	27.0	26.0		24.01	25.64/26.73	23.77/24.29		459	7
1420	27.0	26.0		24.01	25.65/26.74	23.77/24.28		484	9
1450	27.0	26.0		24.00	25.66/26.74	23.77/24.28		471	7
1520	27.0	26.0		23.99	25.67/26.74	23.77/24.27		477	8
1550	27.0	26.0	25.04/25.05	23.98	25.67/26.73	23.76/24.25	28.47	497	10
	Water Level Change (feet)		0.46	-0.20	0.69	0.01	2.63		
	Initial FP thickness (feet)		0.56	NFP	0.81	0.51	1.43		
	Final FP thickness (feet)		0.01	NFP	1.06	0.46	NFP		

NOTES:
AFVR event performed on April 14, 2011.
0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water;
positive = drawdown; negative = rise
NFP - No free-phhase petroleum product present

Prepared By:IAI
Checked By:MLT

TABLE 3A

AFVR Emissions Field Data - April 14, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
4/14/2011	750	27.5	77	3	68.1	89.9	83	0:00	3.40	92.34	369.35	4	184.29	1.15E-05	0.00	0.00	0.00
4/14/2011	820	27.5	58	3	81.1	94.7	233	0:30	2.50	259.21	1,036.85	4	517.35	3.23E-05	0.00	0.01	0.00
4/14/2011	850	27.5	58	3	101.4	89.6	359	1:00	2.41	399.39	1,597.55	4	797.12	4.98E-05	0.01	0.01	0.00
4/14/2011	920	27.5	58	3	109.7	85.6	387	1:30	2.37	430.54	1,722.15	4	859.29	5.36E-05	0.01	0.01	0.00
4/14/2011	950	27.5	77	3	110.3	83.7	390	2:00	3.15	433.88	1,735.50	4	865.95	5.41E-05	0.01	0.01	0.00
4/14/2011	1020	27.5	77	3	116.4	88.2	435	2:30	3.11	483.94	1,935.75	4	965.87	6.03E-05	0.01	0.01	0.00
4/14/2011	1050	27.5	77	3	120.2	79.7	497	3:00	3.09	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
4/14/2011	1120	27.5	77	3	121.4	73.5	490	3:30	3.09	545.13	2,180.50	4	1,087.99	6.79E-05	0.01	0.01	0.00
4/14/2011	1150	27.5	58	3	123.4	75.4	554	4:00	2.32	616.33	2,465.30	4	1,230.09	7.68E-05	0.01	0.01	0.00
4/14/2011	1220	27.5	77	3	126.8	71.1	521	4:30	3.06	579.61	2,318.45	4	1,156.82	7.22E-05	0.01	0.02	0.00
4/14/2011	1250	27.5	77	3	127.9	63.0	483	5:00	3.05	537.34	2,149.35	4	1,072.44	6.70E-05	0.01	0.01	0.00
4/14/2011	1320	27.5	77	3	131.5	94.3	474	5:30	3.03	527.33	2,109.30	4	1,052.46	6.57E-05	0.01	0.01	0.00
4/14/2011	1350	27.5	58	3	131.5	67.1	459	6:00	2.28	510.64	2,042.55	4	1,019.15	6.36E-05	0.01	0.01	0.00
4/14/2011	1420	27.5	58	3	132.4	70.9	484	6:30	2.28	538.45	2,153.80	4	1,074.66	6.71E-05	0.01	0.01	0.00
4/14/2011	1450	27.5	77	3	133.3	70.8	471	7:00	3.02	523.99	2,095.95	4	1,045.80	6.53E-05	0.01	0.01	0.00
4/14/2011	1520	27.5	77	3	136.0	67.2	477	7:30	3.01	530.66	2,122.65	4	1,059.12	6.61E-05	0.01	0.01	0.00
4/14/2011	1550	27.5	77	3	136.4	67.0	497	8:00	3.01	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
Average Values		27.5	70.3	3	118.1	78.3	429		2.83	477.33	1,909.31	4	952.67	5.95E-05	0.01	0.01	0.00

B_{ws}	0.101	B_{wsw}	0.061

Total Pounds of Carbon Recovered as Emissions: 0.08

Total Pounds of Gasoline Recovered as Emissions: 0.09

Total Gallons of Gasoline Recovered as Emissions: 0.01

NOTES:

AFVR event performed on April 14, 2011.
Vacuum applied to Monitoring wells MW-4 and MW-17.
0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 4

AFVR Gauging Data - April 29, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-3R	MW-3R	MW-13	MW-18		
0745	26.0	23.43	22.86	24.20/24.31	312	--
0815	26.0	AFVR EVENT	22.98	24.19/24.32	1,166	--
0845	26.0		23.10	24.18/24.33	1,302	24
0915	26.0		23.19	24.2324.37	1,295	27
0945	26.0		23.27	24.27/24.41	1205	24
1015	26.0		23.32	24.31/24.45	1110	19
1045	26.0		23.37	24.35/24.48	1070	13
1115	26.0		23.42	24.38/24.51	935	10
1145	26.0		23.46	24.40/24.54	940	10
1215	26.0		23.49	24.42/24.55	369	6
1245	26.0		23.51	24.43/24.56	670	9
1315	26.0		23.52	24.44/24.57	851	10
1345	26.0		23.53	24.44/24.57	777	8
1415	26.0		23.55	24.45/24.59	726	7
1445	26.0		23.57	24.46/24.60	640	7
1515	26.0		23.58	24.47/24.61	611	6
1530	26.0	25.26	23.58	24.47/24.61	585	6
	Water Level Change (feet)	1.83	0.72	0.30		
	Initial FP thickness (feet)	NFP	NFP	0.11		
	Final FP thickness (feet)	NFP	NFP	0.14		

NOTES:
AFVR event performed on April 29, 2011.
0.11 feet of free-phase petroleum was detected in MW-18, prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise
NFP - No free-phase petroleum product present.

Prepared By:IAI
Checked By:MLT

TABLE 4A

AFVR Emissions Field Data - April 29, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-3R

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
4/29/2011	745	27.5	97	3	61.5	80.3	312	0:00	4.31	349.03	1,396.13	4	696.61	4.35E-05	0.01	0.01	0.00
4/29/2011	815	27.5	77	3	91.4	88.2	1,166	0:30	3.24	1,304.39	5,217.57	4	2,603.37	1.63E-04	0.03	0.04	0.01
4/29/2011	845	27.5	97	3	113.3	69.9	1,302	1:00	3.92	1,456.54	5,826.14	4	2,907.02	1.81E-04	0.04	0.05	0.01
4/29/2011	915	27.5	77	3	116.7	58.1	1,295	1:30	3.09	1,448.70	5,794.82	4	2,891.39	1.81E-04	0.03	0.04	0.01
4/29/2011	945	27.5	118	3	124.3	91.6	1,205	2:00	4.68	1,348.02	5,392.09	4	2,690.44	1.68E-04	0.05	0.05	0.01
4/29/2011	1015	27.5	118	3	127.7	93.2	1,110	2:30	4.65	1,241.75	4,966.99	4	2,478.33	1.55E-04	0.04	0.05	0.01
4/29/2011	1045	27.5	118	3	129.5	67.8	1,070	3:00	4.64	1,197.00	4,788.00	4	2,389.02	1.49E-04	0.04	0.05	0.01
4/29/2011	1115	27.5	118	3	131.0	61.8	935	3:30	4.63	1,045.98	4,183.90	4	2,087.61	1.30E-04	0.04	0.04	0.01
4/29/2011	1145	27.5	135	3	138.9	62.1	940	4:00	5.22	1,051.57	4,206.28	4	2,098.77	1.31E-04	0.04	0.05	0.01
4/29/2011	1215	27.5	118	3	116.2	75.1	369	4:30	4.74	412.80	1,651.19	4	823.88	5.14E-05	0.01	0.02	0.00
4/29/2011	1245	27.5	97	3	123.6	73.1	670	5:00	3.85	749.52	2,998.09	4	1,495.93	9.34E-05	0.02	0.02	0.00
4/29/2011	1315	27.5	118	3	132.0	67.3	851	5:30	4.62	952.01	3,808.02	4	1,900.06	1.19E-04	0.03	0.04	0.01
4/29/2011	1345	27.5	135	3	134.6	64.1	777	6:00	5.26	869.22	3,476.89	4	1,734.83	1.08E-04	0.03	0.04	0.01
4/29/2011	1415	27.5	135	3	140.1	57.8	726	6:30	5.21	812.17	3,248.68	4	1,620.96	1.01E-04	0.03	0.04	0.01
4/29/2011	1445	27.5	155	3	141.2	56.4	640	7:00	5.97	715.96	2,863.85	4	1,428.95	8.92E-05	0.03	0.04	0.01
4/29/2011	1515	27.5	135	3	143.2	55.4	611	7:30	5.19	683.52	2,734.08	4	1,364.20	8.52E-05	0.03	0.03	0.00
4/29/2011	1530	27.5	135	3	144.1	55.1	585	7:45	5.18	654.43	2,617.74	4	1,306.15	8.15E-05	0.03	0.03	0.00
Average Values		27.5	116.6	3	124.1	69.3	857		4.61	958.39	3,833.56	4	1,912.80	1.19E-04	0.03	0.04	0.01
B_{ws}	0.106	B_{wsw}	0.064														

Total Pounds of Carbon Recovered as Emissions: 0.26

Total Pounds of Gasoline Recovered as Emissions: 0.31

Total Gallons of Gasoline Recovered as Emissions: 0.05

NOTES:

AFVR event performed on April 29, 2011.
Vacuum applied to monitoring well MW-3R.
0.11 feet of free-phase petroleum was detected in MW-18, prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 5

AFVR Gauging Data - May 16, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

	Monitoring Well Gauging Data					Air Emissions	
	Vacuum Readings (inches of Hg)	Depth to Free Product/ Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-6	MW-15	MW-17	MW-18		
0815	26	24.38/25.22	22.90/23.31	23.64/24.18	23.80/23.94	840	--
0845	25	AFVR EVENT	22.92/23.35	23.69/24.22	23.88/24.02	1,681	--
0915	25		22.93/23.38	23.73/24.26	23.96/24.10	1,995	28
0945	25		22.95/23.40	23.77/24.30	24.00/24.13	1,930	25
1015	25		22.96/23.42	23.81/24.34	24.03/24.16	1,765	26
1045	25		22.97/23.43	23.84/24.37	24.05/24.18	1,703	31
1115	25		22.97/23.44	23.87/24.40	24.06/24.20	1,690	27
1145	25		22.98/23.45	23.90/24.43	24.07/24.21	1,426	21
1215	25		22.98/23.45	23.92/24.45	24.08/24.22	1,414	20
1245	25		22.98/23.45	23.94/24.46	24.09/24.22	1,358	20
1315	25		22.98/23.45	23.95/24.47	24.09/24.22	1,296	25
1345	25		22.98/23.46	23.96/24.49	24.10/24.23	1,150	18
1415	25		22.98/23.46	23.97/24.50	24.10/24.23	1,150	18
1445	25		22.98/23.45	23.98/24.52	24.11/24.24	1,120	17
1515	25		22.98/23.44	23.99/24.53	24.11/24.25	1,088	15
1545	25		22.98/23.44	24.00/24.53	24.11/24.25	1,061	13
1615	25	26.77/26.78	22.97/23.44	24.00/24.53	24.10/24.25	944	13
	Water Level Change (feet)	1.56	0.13	0.35	0.31		
	Initial FP thickness (feet)	0.84	0.41	0.54	0.14		
	Final FP thickness (feet)	0.01	0.47	0.53	0.15		

NOTES:

AFVR event performed on May 16, 2011.

0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - No free-phase petroleum product present.

Prepared By:IAI
Checked By:MLT

TABLE 5A

AFVR Emissions Field Data - May 16, 2011
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

WELL ID #: MW-6

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
5/16/2011	815	27	18	3	66.0	88.1	840	0:00	0.81	914.27	3,657.07	4	1,824.74	1.14E-04	0.01	0.01	0.00
5/16/2011	845	27	18	3	80.6	94.3	1,681	0:30	0.79	1,829.62	7,318.49	4	3,651.64	2.28E-04	0.01	0.01	0.00
5/16/2011	915	27	18	3	113.5	70.8	1,995	1:00	0.75	2,171.38	8,685.54	4	4,333.75	2.71E-04	0.01	0.01	0.00
5/16/2011	945	27	18	3	119.8	72.9	1,930	1:30	0.74	2,100.64	8,402.55	4	4,192.55	2.62E-04	0.01	0.01	0.00
5/16/2011	1015	27	18	3	123.4	69.5	1,765	2:00	0.73	1,921.05	7,684.20	4	3,834.12	2.39E-04	0.01	0.01	0.00
5/16/2011	1045	27	36	3	120.3	69.7	1,703	2:30	1.48	1,853.57	7,414.27	4	3,699.43	2.31E-04	0.02	0.02	0.00
5/16/2011	1115	27	18	3	124.5	72.8	1,690	3:00	0.73	1,839.42	7,357.67	4	3,671.19	2.29E-04	0.01	0.01	0.00
5/16/2011	1145	27	58	3	126.1	62.1	1,426	3:30	2.36	1,552.08	6,208.31	4	3,097.71	1.93E-04	0.03	0.03	0.01
5/16/2011	1215	27	38	3	126.6	63.9	1,414	4:00	1.54	1,539.02	6,156.06	4	3,071.64	1.92E-04	0.02	0.02	0.00
5/16/2011	1245	27	58	3	127.7	60.1	1,358	4:30	2.35	1,478.06	5,912.26	4	2,949.99	1.84E-04	0.03	0.03	0.00
5/16/2011	1315	27	38	3	120.7	63.3	1,296	5:00	1.56	1,410.58	5,642.33	4	2,815.31	1.76E-04	0.02	0.02	0.00
5/16/2011	1345	27	58	3	120.3	62.8	1,150	5:30	2.38	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.02	0.03	0.00
5/16/2011	1415	27	38	3	118.7	64.3	1,150	6:00	1.56	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.01	0.02	0.00
5/16/2011	1445	27	58	3	115.8	70.2	1,120	6:30	2.40	1,219.02	4,876.09	4	2,432.98	1.52E-04	0.02	0.03	0.00
5/16/2011	1515	27	38	3	118.2	65.3	1,088	7:00	1.57	1,184.19	4,736.77	4	2,363.47	1.48E-04	0.01	0.02	0.00
5/16/2011	1545	27	38	3	120.3	63.8	1,061	7:30	1.56	1,154.81	4,619.22	4	2,304.81	1.44E-04	0.01	0.02	0.00
5/16/2011	1615	27	38	3	123.2	64.3	944	8:00	1.55	1,027.46	4,109.85	4	2,050.66	1.28E-04	0.01	0.01	0.00
Average Values		27	36	3	115.6	69.3	1,389		1.46	1,511.68	6,046.71	4	3,017.07	1.88E-04	0.02	0.02	0.00
B_{ws}	0.081	B_{wsw}	0.049														

Total Pounds of Carbon Recovered as Emissions: 0.13

Total Pounds of Gasoline Recovered as Emissions: 0.15

Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:

AFVR event performed on May 16, 2011.
Vacuum applied to observation wells MW-6.
0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By:IAI
Checked By:MLT

TABLE 6

Post AFVR Gauging Data - August 16, 2010
Former Ryder Truck
Greenville, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #40379
BLE Project Number J11-1010-16

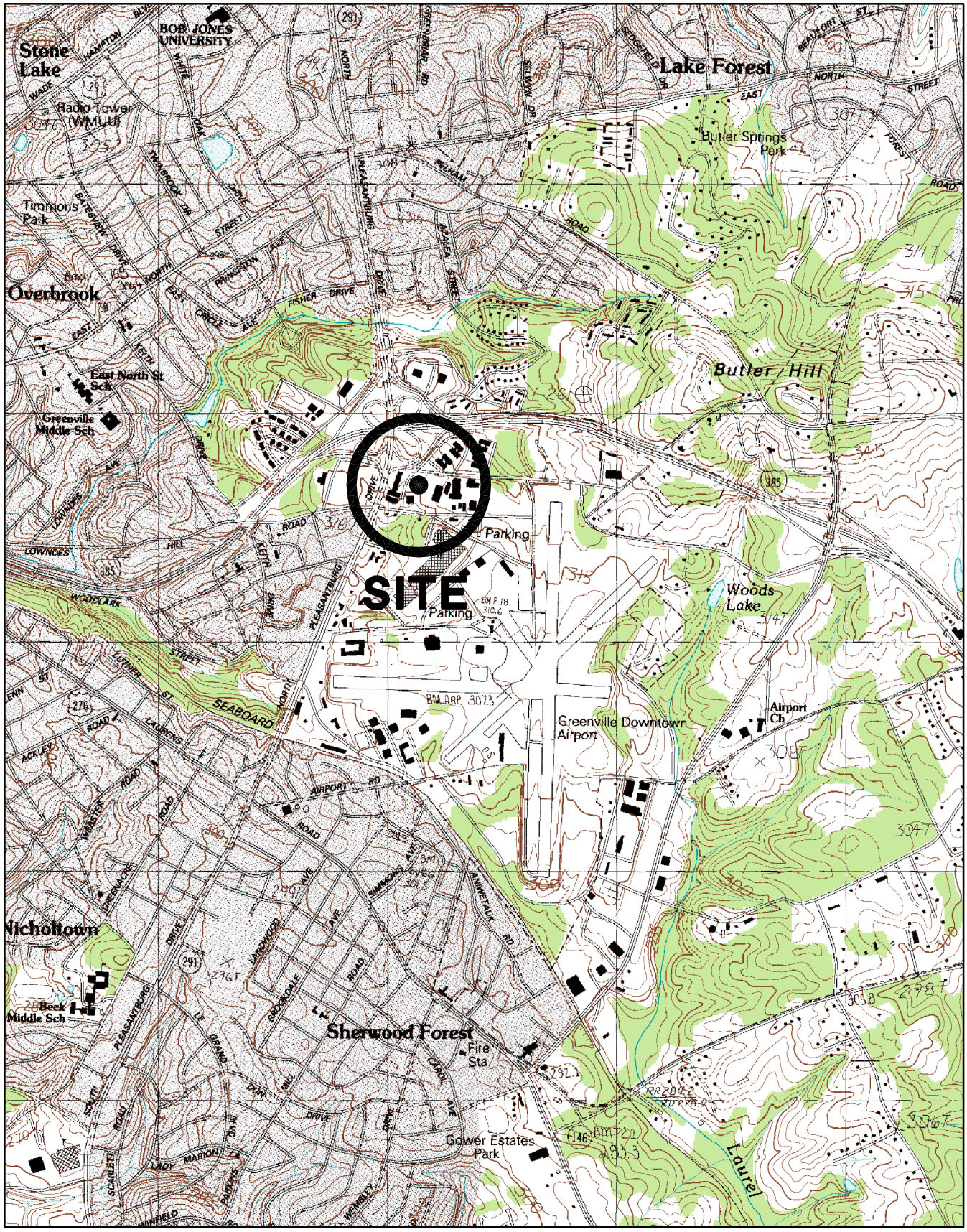
Well ID	MW-2	MW-3R	MW-4	MW-6	MW-15	MW-17	MW-18
Depth to Free-Product / Groundwater	24.08	23.61	23.35/23.50	24.60/25.37	23.20/23.71	23.85/24.37	24.10/24.21
Free-Product Thickness (ft)	**NFP**	**NFP**	**0.15**	**0.77**	**0.51**	**0.52**	**0.11**

NOTES:

Measurements are in feet below top of casing

Prepared By: IAI
Checked By: MLT

FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 06-14-11	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-16SLM		FIGURE 1
APPROVED:	JOB NO: J11-1010-16		

WELL #	MW-4	
DATE	4-14-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	0.56	0.15

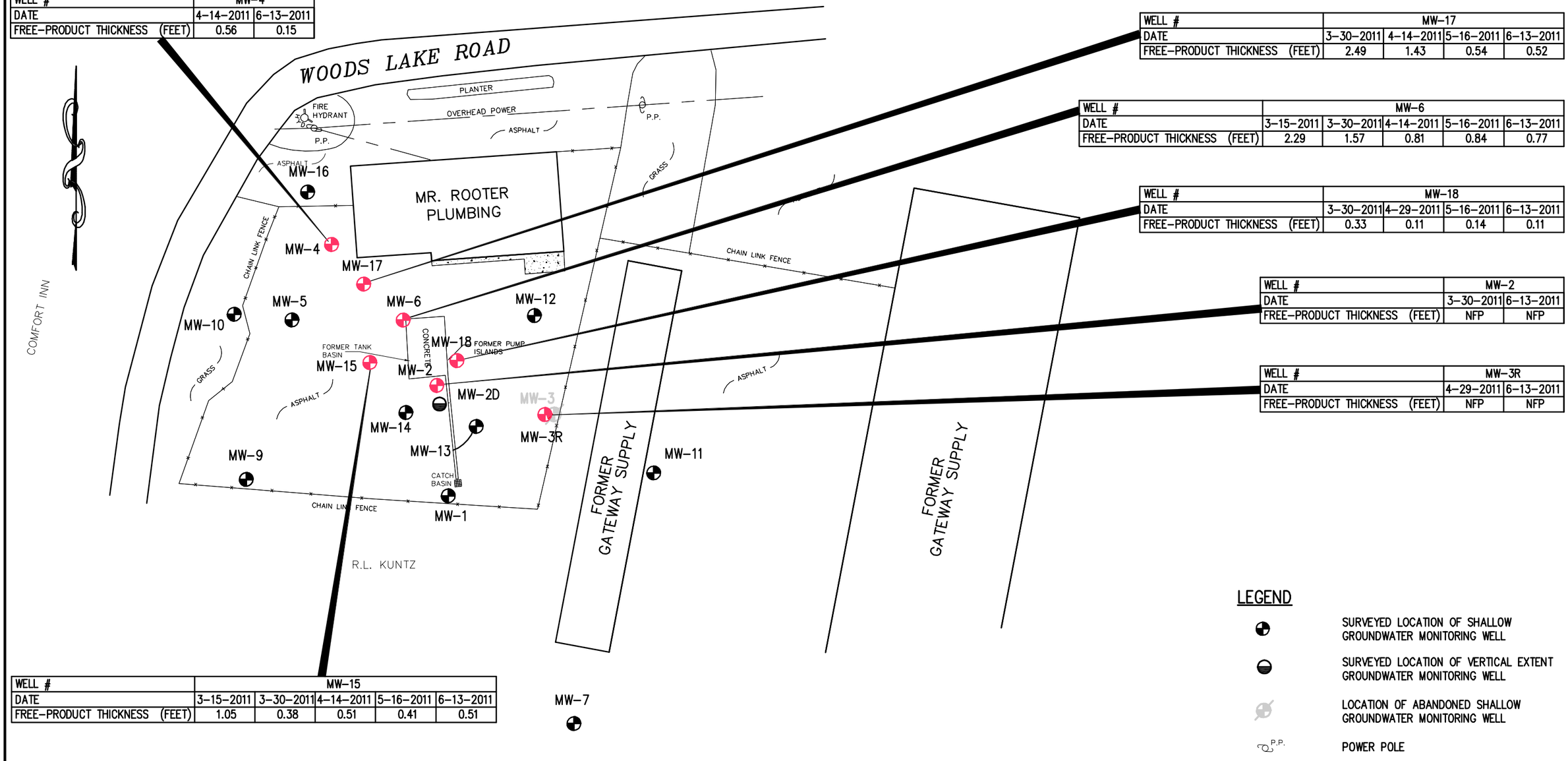
WELL #	MW-17			
DATE	3-30-2011	4-14-2011	5-16-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	2.49	1.43	0.54	0.52

WELL #	MW-6				
DATE	3-15-2011	3-30-2011	4-14-2011	5-16-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	2.29	1.57	0.81	0.84	0.77

WELL #	MW-18			
DATE	3-30-2011	4-29-2011	5-16-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	0.33	0.11	0.14	0.11

WELL #	MW-2	
DATE	3-30-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	MW-3R	
DATE	4-29-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	NFP	NFP



WELL #	MW-15				
DATE	3-15-2011	3-30-2011	4-14-2011	5-16-2011	6-13-2011
FREE-PRODUCT THICKNESS (FEET)	1.05	0.38	0.51	0.41	0.51

60 30 0 60 120

APPROXIMATE SCALE IN FEET

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- NFP — NO FREE PRODUCT

NOTE:
WITH THE EXCEPTION OF THE JUNE 11, 2011 MEASUREMENT, ALL FREE-PRODUCT MEASUREMENTS SHOWN WERE COLLECTED PRIOR TO PERFORMING AFVR EVENTS.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	06-14-11
CHECKED BY:	IAI	FILE:	FORMERRTT-16FPTM
APPROVED BY:		JOB NO:	J11-1010-16

REVISIONS		
No.	DESCRIPTION	BY

BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

AFVR FREE-PRODUCT THICKNESS MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 2

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 2

3. Emergency Response Phone

4. Waste Tracking Number: 1010-15

5. Generator's Name and Mailing Address
Bunnell-Lammons Eng, Inc
6004 Ponders Court
Greenville, SC 29615
As Agent

Generator's Site Address (if different than mailing address)
Former Ryder
10 Woods Lake Dr
Greenville, SC

Generator's Phone:

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

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

8. Designated Facility Name and Site Address: VLS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29662
U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-0993

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Well Water #11312 — Former Ryder Truck Terminal UST #11929	001	TT	~~1900~~ 401	G
2.	Well Water #11312 — Randy Sims Exxon, Hwy 25 Princeton, SC, UST # 05663			40	g
3.	Well Water #11312 — Sonny's Country Store, 885 Hayne St Spartanburg, UST # 08605			9.5	g
4.	Well Water #11312 — Jennings Exxon, 210 NE Main St Simpsonville, SC, UST # 04140			15	g

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Regina Koenig — Signature: [signature] — Month 3 Day 16 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Regina Koenig — Signature: [signature] — Month 3 Day 16 Year 11
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Angelo Talley — Signature: [signature] — Month 3 Day 16 Year 11

169-BLC-O 5 11977 (Rev. 9/09) TRANSPORTER #1

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Conf #4518

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				1010-15

GENERATOR

5. Generator's Name and Mailing Address
Bunnell-Lammons Eng. Inc
6004 Ponders Court
Greenville, SC 29615
Agent for

Generator's Site Address (if different than mailing address)
Former Ryan Terminal
10 Woodlake Dr
Greenville, SC

Generator's Phone:

6. Transporter 1 Company Name
BLE

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
VLS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29662

U.S. EPA ID Number
SCR000782469

Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Well Water #11312 Former Ryan Terminal UST #11929	001	TT	1000 660	G	
2.	Well Water #11312 Pine Ridge UST #00410			235	9	
3.	Well Water #11312 Stringer Dr. Bulk Plant UST #00493			63	9	
4.						

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Regina Koenig | Signature | Month: 3 | Day: 30 | Year: 11

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: Regina Koenig | Signature | Month: 3 | Day: 30 | Year: 11

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: Rusty Price | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			1010-15

GENERATOR

5. Generator's Name and Mailing Address
Bunnell-Lammons Eng. Inc
8304 Ponders Court
Greenville, SC 29615
Agent for

Generator's Site Address (if different than mailing address)
Former Ryder Terminal
10 Woods Lake Rd
Greenville, SC

Generator's Phone:

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

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

8. Designated Facility Name and Site Address
VLS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29662
U.S. EPA ID Number
SCR000762469

Facility's Phone: 864-962-9963

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Well Water #11312 Former Exmark 270 UST # 10683	001	TT	1600 442	G	
2.	WELL WATER #11312 Former Ryder Terminal UST # 11929			156	9	
3.						
4.						

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Regina Koenig
Signature:
Month: 4 Day: 14 Year: 11

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: Regina Koenig
Signature:
Month: 4 Day: 14 Year: 11

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: Ruby P. C
Signature:
Month: 4 Day: 14 Year: 11

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

Conf # 5094

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	
2. Page 1 of	
3. Emergency Response Phone	
4. Waste Tracking Number	7319-01

5. Generator's Name and Mailing Address
Bunnell-Lammons Eng, Inc
6004 Ponders Court
Greenville, SC 29615

Generator's Site Address (if different than mailing address)
Former Enmark 270
White Horse Rd
Greenville SC

Generator's Phone:

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

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

8. Designated Facility Name and Site Address: VLS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29662
U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9963

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Well Water #11312 Former Enmark 270 UST # 10683	001	TT	~~1600~~ 791	G
2. Well Water #11312 Former Ryder UST #11929			471	g
3. Well Water #11312 Stringer Oil UST # 00492			4	g
4.				

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Regina Koenig — Signature: [signature] — Month 4 Day 28 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Regina Koenig — Signature: [signature] — Month 4 Day 29 Year 11
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [handwritten name] — Signature: [signature] — Month 4 Day 29 Year 11

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				5360-D1

5. Generator's Name and Mailing Address

Bunnell-Lammons Eng, Inc
6004 Ponders Court
Greenville, SC 29615

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

HESS
BROOKRIVER Rd
Columbia, SC

Generator's Phone:

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

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

8. Designated Facility Name and Site Address: VLS Recovery Services Piedmont, LLC, 306 South Main St., Mauldin, SC 29662 — U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
GENERATOR	1. Well Water #11312 Former Ryder GREENVILLE, SC UST # ~~[illegible]~~ 11929	001	TT	~~~4000~~ 56	G
	2. WELL WATER #11312 HESS Columbia, SC UST # 07633			611	G
	3. WELL WATER #11312 STOP-A-MINIT ANDERSON, SC # 00566			593	G
	4.				

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
REGINA KOENIG	[signature]	5	18	11

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

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	REGINA KOENIG	[signature]	5	18	11
Transporter 2					

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
[signature]	[signature]	5	18	11

169-BLC-O 5 11977 (Rev. 9/09) TRANSPORTER #1

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

August 10, 2007

South Carolina Department of Health and Environmental Control
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Mr. John D. Abernathy
Hydrogeologist

Subject: **Report of Aggressive Fluid Vapor Recovery and Groundwater Sampling**
Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, Greenville County
UST Permit # 11929; CA # 28815
BLE Project No. J07-1010-11

Dear Mr. Abernathy:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has completed an Aggressive Fluid Vapor Recovery (AFVR) event and a subsequent groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated March 16, 2007. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Richard A. Mayer Jr., G.I.T.
Staff Hydrogeologist

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 2395

TREVOR J. BENTON REGISTERED No. 2395 SOUTH CAROLINA PROFESSIONAL GEOLOGIST 8/10/07

Thomas L. Lammons, P.G.
Principal Hydrogeologist
Registered, South Carolina No. 893

PROFESSIONAL GEOLOGIST REGISTERED No. 893 SOUTH CAROLINA THOMAS L. LAMMONS

cc: Mr. Allen Vaughn, 4 East Parker Road, Greenville, SC 29611-1916.

UST PROGRAM DOCKETING # 2

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Master Keys Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and 2006 by BLE to define the extent of petroleum contamination at the site.

Based on the findings presented to SCDHEC in the *Report of Supplemental Environmental Activities*, prepared by BLE (dated August 11, 2006), free-phase petroleum product is present on the site. In an effort to eliminate the presence of free-phase product, SCDHEC requested that an AFVR event be conducted on monitoring wells MW-2 and MW-6. SCDHEC has further requested that a comprehensive groundwater sampling event be conducted at least 30 days after the AFVR event to obtain current groundwater quality data. This report presents the results of our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

On April 26, 2007, an 8-hour AFVR event was conducted in monitoring wells MW-2 and MW-6 on the subject property. A hydrogeologist from BLE, Rick A. Mayer, was on site for observation and monitoring. The AFVR event was performed by Jamie McNeill of GARCO, Inc. of Asheboro, North Carolina (U.S. E.P.A. ID #NCR000135384). Prior to initiating the event, BLE personnel gauged approximately 0.13 feet of free-phase petroleum product in MW-2 and 1.07 feet of free-phase petroleum product in MW-6. Product measurements were made using a Solinst® Interface Meter Model 122. Additionally, the depth to groundwater was measured in the monitoring wells adjacent to MW-2 and MW-6. The initial depth to groundwater readings, measured in feet below the top of the PVC well casing (btoc), were 27.61 (MW-1), 26.91 (MW-2D), 24.59 (MW-3R), 24.10 (MW-5), 24.45 (MW-13), 23.92 (MW-14), and 24.11 (MW-15), respectively.

The AFVR event initiated at 08:00 and concluded at 16:00. The general weather conditions observed during this period of time were partly cloudy to mostly cloudy; winds varied between 8 to 16 miles per hour (mph) with an ambient temperature between 63° and 75° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 14.5 to 17.5 inches of mercury was applied to MW-2 and MW-6. The depth to water (feet btoc) measurements were collected every 30 minutes on wells MW-1, MW-2D, MW-3R, MW-5, MW-13, MW-14, and MW-15 to evaluate effective drawdown. Additionally, effluent vapor concentrations were measured by BLE personnel every 30 minutes throughout the event using a MiniRAE® 2000 portable Photo-Ionization Detector (PID) (Model PGM 7600). Gauging data observed during the event is shown in Table 1.

At the completion of the AFVR event, a total volume of 694 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of this total volume, approximately 16 gallons were measured as free-phase petroleum hydrocarbons. The average product recovery rate observed during the event was approximately 2 gallons/hour. Monitoring wells MW-2 and MW-6 were gauged immediately following the conclusion of the event and no free-phase product was observed. The depth to water readings (feet btoc) immediately following the event were 27.77 (MW-1), 27.21 (MW-2D), 25.31 (MW-3R), 24.22 (MW-5), 26.32 (MW-13), 26.54 (MW-14), and 25.77 (MW-15) respectively. Monitoring well MW-14 had a maximum drawdown of 2.62 feet while 1.87 feet was observed in MW-13, 1.66 feet was observed in MW-15, and 0.72 feet was observed in MW-3R. Minimal drawdown was observed in MW-1, MW-2D, and MW-5 (Table 1).

On May 29, 2007, monitoring wells MW-2 and MW-6 were gauged to determine if free-phase petroleum product was present at the site following the AFVR event. BLE personnel detected 0.26 (MW-2) and 0.63 (MW-6) feet of free-phase product respectively. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

GROUNDWATER SAMPLING

Sixteen groundwater monitoring wells (MW-1, MW-2, MW-2D, MW-3R, and MW-4 through MW-15) are present at the site. Groundwater levels were measured on May 29, 2007 (Table 2). A groundwater elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown as Figure 2.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling. Therefore, only MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix B. The samples were delivered via courier to Pace Analytical, Inc. in Charlotte, North Carolina for analysis (SC Certification #99006) of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and methyl-tertiary-butyl-ether (MTBE) by EPA Method 8260B. Pursuant to SCDHEC's directive, monitoring wells MW-3R, MW-13, MW-14, and MW-15 were additionally sampled for 1,2-dibrmoethane (EDB) by EPA Method 8011. Monitoring well sampling logs and procedures are included in Appendix B. The laboratory data sheets are provided in Appendix C. Concentrations of the chemicals of concern (CoC) for each well is shown on Figure 2. Additionally, historical groundwater laboratory analytical data is provided in Table 3.

Purge water generated during the groundwater sampling event was contained in a sealed 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix A.

GROUNDWATER SAMPLING RESULTS

Monitoring wells MW-2 and MW-6 exhibited 0.26 feet and 0.63 feet of free-phase petroleum product, respectively and therefore were not sampled. Additionally, MW-11 was covered with

debris and was not able to be sampled at this time. Of the thirteen groundwater samples collected for laboratory analysis, four wells (MW-3R, MW-13, MW-14, and MW-15) detected petroleum hydrocarbons above South Carolina Risk-Based Screening Levels[1] (RBSLs). Benzene, Naphthalene, and EDB were detected above the RBSLs in MW-3R, MW-13, MW-14, and MW-15. Additionally, petroleum hydrocarbons detected above the laboratory Method Detection Limit (MDL), but at levels below the RBSL include xylenes (MW-3R, MW-13, MW-14, and MW-15), ethylbenzene (MW-14 and MW-15), toluene (MW-15), and MTBE (MW-12). The remaining monitoring wells (MW-1, MW-2D, MW-4, MW-5, and MW-7 through MW-10) did not detect petroleum hydrocarbons above the laboratory MDL. Based on the laboratory results, concentrations of the detected petroleum hydrocarbons are mainly confined to the source area or slightly downgradient of the source area. The results of the groundwater samples are summarized in Table 3, and are shown on Figure 2. Laboratory data sheets are provided in Appendix C.

RECOMMENDATIONS

Free-phase petroleum product is still present in MW-2 and MW-6 following the completion of the AFVR event. We recommend one additional groundwater monitoring well be installed approximately 20 feet east of MW-15, to be utilized as an additional AFVR extraction point. This new well would be at the midpoint of MW-2 and MW-6 and would be ideal for further recovery of petroleum free-product and dissolved phase CoC. After installation of the new well, we recommend a series of multiple AFVR events be conducted in MW-2, MW-6, and the new well in attempt to remove the remaining free-product from the site. Additionally, approximately one month after completion of the final AFVR event, we recommend a comprehensive groundwater sampling event be performed to evaluate current conditions. The type of petroleum contamination at the site appears to be a mixture of gasoline, diesel, and fuel/waste oil. Due to the presence of fuel/waste oil, we recommend the addition of the 8 RCRA metals to the sampling matrix.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or

[1] South Carolina Risk-Based Corrective Action for Petroleum Releases, Bureau of Land and Waste Management, Underground Storage Tank Program, May 15, 2001.

relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

AFVR Gauging Data
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #28815
BLE Project No. J07-1010-11

	Monitoring Well Gauging Data									Air Emissions
	Vacuum Readings		Depth to Water (feet BTOC)							Effluent
Time	MW-2	MW-6	MW-1	MW-2D	MW-3R	MW-5	MW-13	MW-14	MW-15	(ppm)
0800	14.5	15.0	27.61	26.91	24.59	24.10	24.45	23.92	24.11	52.1
0830	14.5	15.5	27.62	26.97	24.73	24.11	24.90	24.69	24.53	56.8
0900	15.0	16.5	27.63	27.03	24.87	24.12	25.36	25.46	24.98	55.2
0930	15.0	16.5	27.64	27.07	24.97	24.13	25.55	25.85	25.29	53.8
1000	15.5	16.5	27.66	27.10	25.06	24.14	25.71	26.13	25.44	50.7
1030	15.5	16.5	27.68	27.12	25.11	24.15	25.84	26.28	25.53	55.7
1100	15.5	16.5	27.70	27.14	25.14	24.16	25.93	26.37	25.60	60.9
1130	15.5	17.0	27.72	27.16	25.18	24.17	26.01	26.42	25.66	63.3
1200	15.5	17.0	27.74	27.17	25.22	24.18	26.08	26.44	25.70	58.2
1230	15.5	17.0	27.75	27.17	25.25	24.19	26.15	26.46	25.72	62.1
1300	15.0	17.5	27.75	27.18	25.27	24.20	26.21	26.48	25.73	59.8
1330	15.0	17.5	27.76	27.18	25.29	24.20	26.25	26.49	25.74	63.4
1400	15.0	17.5	27.76	27.19	25.30	24.21	26.27	26.50	25.75	61.6
1430	15.0	17.5	27.76	27.19	25.30	24.21	26.29	26.51	25.75	60.5
1500	15.0	17.5	27.77	27.20	25.31	24.21	26.30	26.52	25.76	61.9
1530	15.0	17.5	27.77	27.20	25.31	24.22	26.31	26.53	25.76	62.2
1600	15.0	17.5	27.77	27.21	25.31	24.22	26.32	26.54	25.77	60.1
			Maximum Drawdown (ft)							
			0.16	0.30	0.72	0.12	1.87	2.62	1.66	

NOTES:

AFVR event performed on April 26, 2007.
1.07 feet of petroleum free-product measured in MW-6
0.13 feet of petroleum free-product measured in MW-2
Vapor concentrations measured using a portable MiniRAE® 2000
Photo-Ionization Detector (PID).
Vacuum readings measured in inches of Hg
inches of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million

Prepared By: RAM
Checked By: TJB

TABLE 2

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #28815
BLE Project No. J07-1010-11

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	28.90	26.69	71.80	31.0	21.0 - 31.0	77.5 - 67.5
MW-2*	100.10	100.54	25.36	25.80	74.74	35.0	25.0 - 35.0	75.5 - 65.5
MW-2D	99.29	99.76	27.25	27.73	72.04	54.5	49.5 - 54.5	50.3 - 45.3
MW-3	Well abandoned December 5, 2005							
MW-3R	99.00	99.57	24.83	25.40	74.17	32.4	18.5 - 28.5	81.1 - 71.1
MW-4	102.67	102.91	24.71	24.95	77.96	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	24.41	24.65	77.07	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	25.89	26.27	75.85	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	26.48	26.78	66.19	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	23.09	23.20	65.67	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	24.22	24.61	78.04	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	24.32	24.32	80.35	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	N/A	N/A	N/A	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	25.93	26.23	75.45	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	24.20	24.53	74.42	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	24.22	24.75	75.08	32.0	21.8 - 31.8	78.0 - 68.0
MW-15	100.39	100.58	24.41	24.60	75.98	33.5	23.3 - 33.3	77.3 - 67.3

NOTES:
Groundwater levels were measured on May 29, 2007
Measurements are in feet; elevations are relative to an arbitrary site datum.
*Petroleum free product was measured in MW-2 (0.26') & MW-6 (0.63') on 5/29/07
Groundwater elevation data for MW-2 and MW-6 has been corrected for free-product thickness using a density of 0.70 g/cc.
MW-11 was covered by debris and unable to be sampled during this event
btoc = below top of casing
bgs = below ground surface

Prepared By: TJB
Checked By: RAM

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #28815
BLE Project No. J07-1010-11

Compound	EPA Method	Units	RBSL	MW-1									MW-2									MW-2D								MW-3						
				Date Sampled									Date Sampled									Date Sampled								Date Sampled						
				12/13/1996	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/3/2004	1/20/2005	2/23 & 3/13/2006	5/29/2007	12/13/1996	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23 & 3/13/2006	5/29/2007	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/3/2004	1/20/2005	2/23/2006	5/29/2007	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006
Petroleum Free Product	NA	feet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.7	1.25	1.25	1.42	0.01	0.23	NA	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	8260B	µg/l	5	26.6	ND	2.6	ND	ND	ND	ND	ND	ND	249	NT	NT	NT	NT	NT	NT	120	NT	2.6	3.5	ND	1.4	ND	ND	ND	ND	63.5	NT	NT	NT	NT	NT	A
Toluene	8260B	µg/l	1,000	1.74	ND	ND	ND	ND	ND	ND	ND	ND	22.5	NT	NT	NT	NT	NT	NT	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	6.41	NT	NT	NT	NT	NT	A
Ethylbenzene	8260B	µg/l	700	2.61	ND	ND	ND	ND	ND	ND	ND	ND	43.5	NT	NT	NT	NT	NT	NT	6.8	NT	ND	ND	ND	ND	ND	ND	ND	ND	19.2	NT	NT	NT	NT	NT	A
Xylenes, Total	8260B	µg/l	10,000	6.4	ND	ND	ND	ND	ND	ND	ND	ND	363	NT	NT	NT	NT	NT	NT	170	NT	3.2	ND	ND	ND	ND	ND	ND	ND	193	NT	NT	NT	NT	NT	A
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.1	NT	NT	NT	NT	NT	NT	ND	NT	ND	3.1	ND	1.2	3.7	ND	ND	ND	ND	NT	NT	NT	NT	NT	A
Naphthalene	8260B	µg/l	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	906	NT	NT	NT	NT	NT	NT	240	NT	12.5	4.3	ND	ND	ND	ND	ND	ND	886	NT	NT	NT	NT	NT	A
EDB	8011	µg/l	0.05	NT	ND	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	0.33	NT	ND	NT	NT	NT	NT	ND	ND	ND	ND	NT	NT	NT	NT	NT	A
Acenaphthene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	14.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	A
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	29.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	A
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	49.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	A
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	329	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	A
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	470	NT	NT	NT	NT	NT	NT	NT	NT	260,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	A
Lead	7421	µg/l	15	NT	41.0	14.0	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	32.0	ND	NT	ND	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	A
Filtered Lead	7421	µg/l	15	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	A
Ferrous Iron	3500D	µg/l	NE	NT	ND	ND	243	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	3,200	3,830	5,240	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	A
Nitrate	9056	mg/l	NE	NT	0.62	0.71	ND	0.87	NT	0.94	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	2.04	ND	NT	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	A
Sulfate	9056	mg/l	NE	NT	12.57	7.3	11.8	4.1	NT	4.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	16.81	16.0	ND	8.8	NT	12.90	NT	NT	2.75	NT	NT	NT	NT	NT	NT	A
Dissolved Oxygen	field test	mg/l	NE	NT	3.6	2.25	NT	NT	NT	3.40	6.95	5.32	NT	NT	NT	NT	NT	NT	NT	0.93	NT	NT	6.2	2.92	NT	NT	5.81	5.75	3.64	NT	3.4	NT	NT	NT	NT	A

Compound	EPA Method	Units	RBSL	MW-3R		MW-4							MW-5								MW-6								MW-7						
				Date Sampled		Date Sampled							Date Sampled									Date Sampled								Date Sampled						
				2/24 & 3/13/2006	5/29/2007	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	5/29/2007	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	5/29/2007	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	5/29/2007	9/15/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/24/2006	5/29/2007
Petroleum Free Product	NA	feet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.83	>3.0	>3.0	2.19	1.72	1.54	0.63	NA	NA	NA	NA	NA	NA	NA
Benzene	8260B	µg/l	5	48.0	48.0	2.2	ND	ND	ND	ND	ND	ND	ND	162	ND	ND	252	23.1	11.8	ND	ND	523	NT	NT	NT	NT	NT	NT	NT	ND	12.9	6.2	ND	ND	ND	ND
Toluene	8260B	µg/l	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.5	4.0	ND	ND	ND	1,670	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	8260B	µg/l	700	ND	ND	1.73	ND	ND	ND	ND	ND	ND	ND	ND	1.13	ND	5.10	2.0	ND	ND	ND	104	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	8260B	µg/l	10,000	81	109	150	10.6	21.5	ND	ND	ND	ND	ND	6.83	6.26	ND	32.4	8.7	ND	ND	ND	434	NT	NT	NT	NT	NT	NT	NT	ND	11.6	4.0	ND	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92.7	NT	NT	NT	NT	NT	NT	NT	ND	6.8	3.2	3.8	ND	ND	ND
Naphthalene	8260B	µg/l	25	130	140	196	26.2	49.6	ND	ND	ND	ND	ND	33.3	80.2	ND	5.0	ND	ND	ND	ND	499	NT	NT	NT	NT	NT	NT	NT	ND	20.1	6.0	ND	ND	ND	ND
EDB	8011	µg/l	0.05	0.90	0.51	ND	NT	NT	NT	NT	ND	ND	NT	ND	NT	NT	NT	NT	ND	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT
Acenaphthene	8270C	µg/l	NE	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	8270C	µg/l	NE	5.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	8270C	µg/l	NE	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	8270C	µg/l	25	79.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH (DRO)	8015B	µg/l	NE	4,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	7421	µg/l	15	NT	NT	11.0	11.0	NT	ND	NT	NT	NT	NT	38.0	70.0	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	48.0	NT	ND	NT	NT	NT	NT
Filtered Lead	7421	µg/l	15	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
Ferrous Iron	3500D	µg/l	NE	NT	NT	ND	ND	158	ND	NT	NT	NT	NT	300	ND	214	242	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2,200	269	ND	NT	NT	NT	NT
Nitrate	9056	mg/l	NE	0.15	NT	0.71	1.29	2.75	2.24	NT	1.60	NT	NT	0.16	0.52	26.0	0.99	NT	0.31	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	0.32	0.60	0.62	NT	1.30	NT	NT
Sulfate	9056	mg/l	NE	1.2	NT	3.26	3.69	ND	ND	NT	ND	NT	NT	1.92	4.79	ND	ND	NT	1.70	NT	NT	2.02	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	NT	1.10	NT	NT
Dissolved Oxygen	field test	mg/l	NE	0.59	2.02	NT	3.20	0.46	NT	NT	2.86	1.92	0.69	NT	2.8	0.52	NT	NT	1.56	2.65	0.60	NT	NT	NT	NT	NT	NT	NT	NT	5.0	NT	NT	NT	4.02	1.98	3.16

Notes:
µg/l = micrograms/l = approximate Parts Per Billion (ppb)
mg/l = milligrams/l = approximate Parts Per Million (ppm)
Shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = No Established Values for RBSL
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05
Petroleum free-product was present only in MW-6 during this sampling event

Prepared By: TJB
Checked By: RAM

TABLE 3 - CONTINUED

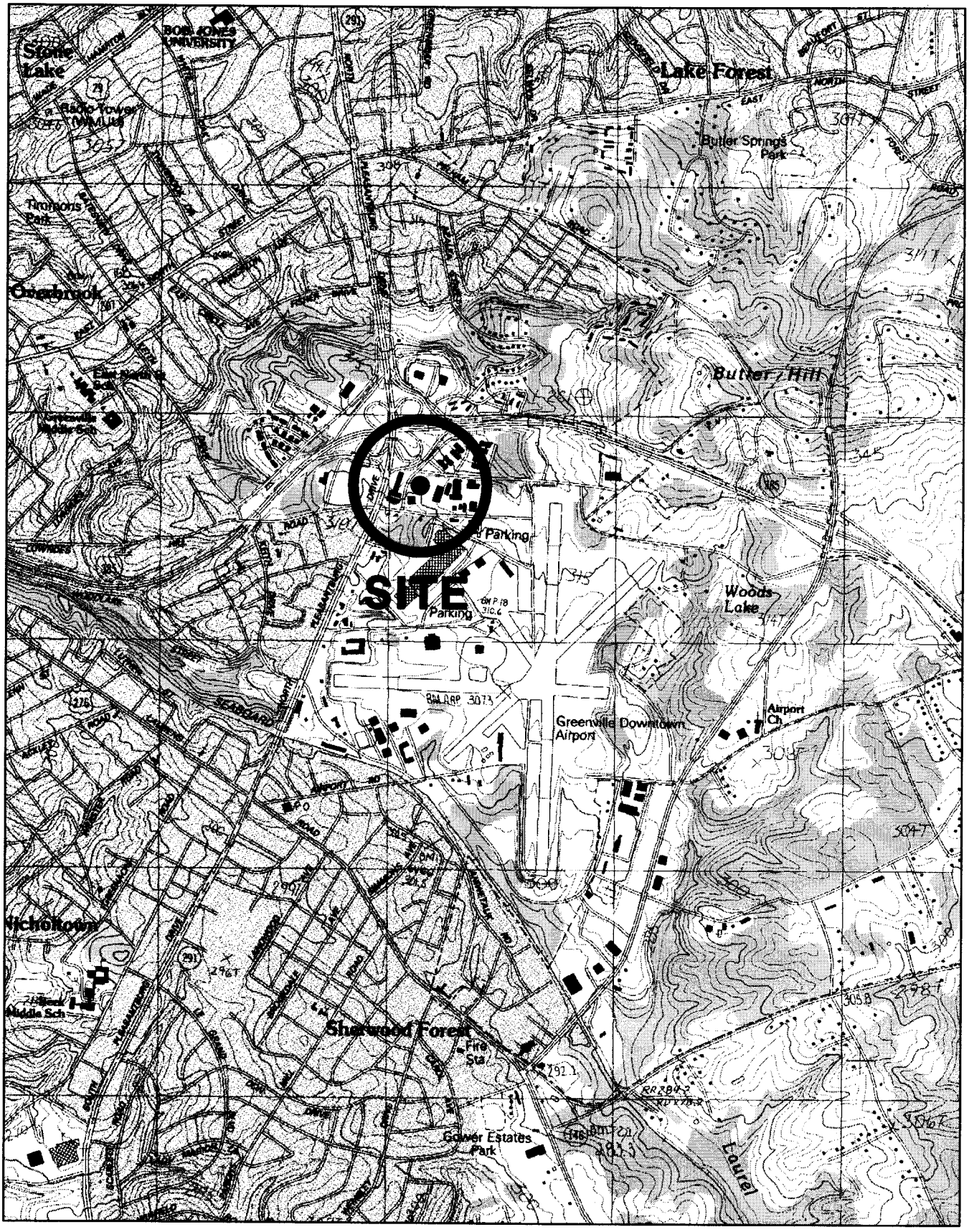
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #28815
BLE Project No. J07-1010-11

Compound	EPA Method	Units	RBSL	MW-8							MW-9				MW-10				MW-11				MW-12		MW-13		MW-14		MW-15	
				Date Sampled							Date Sampled				Date Sampled				Date Sampled				Date Sampled		Date Sampled		Date Sampled		Date Sampled	
				9/15/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/24/2006	5/29/2007	2/3/2004	1/20/2005	2/23/2006	5/29/2007	2/2/2004	1/20/2005	2/24/2006	5/29/2007	2/2/2004	1/20/2005	2/24/2006	5/29/2007	2/24 & 3/13/2006	5/29/2007	2/24 & 3/13/2006	5/29/2007	2/24 & 3/13/2006	5/29/2007	2/24 & 3/13/2006	5/29/2007
Petroleum Free Product	NA	feet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Benzene	8260B	µg/l	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	100	160	160	220	100	190
Toluene	8260B	µg/l	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	34.0	ND	8.0	12.0
Ethylbenzene	8260B	µg/l	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	480	550	25.0	21
Xylenes, Total	8260B	µg/l	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	110	199	620	700	160	240
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	6.1	11.0	ND	ND	ND	ND	ND	ND
Naphthalene	8260B	µg/l	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	100	178	160	250	140	390
EDB	8011	µg/l	0.05	NT	NT	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	NT	0.76	0.62	0.46	0.26	0.54	0.45
Acenaphthalene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	5.0	NT	ND	NT	ND	NT
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	8.6	NT	ND	NT	7.4	NT
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	8.7	NT	ND	NT	6.7	NT
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	160	NT	59.0	NT	230	NT
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	220	NT	7,500	NT	4,000	NT	5,200	NT
Lead	7421	µg/l	15	ND	NT	ND	NT	NT	NT	NT	14.0	NT	NT	NT	ND	NT	NT	NT	5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Filtered Lead	7421	µg/l	15	NT	NT	NT	NT	ND	NT	NT	NT	ND	NT	NT	NT	ND	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ferrous Iron	3500D	µg/l	NE	220	135	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate	9056	mg/l	NE	0.60	0.58	0.83	NT	0.64	NT	NT	NT	0.78	NT	NT	NT	0.85	NT	NT	NT	1.20	NT	NT	5.5	NT	0.025	NT	ND	NT	0.87	NT
Sulfate	9056	mg/l	NE	ND	ND	3.10	NT	ND	NT	NT	NT	ND	NT	NT	NT	ND	NT	NT	NT	1.20	NT	NT	1.1	NT	10.0	NT	1.9	NT	1.7	NT
Dissolved Oxygen	field test	mg/l	NE	4.3	NT	NT	NT	4.62	3.78	1.89	NT	3.98	4.95	5.69	NT	4.50	2.37	2.27	NT	3.26	2.78	NT	2.21	2.19	1.07	1.13	1.52	0.73	1.70	0.38

Notes:
µg/l = micrograms/l = approximate Parts Per Billion (ppb)
mg/l = milligrams/l = approximate Parts Per Million (ppm)
Shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = No Established Values for RBSL
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05

Prepared By: TJB
Checked By: RAM

FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: AEH	DATE: 07-30-07	BLE INC. BURNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: RAM	CAD: FORMERRTT-11SLM		FIGURE 1
APPROVED:	JOB NO: J07-1010-11		

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

GARCO, Inc.

Environmental, Industrial & Recycling Services

Certificate of Disposal

GENERATOR: Former Ryder Truck Facility
10 Woods Lake Drive
Greenville, SC

MATERIAL ACCEPTED:

1 - Vacuum Truck(s) - (694 - gal.) - Non-Hazardous Materials - Purge Water

DISPOSAL METHOD:

Waste Water Treatment

GARCO, Inc. accepted the above listed materials on 04/27/2007.

GARCO, Inc. has accepted custody of the above referenced non-hazardous material. This material has been determined to be non-hazardous by a material profile, generator knowledge, and/or analytical data provided to GARCO, Inc..

Greg Russell
President

Post Office Box 1907 / Asheboro, NC 27204-1907 / 336-683-0911 / Fax 336-683-0811

GARCO, Inc.

NON-HAZARDOUS WASTE MANIFEST

Please print or type

NON-HAZARDOUS WASTE MANIFEST		Manifest Document No. 07001	2. Page 1 of
3. Generator's Name and Mailing Address	Former Ryder Truck Facility 10 Woods Lake Drive Greenville, SC	1. Generator's US EPA ID No.	
		4. Generator's Phone	
5. Transporter 1 Company Name GARCO, Inc.	6. US EPA ID No. NCR000135384	B. Transporter 1 Phone (336) 683-0911	
7. Transporter 2 Company Name	8. US EPA ID No.	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address	GARCO, Inc. 2503 N. Fayetteville St. Asheboro, NC 27203	10. US EPA ID Number NCR000135384	
		F. Facility's Phone (336) 683-0911	

11. Waste Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
A) Non-Hazardous Materials	1	Vacuum Truck	694	G
B)				
C)				
D)				

G. Additional Descriptions for Materials Listed Above

A) Purge Water C)

B) D)

15. Special Handling Instructions and Additional Information

24 Hour ER# 800-814-1204

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Rick Mayer As agent for the Former Ryder TRUK	Rick Mayer	4	26	07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Jamie Mcneill	Jamie Mcneill	4	26	07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt for waste materials covered by this manifest, except as noted above.

Printed/Typed Name	Signature	Date Month	Day	Year
Dennis Crowder	Dennis Crowder	4	27	07

GARCO, Inc.
AFVR Form

Page _____ of _____

Client: BLE

Date: 4/26/07

Site: Greenville S.C.

Site Contact: Rick Mayer

Time leaving ~~GARCO~~ COMFORT INN: 0700

Arrival time @ site: 0730

AFVR start time: 0800

		HG on truck	Temp	Humid	Anemometer Reading ft/min	MW #2	MW# 6	MW#	MW#	MW#	MW#
Readings: Start	0800	20	145.0	13.6	3680	20	15				
Readings: Time:	0900	20	167.0	14.5	3870	20	15				
Time:	1000	20	172.4	14.2	3739	20	15				
Time:	1100	20	170.1	14.4	3837	20	15				
Time:	1200	20	167.8	14.5	4093	20	15				
Time:	1300	20	167.9	14.2	4050	20	15				
Time:	1400	20	175.5	14.1	4231	20	15				
Time:	1500	20	179.2	14.2	4073	20	15				
Time:	1600	20	182.9	14.5	4054	20	15				

AFVR stop time: 1600

Product recovered: 16

Total volume generated from AFVR: 694

GARCO, Inc. operator: Jamie

Vacuum Truck # 3

Excalibur Environmental Services, Inc.
PO Box 1751
Simpsonville, South Carolina 29680
(864) 967-9744

NON-HAZARDOUS
VIRGIN PETROLEUM-IMPACTED
MONITOR WELL PURGE WATER TREATMENT MANIFEST

Non-Hazardous Waste Treatment Manifest No. 133

Environmental Consultant Name/Address Mr. Trevor Benton, PG
BLE, Inc.
6004 Ponders Court
Greenville, SC 29615

Generators Name/Address Estate of Robert B. Vaughn / Mr. Allen Vaughn
4 East Parker Road
Greenville, SC

Site Name/Address Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, SC

Source of Waste UST System Release
SCDHEC Site ID No. 11929

Waste Description	Container (s) / Volume (g)	Treatment
Non-Hazardous Virgin Petroleum-Impacted MW Purge Water	1 drum	*GAC

***Granulated Activated Carbon Mobile Treatment Unit**

Generator Representative Certification
I hereby certify that the waste material listed above is fully and accurately described, that the waste material is non-hazardous, and that the waste material is not subject to federal hazardous waste regulations.

Name: _____ FOR ESTATE OF ROBERT B. VAUGHN **Date:** 6/4/07
(Generators Representative)

Waste Treatment Certification
Excalibur Environmental Services, Inc. has accepted custody of the waste material listed above and hereby certifies that the waste material has been treated by a GAC Mobile Treatment Unit.

Name: Bradley A. Morris **Date:** 6-4-07
Bradley A. Morris, President
Excalibur Environmental Services, Inc.

APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES
MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX B - CONTINUED

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged only if the well screen did not bracket the water table. Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon® lined lids and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and delivered via courier to Pace Analytical, Inc. in Charlotte, North Carolina for analysis.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-1

Well Diameter (D): 2 inch of 31.00 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 28.90 feet
Total Well Depth (TWD) 31.00 feet
Length of Water Column (LWC=TWD-DGW) 2.10 feet

1 Casing Volume (CV = LWC X C) = _____ X 0.17 = _____ gals
3 Casing Volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1330							
pH (s.u.)	5.34							
Specific Cond. (µmhos/cm)	76.0							
Water Temperature (°C)	19.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy							
Dissolved Oxygen Readings (mg/L)	5.32							

Remarks: Well sampled on 5/29/07 at 1330.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-2

Well Diameter (D): 2 inch of 35.00 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: **0.26** feet
Depth to Ground Water (DGW) 25.36 feet
Total Well Depth (TWD) 35.00 feet
Length of Water Column (LWC=TWD-DGW) 9.64 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (µmhos/cm)								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen Readings (mg/L)								

Remarks: Petroleum free product present. Well not sampled. Water level has been corrected for free product thickness using a density of 0.70 g/cc.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

pH strips

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-2D

Well Diameter (D): 2 inch of 54.50 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A Feet
Depth to Ground Water (DGW) 27.25 Feet
Total Well Depth (TWD) 54.50 Feet
Length of Water Column (LWC=TWD-DGW) 27.25 Feet

1 Casing Volume (CV = LWC X C) = 27.25 X 0.17 = 4.63 gals
3 Casing Volume 3 X CV = 13.89 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 15 gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0	5	10	15				
Time (military)	1350	1401	1411	1430				
pH (s.u.)	5.67	5.93	6.08	6.10				
Specific Cond. (µmhos/cm)	99.5	127.5	125.3	128.3				
Water Temperature (°C)	20.5	19.9	21.3	21.1				
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Oxygen Readings (mg/L)	3.64							

Remarks: Well sampled on 5/29/07 at 1430.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-3R

Well Diameter (D): 2 inch of 32.35 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.83 feet
Total Well Depth (TWD) 32.40 feet
Length of Water Column (LWC=TWD-DGW) 7.57 feet

1 Casing Volume (CV = LWC X C) = _____ X 0.17 = _____ gals
3 Casing Volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1225							
pH (s.u.)	5.15							
Specific Cond. (µmhos/cm)	30.1							
Water Temperature (°C)	20.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Slight							
Dissolved Oxygen Readings (mg/L)	2.02							

Remarks: Well sampled on 5/29/07 at 1225.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-4

Well Diameter (D): 2 inch of 29.50 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.71 feet
Total Well Depth (TWD) 29.50 feet
Length of Water Column (LWC=TWD-DGW) 4.79 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1320							
pH (s.u.)	5.00							
Specific Cond. (µmhos/cm)	40.6							
Water Temperature (°C)	22.6							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	0.69							

Remarks: Well sampled on 5/29/07 at 1320.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-5

Well Diameter (D): 2 inch of 29.00 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.41 feet
Total Well Depth (TWD) 29.00 feet
Length of Water Column (LWC=TWD-DGW) 4.59 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1305							
pH (s.u.)	5.50							
Specific Cond. (µmhos/cm)	118.2							
Water Temperature (°C)	22.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Slight							
Dissolved Oxygen Readings (mg/L)	0.60							

Remarks: Well sampled on 5/29/07 at 1305.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-6

Well Diameter (D): 2 inch of 29.50 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: **0.63** feet
Depth to Ground Water (DGW) 25.89 feet
Total Well Depth (TWD) 29.50 feet
Length of Water Column (LWC=TWD-DGW) 3.61 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (µmhos/cm)								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen Readings (mg/L)								

Remarks: Petroleum free product present. Well not sampled. Water level has been corrected for free product thickness using a density of 0.70 g/cc.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH strips			
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-7

Well Diameter (D): 2 inch of 32.80 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 26.48 feet
Total Well Depth (TWD) 32.80 feet
Length of Water Column (LWC=TWD-DGW) 6.32 feet

1 Casing Volume (CV = LWC X C) = _____ X 0.17 = _____ gals
3 Casing Volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1050							
pH (s.u.)	5.65							
Specific Cond. (µmhos/cm)	79.4							
Water Temperature (°C)	21.0							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	3.16							

Remarks: Well sampled on 5/29/07 at 1050.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-8

Well Diameter (D): 2 inch of 29.80 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 23.09 feet
Total Well Depth (TWD) 29.80 feet
Length of Water Column (LWC=TWD-DGW) 6.71 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1055							
pH (s.u.)	4.85							
Specific Cond. (µmhos/cm)	34.6							
Water Temperature (°C)	22.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	1.89							

Remarks: Well sampled on 5/29/07 at 1055.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-9

Well Diameter (D): 2 inch of 30.70 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.22 feet
Total Well Depth (TWD) 30.70 feet
Length of Water Column (LWC=TWD-DGW) 6.48 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1250							
pH (s.u.)	5.06							
Specific Cond. (µmhos/cm)	37.4							
Water Temperature (°C)	20.6							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	5.69							

Remarks: Well sampled on 5/29/07 at 1250.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		pH strips	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	
Conductivity Meter serial no.	97A0751AD	YSI 30/10	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-10

Well Diameter (D): 2 inch of 30.10 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.32 feet
Total Well Depth (TWD) 30.10 feet
Length of Water Column (LWC=TWD-DGW) 5.78 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1445							
pH (s.u.)	4.81							
Specific Cond. (µmhos/cm)	58.0							
Water Temperature (°C)	22.6							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy							
Dissolved Oxygen Readings (mg/L)	2.27							

Remarks: Well sampled on 5/29/07 at 1445.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		pH strips	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	
Conductivity Meter serial no.	97A0751AD	YSI 30/10	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-11

Well Diameter (D): 2 inch of 31.00 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) NA feet
Total Well Depth (TWD) 31.00 feet
Length of Water Column (LWC=TWD-DGW) _____ feet

1 Casing Volume (CV = LWC X C) = _____ X 0.17 = _____ gals
3 Casing Volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling N/A gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (µmhos/cm)								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen Readings (mg/L)								

Remarks: Well covered by debris and unable to be sampled.

D H E C

PROMOTE PROTECT PROSPER

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-12

Well Diameter (D): 2 inch of 30.15 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 25.93 feet
Total Well Depth (TWD) 30.90 feet
Length of Water Column (LWC=TWD-DGW) 4.97 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling ____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1240							
pH (s.u.)	4.92							
Specific Cond. (µmhos/cm)	101.0							
Water Temperature (°C)	22.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	2.19							

Remarks: Well sampled on 5/29/07 at 1240.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.	pH strips	Conductivity Meter serial no.	YSI 30/10 97A0751AD
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-13

Well Diameter (D): 2 inch of 33.15 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.20 feet
Total Well Depth (TWD) 33.20 feet
Length of Water Column (LWC=TWD-DGW) 9.00 feet

1 Casing Volume (CV = LWC X C) = ____ X 0.17 = ____ gals
3 Casing Volume 3 X CV = ____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling ____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1215							
pH (s.u.)	5.17							
Specific Cond. (µmhos/cm)	56.5							
Water Temperature (°C)	21.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Slight							
Dissolved Oxygen Readings (mg/L)	1.13							

Remarks: Well sampled on 5/29/07 at 1215.

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		pH strips	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	
Conductivity Meter serial no.	97A0751AD	YSI 30/10	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-14

Well Diameter (D): 2 inch of 31.70 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.22 feet
Total Well Depth (TWD) 32.0 feet
Length of Water Column (LWC=TWD-DGW) 7.78 feet

1 Casing Volume (CV = LWC X C) = _____ X 0.17 = _____ gals
3 Casing Volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1145							
pH (s.u.)	5.30							
Specific Cond. (µmhos/cm)	70.9							
Water Temperature (°C)	22.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	0.73							

Remarks: Well sampled on 5/29/07 at 1145.

D H E C
PROMOTE PROTECT PROSPER

Field Data Information Sheet for Ground-Water Sampling
Division of Underground Storage Tank Management

Date (mm/dd/yy): May 29, 2007
Field Personnel: Terence Livingston
General Weather Conditions: Sunny

Ambient Air Temperature: 30 °C

Quality Assurance

pH Meter serial no.		pH strips	
Conductivity Meter serial no.	97A0751AD	YSI 30/10	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Former Ryder Truck Terminal
Facility ID#: UST Permit #11929 **Well #:** MW-15

Well Diameter (D): 2 inch of 33.41 feet

Conversion factor (C): 3.14 X $(D/2)^2$ for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness: N/A feet
Depth to Ground Water (DGW) 24.41 feet
Total Well Depth (TWD) 33.50 feet
Length of Water Column (LWC=TWD-DGW) 9.09 feet

1 Casing Volume (CV = LWC X C) = _____ X 0.17 = _____ gals
3 Casing Volume 3 X CV = _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							
Time (military)	1130							
pH (s.u.)	4.93							
Specific Cond. (µmhos/cm)	48.1							
Water Temperature (°C)	23.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy							
Dissolved Oxygen Readings (mg/L)	0.38							

Remarks: Well sampled on 5/29/07 at 1130.

APPENDIX C

LABORATORY DATA SHEETS

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June 13, 2007

Mr. Trevor Benton
Bunnell-Lammons Engineering
6004 Ponders Ct.
Greenville, SC 29642

RE: Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Dear Mr. Benton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2007. 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 Charlotte laboratory unless otherwise footnoted.

The results relate only to samples in this report.

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

Sincerely,

Andy Stevens
andy.stevens@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450675 Project Sample Number: 92145593-001 Date Collected: 05/29/07 13:30
Client Sample ID: MW-1 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:11	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	95-47-6		
Toluene-d8 (S)	99	%		1.0	06/01/07 01:11	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		1.0	06/01/07 01:11	MCK	460-00-4		
Dibromofluoromethane (S)	104	%		1.0	06/01/07 01:11	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		1.0	06/01/07 01:11	MCK	17060-07-0		

Date: 06/13/07

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450725 Project Sample Number: 92145593-002 Date Collected: 05/29/07 12:25
Client Sample ID: MW-3R Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Semivolatiles									
EDB and DBCP in Water	Method: EPA 8011								
1,2-Dibromoethane (EDB)	0.51	ug/l	0.020	1.0	06/12/07 11:30	RCS1	106-93-4		
1-Chloro-2-bromopropane (S)	99	%		1.0	06/12/07 11:30	RCS1	301-79-56		
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	48.	ug/l	5.0	1.0	06/02/07 01:18	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/02/07 01:18	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/02/07 01:18	MCK	1634-04-4		
Naphthalene	140	ug/l	5.0	1.0	06/02/07 01:18	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/02/07 01:18	MCK	108-88-3		
m&p-Xylene	31.	ug/l	10.	1.0	06/02/07 01:18	MCK			
o-Xylene	78.	ug/l	5.0	1.0	06/02/07 01:18	MCK	95-47-6		
Toluene-d8 (S)	105	%		1.0	06/02/07 01:18	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	06/02/07 01:18	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		1.0	06/02/07 01:18	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	119	%		1.0	06/02/07 01:18	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450733 Project Sample Number: 92145593-003 Date Collected: 05/29/07 13:20
Client Sample ID: MW-4 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:27	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	95-47-6		
Toluene-d8 (S)	101	%		1.0	06/01/07 01:27	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		1.0	06/01/07 01:27	MCK	460-00-4		
Dibromofluoromethane (S)	102	%		1.0	06/01/07 01:27	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		1.0	06/01/07 01:27	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450741 Project Sample Number: 92145593-004 Date Collected: 05/29/07 13:05
Client Sample ID: MW-5 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:43	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	95-47-6		
Toluene-d8 (S)	100	%		1.0	06/01/07 01:43	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		1.0	06/01/07 01:43	MCK	460-00-4		
Dibromofluoromethane (S)	103	%		1.0	06/01/07 01:43	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		1.0	06/01/07 01:43	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450758 Project Sample Number: 92145593-005 Date Collected: 05/29/07 10:50
Client Sample ID: MW-7 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:59	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	95-47-6		
Toluene-d8 (S)	100	%		1.0	06/01/07 01:59	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	06/01/07 01:59	MCK	460-00-4		
Dibromofluoromethane (S)	105	%		1.0	06/01/07 01:59	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		1.0	06/01/07 01:59	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450790 Project Sample Number: 92145593-006 Date Collected: 05/29/07 10:55
Client Sample ID: MW-8 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 02:15	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	95-47-6		
Toluene-d8 (S)	101	%		1.0	06/01/07 02:15	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		1.0	06/01/07 02:15	MCK	460-00-4		
Dibromofluoromethane (S)	105	%		1.0	06/01/07 02:15	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		1.0	06/01/07 02:15	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450808 Project Sample Number: 92145593-007 Date Collected: 05/29/07 12:50
Client Sample ID: MW-9 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 02:31	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	95-47-6		
Toluene-d8 (S)	100	%		1.0	06/01/07 02:31	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		1.0	06/01/07 02:31	MCK	460-00-4		
Dibromofluoromethane (S)	106	%		1.0	06/01/07 02:31	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		1.0	06/01/07 02:31	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450816 Project Sample Number: 92145593-008 Date Collected: 05/29/07 14:45
Client Sample ID: MW-10 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 02:47	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	95-47-6		
Toluene-d8 (S)	101	%		1.0	06/01/07 02:47	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		1.0	06/01/07 02:47	MCK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	06/01/07 02:47	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		1.0	06/01/07 02:47	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450824 Project Sample Number: 92145593-009 Date Collected: 05/29/07 12:40
Client Sample ID: MW-12 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 03:03	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 03:03	MCK	100-41-4		
Methyl-tert-butyl ether	11.	ug/l	5.0	1.0	06/01/07 03:03	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 03:03	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 03:03	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 03:03	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 03:03	MCK	95-47-6		
Toluene-d8 (S)	101	%		1.0	06/01/07 03:03	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	06/01/07 03:03	MCK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	06/01/07 03:03	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		1.0	06/01/07 03:03	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450832 Project Sample Number: 92145593-010 Date Collected: 05/29/07 14:30
Client Sample ID: MW-2D Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 03:19	MCK			
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	95-47-6		
Toluene-d8 (S)	102	%		1.0	06/01/07 03:19	MCK	2037-26-5		
4-Bromofluorobenzene (S)	102	%		1.0	06/01/07 03:19	MCK	460-00-4		
Dibromofluoromethane (S)	103	%		1.0	06/01/07 03:19	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		1.0	06/01/07 03:19	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450840 Project Sample Number: 92145593-011 Date Collected: 05/29/07 12:15
Client Sample ID: MW-13 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Semivolatiles									
EDB and DBCP in Water	Method: EPA 8011								
1,2-Dibromoethane (EDB)	0.62	ug/l	0.020	1.0	06/12/07 11:38	RCS1	106-93-4		
1-Chloro-2-bromopropane (S)	106	%		1.0	06/12/07 11:38	RCS1	301-79-56		
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	160	ug/l	10.	2.0	06/01/07 05:45	MCK	71-43-2		
Ethylbenzene	ND	ug/l	10.	2.0	06/01/07 05:45	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	10.	2.0	06/01/07 05:45	MCK	1634-04-4		
Naphthalene	170	ug/l	10.	2.0	06/01/07 05:45	MCK	91-20-3		
Toluene	ND	ug/l	10.	2.0	06/01/07 05:45	MCK	108-88-3		
m&p-Xylene	39.	ug/l	20.	2.0	06/01/07 05:45	MCK			
o-Xylene	160	ug/l	10.	2.0	06/01/07 05:45	MCK	95-47-6		
Toluene-d8 (S)	101	%		1.0	06/01/07 05:45	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		1.0	06/01/07 05:45	MCK	460-00-4		
Dibromofluoromethane (S)	106	%		1.0	06/01/07 05:45	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		1.0	06/01/07 05:45	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450857 Project Sample Number: 92145593-012 Date Collected: 05/29/07 11:45
Client Sample ID: MW-14 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Semivolatiles									
EDB and DBCP in Water	Method: EPA 8011								
1,2-Dibromoethane (EDB)	0.26	ug/l	0.020	1.0	06/12/07 12:03	RCS1	106-93-4		
1-Chloro-2-bromopropane (S)	87	%		1.0	06/12/07 12:03	RCS1	301-79-56		
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	220	ug/l	25.	5.0	06/01/07 06:05	MCK	71-43-2		
Ethylbenzene	550	ug/l	25.	5.0	06/01/07 06:05	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	25.	5.0	06/01/07 06:05	MCK	1634-04-4		
Naphthalene	250	ug/l	25.	5.0	06/01/07 06:05	MCK	91-20-3		
Toluene	ND	ug/l	25.	5.0	06/01/07 06:05	MCK	108-88-3		
m&p-Xylene	ND	ug/l	50.	5.0	06/01/07 06:05	MCK			
o-Xylene	700	ug/l	25.	5.0	06/01/07 06:05	MCK	95-47-6		
Toluene-d8 (S)	102	%		1.0	06/01/07 06:05	MCK	2037-26-5		
4-Bromofluorobenzene (S)	102	%		1.0	06/01/07 06:05	MCK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	06/01/07 06:05	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		1.0	06/01/07 06:05	MCK	17060-07-0		

Date: 06/13/07

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450899 Project Sample Number: 92145593-013 Date Collected: 05/29/07 11:30
Client Sample ID: MW-15 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Semivolatiles									
EDB and DBCP in Water	Method: EPA 8011								
1,2-Dibromoethane (EDB)	0.45	ug/l	0.020	1.0	06/12/07 12:12	RCS1	106-93-4		
1-Chloro-2-bromopropane (S)	116	%		1.0	06/12/07 12:12	RCS1	301-79-56		
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	190	ug/l	5.0	1.0	06/02/07 00:54	MCK	71-43-2		
Ethylbenzene	21.	ug/l	5.0	1.0	06/02/07 00:54	MCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/02/07 00:54	MCK	1634-04-4		
Naphthalene	390	ug/l	50.	10.0	06/02/07 00:54	MCK	91-20-3		
Toluene	12.	ug/l	5.0	1.0	06/02/07 00:54	MCK	108-88-3		
m&p-Xylene	110	ug/l	10.	1.0	06/02/07 00:54	MCK			
o-Xylene	130	ug/l	5.0	1.0	06/02/07 00:54	MCK	95-47-6		
Toluene-d8 (S)	105	%		1.0	06/02/07 00:54	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	06/02/07 00:54	MCK	460-00-4		
Dibromofluoromethane (S)	108	%		1.0	06/02/07 00:54	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	118	%		1.0	06/02/07 00:54	MCK	17060-07-0		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

QC Batch: 191077 — Analysis Method: EPA 8011
QC Batch Method: EPA 504.1 — Analysis Description: EDB and DBCP in Water
Associated Lab Samples: 928450725 928450840 928450857 928450899

METHOD BLANK: 928492115
Associated Lab Samples: 928450725 928450840 928450857 928450899

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dibromoethane (EDB)	ug/l	ND	0.020	
1-Chloro-2-bromopropane (S)	%	87		

LABORATORY CONTROL SAMPLE & LCSD: 928492123 928492131

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	0.2500	0.2529	0.2418	101	97	4	
1-Chloro-2-bromopropane (S)					115	106		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928492149 928492156

Parameter	Units	928449628 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	0	0.2500	0.1879	0.1999	75	80	6	
1-Chloro-2-bromopropane (S)						77	86		

SAMPLE DUPLICATE: 928492164

Parameter	Units	928449636 Result	DUP Result	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	ND	ND	NC	
1-Chloro-2-bromopropane (S)	%	107	108		

Date: 06/13/07

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QUALITY CONTROL DATA

Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

QC Batch: 190284 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 928450675 928450725 928450733 928450741 928450758 928450790 928450808 928450816 928450824 928450832 928450840 928450857 928450899

METHOD BLANK: 928452184
Associated Lab Samples: 928450675 928450725 928450733 928450741 928450758 928450790 928450808 928450816 928450824 928450832 928450840 928450857 928450899

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	102		
Dibromofluoromethane (S)	%	102		
1,2-Dichloroethane-d4 (S)	%	105		

LABORATORY CONTROL SAMPLE: 928452192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	52.87	106	
Ethylbenzene	ug/l	50.00	50.07	100	
Methyl-tert-butyl ether	ug/l	50.00	57.46	115	
Naphthalene	ug/l	50.00	65.22	130	
Toluene	ug/l	50.00	52.53	105	
m&p-Xylene	ug/l	100.00	103.0	103	
o-Xylene	ug/l	50.00	51.05	102	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				100	
Dibromofluoromethane (S)				102	
1,2-Dichloroethane-d4 (S)				102	

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QUALITY CONTROL DATA

Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928454677 928454685

Parameter	Units	928450824 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	61.50	62.80	123	126	2	
Toluene	ug/l	0.1817	50.00	59.15	60.37	118	120	2	
Toluene-d8 (S)						100	100		
4-Bromofluorobenzene (S)						95	102		
Dibromofluoromethane (S)						100	102		
1,2-Dichloroethane-d4 (S)						101	105		

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Lab Project Number: 92145593
Client Project ID: FORMER RYDER TRUCK J07-101-11

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

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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

1068808

Section A
Required Client Information:

Company:	BLE
Address:	6004 Ponders Ct Greenville, SC 29615
Email To:	trevor@blecorp.com
Phone:	864-288-1265
Fax:	
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Trevor Benton
Copy To:	Same
Purchase Order No.:	
Project Name:	Former Ryder Truck
Project Number:	J07-1010-11

Section C
Invoice Information:

Attention:	Same
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	AJS
Pace Profile #:	104-13

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

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 92145593

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	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	8260B BTEX+NAPS MTBE+1,2-DCA	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			5/29	1330						3						✓			92845075
2	~~MW-2~~												6						✓	✓		
3	MW-3R	↓	↓			↓	1225						6						✓	✓		[illegible]
4	MW-4						1320						3						✓			[illegible]
5	MW-5						1305						3						✓			[illegible]
6	~~MW-6~~						—						3						✓			
7	MW-7						1050						3						✓			[illegible]
8	MW-8						1055						3						✓			[illegible]
9	MW-9						1250						3						✓			[illegible]
10	MW-10						1445						3						✓			0816
11	~~MW-11~~												3						✓			
12	MW-12	↓	↓			↓	1240						3						✓			0824

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / BLE	5/30/07	1700	B. Feum	5/31/07	930	1.2	Y	Y	Y

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Terence Livingston

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 5/29/07

*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.06, 2-Feb-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company: BLE
Address: 6004 Ponders Ct
Greenville, SC 29615
Email To: trevor@blecorp.com
Phone: 864-288-1265 Fax:
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: Trevor Benton
Copy To: SAME
Purchase Order No.:
Project Name: Former Ryder Truck
Project Number: 307-1010-11

Section C Invoice Information:

Attention: SAME
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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW WT
WATER	WW P
WASTE WATER	SL
PRODUCT	OL
SOIL/SOLID	WP
OIL	AR
WIPE	OT
AIR	TS
OTHER	
TISSUE	

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	Y/N	Analysis Test: 8260B BTEX+MTBE+1,2 DCA	Analysis Test: 8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13	WT	G			5/29	1215		6				6						✓	✓		0830
2	MW-14	↓	↓				1145		6				6						✓	✓		0831
3	MW-15	↓	↓				1180		6				6						✓	✓		0832
4	MW-2D	WT	G			↓	1430		3				3						✓			
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] BLE	5/30/07	1700	B. Flenn	5/31/07	930	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TERENCE LIVINGSTON

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/29/07

ORIGINAL

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

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

AUG 19 2008

MS LLOYD DAUTEN
4925 COACH HILL DR
GREENVILLE SC 29615

Re: Groundwater sampling directive
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA # 33297
Release reported February 25, 1997
Greenville County

Dear Ms. Dauten:

The Underground Storage Tank (UST) Program recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering (BLE), Inc. as your contractor. The next appropriate scope of work at the site is comprehensive groundwater sampling of all monitoring wells.

All existing 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, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

Cost Agreement # 33297 has been approved in the amount shown on the enclosed cost agreement form for the sampling. Your contractor should submit sampling results to the Program in an assessment 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 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.

UST DOCKET
3 Tech

BLE, Inc. 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 # 11929. 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
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615
Technical file (w/enc)

Approved Cost Agreement 33297

Facility: 11929 FORMER RYDER TERMINAL
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	1.0000	55.00	55.00
		D GROUNDWATER NO-PURGE	15.0000	35.00	525.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	16.0000	100.00	1,600.00
		BB 1,2-DCA	16.0000	10.75	172.00
		E LEAD	16.0000	20.00	320.00
		F EDB	16.0000	55.00	880.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	2.0000	90.00	180.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	4,312.00	646.80
			Total Amount		4,958.80

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF GROUNDWATER SAMPLING

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST APPROVAL # 33297

Prepared For

The Estate of Robert B. Vaughn
4 East Parker Road
Greenville, South Carolina 29611-3504

Prepared By

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615

October 21, 2008

BLE Project Number J08-1010-12

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

October 21, 2008

South Carolina Department of Health and Environmental Control
Southwestern SC Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report of Groundwater Sampling**
Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, Greenville County
UST Permit # 11929; CA # 33297
BLE Project No. J07-1010-12

Dear Mr. Abernathy:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has completed a groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated August 19, 2008. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 2395

TREVOR J. BENTON REGISTERED No. 2395 SOUTH CAROLINA PROFESSIONAL GEOLOGIST 10/21/08

cc: Mr. Allen Vaughn, 4 East Parker Road, Greenville, SC 29611-1916.

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, and 2007 by BLE to define the extent of petroleum contamination and to remove free-product concentrations from two monitoring wells (MW-4 and MW-6) at the site.

GROUNDWATER SAMPLING

Sixteen groundwater monitoring wells (MW-1, MW-2, MW-2D, MW-3R, and MW-4 through MW-15) are present at the site. Groundwater levels were measured on September 9, 2008 (Table 1). A groundwater elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown as Figure 2.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling. Therefore, only MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix B. The samples were delivered via courier to Genapure Analytical Services in Boca Raton, Florida for analysis (SC Certification #96031001) of benzene, toluene, ethylbenzene, xylenes (BTEX), naphthalene, methyl-tertiary-butyl-ether (MTBE), and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B; 1,2-dibromoethane (EDB) by EPA Method 8011; and total lead by EPA Method 6010B. Monitoring well sampling logs and procedures are included in Appendix B. The laboratory data sheets are provided in Appendix B. Concentrations of the chemicals of concern (CoC) for each well is shown on Figure 2. Additionally, historical groundwater laboratory analytical data is provided in Table 2.

Purge water generated during the groundwater sampling event was contained in a sealed 55-gallon drum. These wastes were disposed of on-site after analytical results indicated that CoCs were not detected above the laboratory method detection limit.

GROUNDWATER SAMPLING RESULTS

Free-phase petroleum product was detected in monitoring wells MW-2 (0.29 feet), MW-4 (0.96 feet), MW-6 (0.42 feet), and MW-15 (0.29 feet) and therefore were not sampled. Additionally, MW-7, MW-8, and MW-11 were inaccessible (locked gate at abandoned facility) and were not able to be sampled at this time. Of the nine groundwater samples collected for laboratory analysis,

three wells (MW-3R, MW-13, and MW-14) detected petroleum hydrocarbons above South Carolina Risk-Based Screening Levels[1] (RBSLs). Benzene, naphthalene, and EDB were detected above RBSLs in MW-3R, MW-13, and MW-14. Additionally, petroleum hydrocarbons detected above the laboratory Method Detection Limit (MDL), but at levels below RBSLs include toluene (MW-14), ethylbenzene (MW-14), xylenes (MW-3R, MW-13, and MW-14), and MTBE (MW-12). Additionally, monitoring wells MW-1, MW-3R, MW-9, MW-10, and MW-12 detected concentrations of total lead above RBSLs. Based on the laboratory results, concentrations of the detected petroleum hydrocarbons are mainly confined to the source area or slightly downgradient of the source area. The source of the free-product in MW-4 is most likely associated with a 1,000-gallon fuel oil UST that is directly adjacent to the well. At this time, it is unknown if this UST is still in use. The results of the groundwater samples are summarized in Table 2, and are shown on Figure 2. Laboratory data sheets are provided in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Free-phase petroleum product is present in monitoring wells MW-2, MW-4, MW-6, and MW-15. MW-15 is a sidegradient monitoring well located on the west side of the former gasoline/diesel UST basin. This is the first occurrence of free-product in this well. Monitoring well MW-4 is located in the area of a 1,000-gallon fuel oil UST. CoCs were detected in MW-4 during the late 1990's and early 2000's, but had since decreased below laboratory detection limits. The emergence of free-product in MW-4 may be attributed to the decline of groundwater levels from recent drought conditions in this region. Increases in free-product and/or dissolved phase concentrations are common at sites with declining water tables. As the water table falls, petroleum hydrocarbons previously trapped as a residual phase can become remobilized and enter into wells.

Since moderate thicknesses of free-product are present in monitoring wells MW-2, MW-4, MW-6, and MW-15, we recommend that two additional free-product extraction/monitoring wells be installed at the site. One well should be installed on the eastern side of the former gasoline/diesel UST basin to evaluate for the presence of free-product in this area. The second well should be installed approximately 25 feet southeast of MW-4. These wells can serve as supplemental free-product extraction points and groundwater sampling locations. The wells should be installed with 20-foot (minimum) screens to provide maximum vapor removal from the vadose zone. After installation of the new wells, we recommend a series of two additional AFVR events be conducted to: 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface. The events should be spaced approximately one month apart to allow the wells to return to equilibrium. In addition, BLE recommends a comprehensive groundwater sampling event be conducted approximately one month after completion of the final AFVR event.

The type of petroleum contamination at the site appears to be a mixture of gasoline, diesel, and fuel/waste oil. Due to the presence of fuel/waste oil, we recommend the addition of the 8 RCRA metals to the sampling matrix.

---

[1] South Carolina Risk-Based Corrective Action for Petroleum Releases, Bureau of Land and Waste Management, Underground Storage Tank Program, May 15, 2001.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #33297
BLE Project No. J08-1010-12

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	GW Depth (bgs)	GW Elevation	Well Depth (bgs)	Screen Depth	Screen Elevation
MW-1	100.70	98.48	31.42	29.21	69.28	31.0	21.0 - 31.0	77.5 - 67.5
MW-2*	100.10	100.54	28.45	28.89	71.65	35.0	25.0 - 35.0	75.5 - 65.5
MW-2D	99.29	99.76	30.34	30.82	68.95	54.5	49.5 - 54.5	50.3 - 45.3
MW-3	Well abandoned December 5, 2005							
MW-3R	99.00	99.57	28.02	28.59	70.98	32.4	18.5 - 28.5	81.1 - 71.1
MW-4*	102.67	102.91	27.94	28.18	74.73	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	27.35	27.59	74.13	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	28.39	28.77	73.35	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	Not measured			32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	Not measured			29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	27.49	27.88	74.77	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	27.32	27.32	77.35	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	Not measured			31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	28.99	29.29	72.39	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	27.41	27.74	71.21	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	28.20	28.73	71.10	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	28.55	28.74	71.84	33.5	23.3 - 33.3	77.3 - 67.3

NOTES:
Groundwater levels were measured on September 9, 2008
Measurements are in feet; elevations are relative to an arbitrary site datum.
*Petroleum free product was measured in MW-2 (0.29'), MW-4 (0.96'), MW-6 (0.42'), & MW-15 (0.29') on 8/29/2008
Groundwater elevation data for MW-2, MW-4, MW-6, and MW-15 has been corrected for free-product thickness using a density of 0.70 g/cc.
btoc = below top of casing
bgs = below ground surface

Prepared By: TDL
Checked By: TDB

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #33297
BLE Project No. J08-1010-12

Compound	EPA Method	Units	RBSL	MW-1 Date Sampled										MW-2 Date Sampled										MW-2D Date Sampled								
				12/13/1996	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/3/2004	1/20/2005	2/23 & 3/13/2006	5/29/2007	9/9/2008	12/13/1996	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23 & 3/13/2006	5/29/2007	9/9/2008	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/3/2004	1/20/2005	2/23/2006	5/29/2007	9/9/2008
Petroleum Free Product	NA	feet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.7	1.25	1.75	1.92	1.01	0.23	NA	0.26	0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	8260B	µg/l	5	20.6	ND	2.6	ND	ND	ND	ND	ND	ND	ND	249	NT	NT	NT	NT	NT	NT	128	NT	NT	2.6	3.5	ND	1.4	ND	ND	ND	ND	ND
Toluene	8260B	µg/l	1,000	1.74	ND	ND	NE	ND	ND	ND	ND	ND	ND	22.5	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	8260B	µg/l	700	2.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.5	NT	NT	NT	NT	NT	NT	6.8	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	8260B	µg/l	10,000	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	363	NT	NT	NT	NT	NT	NT	170	NT	NT	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.1	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	8260B	µg/l	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	900	NT	NT	NT	NT	NT	NT	240	NT	NT	12.5	4.3	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	8260B	µg/l	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	0.83	NT	NT	ND	NT	NT	NT	NT	ND	ND	NT	ND
EDB	8011	µg/l	0.05	NT	ND	NT	NT	NT	NT	NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	0.83	NT	NT	ND	NT	NT	NT	NT	ND	ND	NT	ND
Acenaphthene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	14.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	29.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	49.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	29.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	220	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	6010B	µg/l	15	NT	48.0	14.0	NT	ND	NT	NT	NT	NT	35.3	NT	NT	NT	NT	NT	NT	NT	260,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Filtered Lead	7421	µg/l	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ferrous Iron	3500D	µg/l	NE	NT	ND	ND	243	ND	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
Nitrate	9056	mg/l	NE	NT	0.62	0.71	ND	0.87	NT	0.94	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	9056	mg/l	NE	NT	12.57	7.3	11.8	4.1	NT	4.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	2.04	ND	NT	ND	NT	NT	NT
Dissolved Oxygen	field test	mg/l	NE	NT	3.6	2.25	NT	NT	NT	3.40	6.95	3.32	1.81	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.93	NT	NT	16.81	16.0	NE	8.8	NT	12.00	NT	NT
																								NT	6.2	2.92	NT	NT	5.81	5.75	3.64	2.49

Compound	EPA Method	Units	RBSL	MW-3 Date Sampled							MW-3R Date Sampled			MW-4 Date Sampled										MW-5 Date Sampled								
				2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	2/24 & 3/13/2006	5/29/2007	9/9/2008	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	5/29/2007	9/9/2008	2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	5/29/2007	9/5/2008
Petroleum Free Product	NA	feet	NA	NA	0.01	0.04	0.17	*NA	*NA	A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	8260B	µg/l	5	62.8	NT	NT	NT	NT	NT	A	40.0	49.0	23.3	2.2	ND	ND	ND	ND	ND	ND	ND	NT	16.5	ND	ND	25.2	23.4	11.0	ND	ND	ND	ND
Toluene	8260B	µg/l	1,000	6.41	NT	NT	NT	NT	NT	A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	11.5	4.0	ND	ND	ND	ND	ND
Ethylbenzene	8260B	µg/l	700	19.3	NT	NT	NT	NT	NT	A	ND	ND	ND	1.73	ND	ND	ND	ND	ND	ND	ND	NT	ND	1.13	ND	5.10	2.0	ND	ND	ND	ND	ND
Xylenes, Total	8260B	µg/l	10,000	193	NT	NT	NT	NT	NT	A	ND	ND	ND	150	10.6	21.5	ND	ND	ND	ND	ND	NT	6.83	6.26	ND	32.4	8.7	ND	ND	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	81	109	17.7	150	10.6	21.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	8260B	µg/l	25	186	NT	NT	NT	NT	NT	A	120	140	63.2	186	26.2	69.8	ND	ND	ND	ND	ND	NT	33.3	50.2	ND	5.0	ND	ND	ND	ND	ND	ND
1,2-DCA	8260B	µg/l	5	NT	NT	NT	NT	NT	NT	A	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
EDB	8011	µg/l	0.05	ND	NT	NT	NT	NT	NT	A	0.90	0.51	0.44	ND	NT	NT	NT	NT	ND	ND	NT	NT	ND	NT	NT	NT	NT	NT	ND	NT	NT	ND
Acenaphthene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	A	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	A	5.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	A	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	NT	A	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	NT	A	79.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	6010B	µg/l	15	ND	NT	NT	NT	NT	NT	A	4,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Filtered Lead	7421	µg/l	15	ND	NT	NT	NT	NT	NT	A	NT	NT	30.9	11.0	11.0	NT	ND	NT	NT	NT	NT	NT	58.9	70.9	NT	ND	NT	NT	NT	NT	NT	ND
Ferrous Iron	3500D	µg/l	NE	ND	NT	NT	NT	NT	NT	A	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate	9056	mg/l	NE	ND	NT	NT	NT	NT	NT	A	NT	NT	NT	ND	ND	158	ND	NT	NT	NT	NT	NT	300	ND	214	242	NT	NT	NT	NT	NT	NT
Sulfate	9056	mg/l	NE	2.75	NT	NT	NT	NT	NT	A	0.15	NT	NT	0.71	1.29	2.75	2.24	NT	1.66	NT	NT	NT	0.16	3.52	26.0	0.99	NT	0.31	NT	NT	NT
Dissolved Oxygen	field test	mg/l	NE	NT	3.4	NT	NT	NT	NT	A	1.2	NT	NT	3.26	3.69	ND	ND	NT	ND	NT	NT	2.86	1.92	0.69	NT	1.92	4.79	ND	ND	NT	1.70	NT	NT	NT
											0.59	2.62	1.31	NT	3.20	0.46	NT	NT	2.86	1.92	0.69	NT	NT	2.8	0.52	NT	NT	1.56	2.65	0.60	0.73

Compound	EPA Method	Units	RBSL	MW-6 Date Sampled										MW-7 Date Sampled							
				2/10/1998	3/29/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/23/2006	5/29/2007	9/9/2008	9/15/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/24/2006	9/9/2008
Petroleum Free Product	NA	feet	NA	NA	1.83	3.0	>3.0	2.19	1.72	1.54	0.63	0.42	NA	NA	NA	NA	NA	NA	NA
Benzene	8260B	µg/l	5	523	NT	NT	NT	NT	NT	NT	NT	NT	ND	12.9	6.2	ND	ND	ND	NT
Toluene	8260B	µg/l	1,000	1,670	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	NT
Ethylbenzene	8260B	µg/l	700	104	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	NT
Xylenes, Total	8260B	µg/l	10,000	434	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	NT
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	92.7	NT	NT	NT	NT	NT	NT	NT	NT	ND	11.6	4.0	ND	ND	ND	NT
Naphthalene	8260B	µg/l	25	409	NT	NT	NT	NT	NT	NT	NT	NT	ND	6.8	3.2	3.8	ND	ND	NT
1,2-DCA	8260B	µg/l	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	20.1	6.0	ND	ND	ND	NT
EDB	8011	µg/l	0.05	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
Acenaphthene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	6010B	µg/l	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	48.0	NT	ND	NT	NT	NT	NT
Filtered Lead	7421	µg/l	15	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
Ferrous Iron	3500D	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	2,200	269	ND	NT	NT	NT	NT
Nitrate	9056	mg/l	NE	ND	NT	NT	NT	NT	NT	NT	NT	NT	0.32	0.60	0.62	NT	NT	1.30	NT
Sulfate	9056	mg/l	NE	2.02	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND	NT	1.10	NT	NT
Dissolved Oxygen	field test	mg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	5.0	NT	NT	NT	4.02	1.98	NT

Notes:
µg/l = micrograms/l = approximate Parts Per Billion (ppb)
mg/l = milligrams/l = approximate Parts Per Million (ppm)
Shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = No Established Value for RBSL
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05

Prepared By: TDL
Checked By: TDB

TABLE 2 - CONTINUED

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #33297
BLE Project No. J07-1010-12

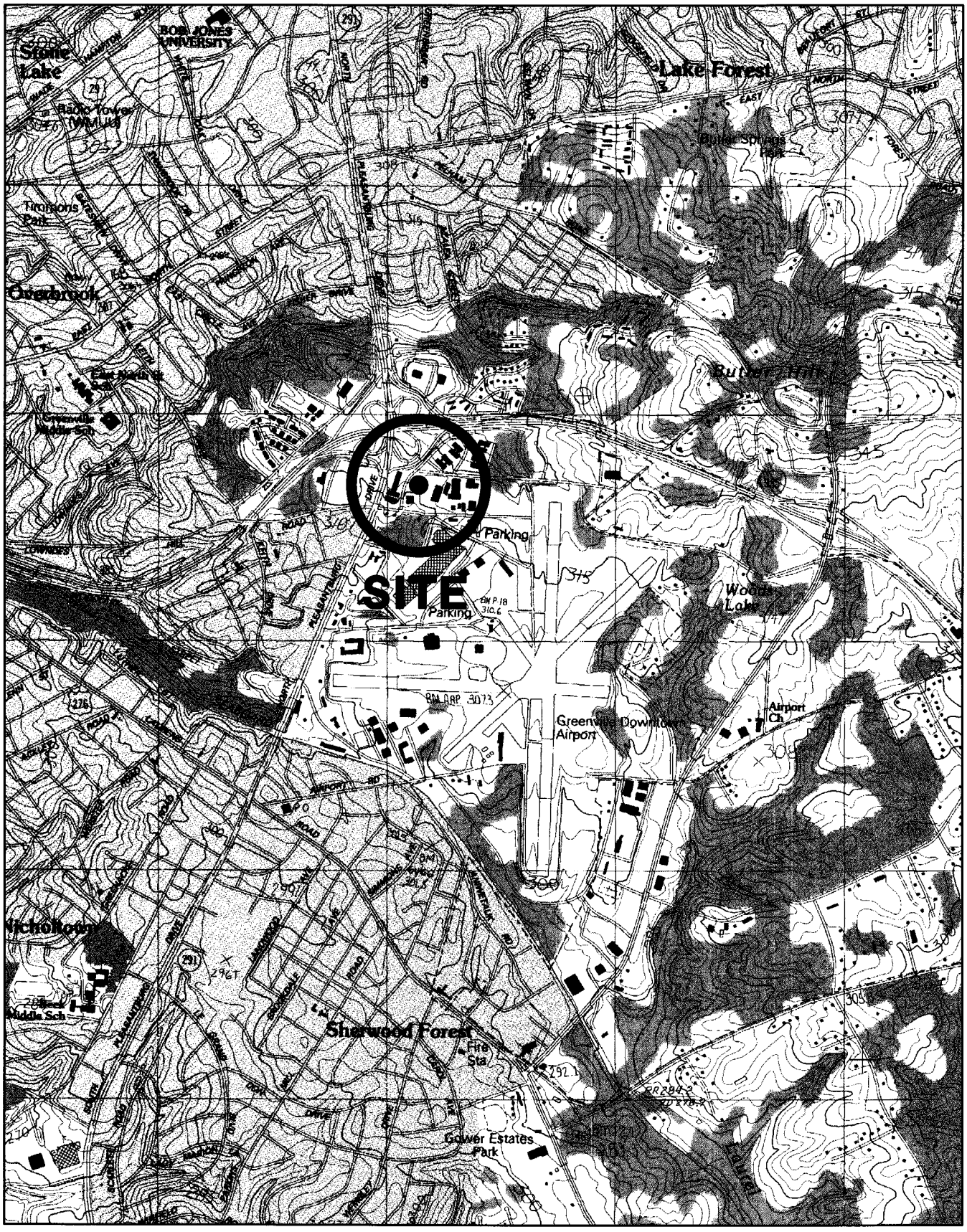
Compound	EPA Method	Units	RBSL	MW-8								MW-9					MW-10				
				Date Sampled								Date Sampled					Date Sampled				
Petroleum Free Product	NA	feet	NA	9/15/1999	7/5/2001	1/28/2003	2/2/2004	1/20/2005	2/24/2006	5/29/2007	9/9/2008	2/3/2004	1/20/2005	2/23/2006	5/29/2007	9/9/2008	2/2/2004	1/20/2005	2/24/2006	5/29/2007	9/9/2008
				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	8260B	µg/l	5	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	8260B	µg/l	1,000	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	8260B	µg/l	700	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	8260B	µg/l	10,000	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	8260B	µg/l	25	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	8260B	µg/l	5	NT	NT	NT	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EDB	8011	µg/l	0.05	NT	NT	NT	NT	ND	ND	NT	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND
Acenaphthalene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	6010B	µg/l	15	ND	NT	ND	NT	NT	NT	NT	NT	14.0	NT	NT	NT	459	ND	NT	NT	NT	420
Filtered Lead	7421	µg/l	15	NT	NT	NT	NT	ND	NT	NT	NT	NT	ND	NT	NT	NT	NT	ND	NT	NT	NT
Ferrous Iron	3500D	µg/l	NE	220	135	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate	9056	mg/l	NE	0.60	0.58	0.83	NT	0.64	NT	NT	NT	NT	0.78	NT	NT	NT	NT	0.85	NT	NT	NT
Sulfate	9056	mg/l	NE	ND	ND	3.10	NT	ND	NT	NT	NT	NT	ND	NT	NT	NT	NT	ND	NT	NT	NT
Dissolved Oxygen	field test	mg/l	NE	4.3	NT	NT	NT	4.62	3.78	1.89	NT	NT	3.98	4.95	5.69	4.56	NT	4.50	2.37	2.27	0.71

Compound	EPA Method	Units	RBSL	MW-11					MW-12			MW-13			MW-14			MW-15		
				Date Sampled					Date Sampled			Date Sampled			Date Sampled			Date Sampled		
Petroleum Free Product	NA	feet	NA	2/2/2004	1/20/2005	2/24/2006	5/29/2007	9/9/2008	2/24 & 3/13/2006	5/29/2007	9/9/2008	2/24 & 3/13/2006	5/29/2007	9/9/2008	2/24 & 3/13/2006	5/29/2007	9/9/2008	2/24 & 3/13/2006	5/29/2007	9/9/2008
				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29
Benzene	8260B	µg/l	5	ND	ND	ND	NT	NT	ND	ND	ND	100	160	77	160	220	82.4	100	190	NT
Toluene	8260B	µg/l	1,000	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	34.0	ND	3.81	8.0	12.0	NT
Ethylbenzene	8260B	µg/l	700	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	480	550	54.8	25.0	21	NT
Xylenes, Total	8260B	µg/l	10,000	ND	ND	ND	NT	NT	ND	ND	ND	110	199	101	620	700	67.1	160	240	NT
Methyl-tert-butyl-ether (MTBE)	8260B	µg/l	40	ND	ND	ND	NT	NT	6.1	11.0	11.8	ND	ND	ND	100	170	226	160	250	75	140	390	NT
Naphthalene	8260B	µg/l	25	ND	ND	ND	NT	NT	ND	ND	ND	100	170	226	160	250	75	140	390	NT
1,2-DCA	8260B	µg/l	5	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND	NT	NT	ND	NT	NT	NT
EDB	8011	µg/l	0.05	ND	ND	ND	NT	NT	ND	NT	ND	0.76	0.62	0.162	0.46	0.26	0.118	0.54	0.45	NT
Acenaphthalene	8270C	µg/l	NE	NT	NT	NT	NT	NT	ND	NT	NT	5.0	NT	NT	ND	NT	NT	ND	NT	NT
Fluorene	8270C	µg/l	NE	NT	NT	NT	NT	NT	ND	NT	NT	8.6	NT	NT	ND	NT	NT	7.4	NT	NT
Phenanthrene	8270C	µg/l	NE	NT	NT	NT	NT	NT	ND	NT	NT	8.7	NT	NT	ND	NT	NT	6.7	NT	NT
Naphthalene	8270C	µg/l	25	NT	NT	NT	NT	NT	ND	NT	NT	160	NT	NT	59.0	NT	NT	230	NT	NT
TPH (DRO)	8015B	µg/l	NE	NT	NT	NT	NT	NT	220	NT	NT	7,500	NT	NT	4,000	NT	NT	5,200	NT	NT
Lead	6010B	µg/l	15	5.0	NT	NT	NT	NT	NT	NT	24.5	NT	NT	ND	NT	NT	ND	NT	NT	NT
Filtered Lead	7421	µg/l	15	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ferrous Iron	3500D	µg/l	NE	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate	9056	mg/l	NE	NT	1.20	NT	NT	NT	5.5	NT	NT	0.025	NT	NT	ND	NT	NT	0.87	NT	NT
Sulfate	9056	mg/l	NE	NT	1.20	NT	NT	NT	1.1	NT	NT	10.0	NT	NT	1.9	NT	NT	1.7	NT	NT
Dissolved Oxygen	field test	mg/l	NE	NT	3.26	2.78	NT	NT	2.21	2.19	1.32	1.07	1.13	0.52	1.52	0.73	0.88	1.70	0.38	NT

Notes:
µg/l = micrograms/l = approximate Parts Per Billion (ppb)
mg/l = milligrams/l = approximate Parts Per Million (ppm)
Shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = No Established Values for RBSL
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05

Prepared By: TDL
Checked By: TDB

FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: AEH	DATE: 10-20-08	BLE INC.	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA	FIGURE
CHECKED: TJB	CAD: FORMERRTT-11SLM	BUNNELL-LAMMONS ENGINEERING, INC.		1
APPROVED:	JOB NO: J08-1010-12	6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430		

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES
MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX A - CONTINUED

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged only if the well screen did not bracket the water table. Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon® lined lids and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and delivered via courier to Pace Analytical, Inc. in Charlotte, North Carolina for analysis.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	09/09/08
Field Personnel	Terence Livingston & Ivan Iazziary
General weather Conditions	Sunny
Ambient Air Temperature (°C)	24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1

Well Diameter (D)	2	inch of	31.00	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	29.21	ft
Length of Water Colum (LWC = TWD-DGW)	1.79	ft

1 Casing Volume (LWC*C) =	1.79	X	.17	=	0.30 gals
3 Casing Volumes = 3 X	0.30		=		0.91 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	0905							
pH (s.u)	5.24							
Specific Conductivity	71.3							
Water Temperature (°C)	22.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	1.81							

Remarks: Well sampled on 9/9/08 at 0905.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.29 ft
Total Well Depth (TWD) 35.00 ft
Depth to Groundwater (DGW) 28.45 ft
Length of Water Colum (LWC = TWD-DGW) 6.55 ft
1 Casing Volume (LWC*C) = 6.55 X .17 = 1.11 gals
3 Casing Volumes = 3 X 1.11 = 3.34 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well contained 0.29' of free product and was not sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: 09/09/08
Field Personnel: Terence Livingston & Ivan Iazziary
General weather Conditions: Sunny
Ambient Air Temperature (°C): 24

Facility Name: Fmr Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	54.50	ft
Depth to Groundwater (DGW)	28.45	ft
Length of Water Colum (LWC = TWD-DGW)	26.05	ft
1 Casing Volume (LWC*C) = 26.05 X .17 =	4.43	gals
3 Casing Volumes = 3 X 4.43 =	13.29	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: 13.5 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0	4.5	9.0	13.5				
Time (military)	1010	1015	1019	1024				
pH (s.u)	5.66	5.98	6.05	5.87				
Specific Conductivity	125.8	147.3	125.5	123.9				
Water Temperature (°C)	20.7	20.7	20.0	20.0				
Turbidity (subjective: clear, slightly cloudy, cloudy)	clear	sli cloudy	clear	clear				
Dissolved Oxygen (mg/l)	2.49							

Remarks: Well was sampled on 9/9/08 at 1024.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-3R

Well Diameter (D) 2 inch of 32.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	32.40	ft
Depth to Groundwater (DGW)	30.34	ft
Length of Water Colum (LWC = TWD-DGW)	2.06	ft

1 Casing Volume (LWC*C) = 2.06 X .17 = 0.35 gals
3 Casing Volumes = 3 X 0.35 = 1.05 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	0920							
pH (s.u)	4.78							
Specific Conductivity	32.0							
Water Temperature (°C)	23.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	1.31							

Remarks: Well was sampled on 9/9/08 at 0920.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	09/09/08
Field Personnel	Terence Livingston & Ivan Iazziary
General weather Conditions	Sunny
Ambient Air Temperature (°C)	24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D)	2	inch of	29.50	feet(ft)	
conversion factor (C): 3.143*(D/2)^2					
for a 2 inch well C = 0.163					
for a 4 inch well C = 0.652					
*Free Product Thickness	0.96	ft			
Total Well Depth (TWD)	29.50	ft			
Depth to Groundwater (DGW)	27.94	ft			
Length of Water Colum (LWC = TWD-DGW)				1.56	ft
1 Casing Volume (LWC*C) =	1.56	X .17	=	0.27	gals
3 Casing Volumes = 3 X	0.27	=		0.80	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well contained 0.96' of free product and was not sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	09/09/08
Field Personnel	Terence Livingston & Ivan Iazziary
General weather Conditions	Sunny
Ambient Air Temperature (°C)	24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-5

Well Diameter (D)	2	inch of	29.00	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	29.00	ft
Depth to Groundwater (DGW)	27.35	ft
Length of Water Colum (LWC = TWD-DGW)	1.65	ft
1 Casing Volume (LWC*C) = 1.65 X .17 =	0.28	gals
3 Casing Volumes = 3 X 0.28 =	0.84	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	0925							
pH (s.u)	5.74							
Specific Conductivity	249.0							
Water Temperature (°C)	23.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	0.73							

Remarks: Well was sampled on 9/9/08 at 0925.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	09/09/08
Field Personnel	Terence Livingston & Ivan Iazziary
General weather Conditions	Sunny
Ambient Air Temperature (°C)	24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D)	2	inch of	29.00	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.42	ft
Total Well Depth (TWD)	29.00	ft
Depth to Groundwater (DGW)	27.35	ft
Length of Water Colum (LWC = TWD-DGW)	1.65	ft
1 Casing Volume (LWC*C) = 1.65 X .17 =	0.28	gals
3 Casing Volumes = 3 X 0.28 =	0.84	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well contained 0.42' of free product and was not sampled.

D H E C

PROMOTE PROTECT PROSPER

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-7

Well Diameter (D) 2 inch of 32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	32.80	ft
Depth to Groundwater (DGW)		ft
Length of Water Colum (LWC = TWD-DGW)		32.80 ft
1 Casing Volume (LWC*C) =	32.80 X .17 =	5.58 gals
3 Casing Volumes = 3 X	5.58 =	16.73 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well was inaccessible and not sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	29.80	ft
Depth to Groundwater (DGW)		ft
Length of Water Colum (LWC = TWD-DGW)		29.80 ft
1 Casing Volume (LWC*C) =	29.80 X .17 =	5.07 gals
3 Casing Volumes = 3 X	5.07 =	15.20 gals
	(Standard Purge Volume)	

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well was inaccessible and not sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	30.70	ft
Depth to Groundwater (DGW)	27.49	ft
Length of Water Colum (LWC = TWD-DGW)	3.21	ft

1 Casing Volume (LWC*C) = 3.21 X .17 = 0.55 gals
3 Casing Volumes = 3 X 0.55 = 1.64 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	0937							
pH (s.u)	4.48							
Specific Conductivity	43.7							
Water Temperature (°C)	20.8							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	4.56							

Remarks: Well was sampled on 9/9/08 at 0937.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-10

Well Diameter (D) 2 inch of 30.10 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	30.10	ft
Depth to Groundwater (DGW)	27.32	ft
Length of Water Colum (LWC = TWD-DGW)	2.78	ft

1 Casing Volume (LWC*C) = 2.78 X .17 = 0.47 gals
3 Casing Volumes = 3 X 0.47 = 1.42 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	1045							
pH (s.u)	4.54							
Specific Conductivity	84.8							
Water Temperature (°C)	25.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	0.71							

Remarks: Well was sampled on 9/9/08 at 1045.

D H E C

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Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: 09/09/08
Field Personnel: Terence Livingston & Ivan Iazziary
General weather Conditions: Sunny
Ambient Air Temperature (°C): 24

Facility Name: Fmr Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)		ft
Length of Water Colum (LWC = TWD-DGW)		31.00 ft
1 Casing Volume (LWC*C) =	31.00 X .17 =	5.27 gals
3 Casing Volumes = 3 X	5.27 =	15.81 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well was inaccessible and not sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 09/09/08
Field Personnel Terence Livingston & Ivan Iazziary
General weather Conditions Sunny
Ambient Air Temperature (°C) 24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-12

Well Diameter (D) 2 inch of 30.90 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	30.90	ft
Depth to Groundwater (DGW)	28.99	ft
Length of Water Colum (LWC = TWD-DGW)	1.91	ft

1 Casing Volume (LWC*C) = 1.91 X .17 = 0.32 gals
3 Casing Volumes = 3 X 0.32 = 0.97 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	0947							
pH (s.u)	5.29							
Specific Conductivity	76.8							
Water Temperature (°C)	22.9							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	1.32							

Remarks: Well was sampled on 9/9/08 at 0947.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	09/09/08
Field Personnel	Terence Livingston & Ivan Iazziary
General weather Conditions	Sunny
Ambient Air Temperature (°C)	24
Facility Name:	Fmr Ryder Truck Terminal
Site ID#	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-13

Well Diameter (D)	2	inch of	33.20	feet(ft)	
conversion factor (C): 3.143*(D/2)^2					
for a 2 inch well C = 0.163					
for a 4 inch well C = 0.652					
*Free Product Thickness	N/A	ft			
Total Well Depth (TWD)	33.20	ft			
Depth to Groundwater (DGW)	27.41	ft			
Length of Water Colum (LWC = TWD-DGW)			5.79	ft	
1 Casing Volume (LWC*C) =	5.79	X .17	=	0.98	gals
3 Casing Volumes = 3 X	0.98	=		2.95	gals
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	0951							
pH (s.u)	4.75							
Specific Conductivity	56.6							
Water Temperature (°C)	24.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	clear							
Dissolved Oxygen (mg/l)	0.52							

Remarks: Well was sampled on 9/9/08 at 0951. Well had a light sheen and strong petroleum odor.

D H E C

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Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	09/09/08
Field Personnel	Terence Livingston & Ivan Iazziary
General weather Conditions	Sunny
Ambient Air Temperature (°C)	24

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-14

Well Diameter (D)	2	inch of	32.00	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	N/A	ft
Total Well Depth (TWD)	32.00	ft
Depth to Groundwater (DGW)	28.20	ft
Length of Water Colum (LWC = TWD-DGW)		3.80 ft
1 Casing Volume (LWC*C) =	3.80 X .17 =	0.65 gals
3 Casing Volumes = 3 X	0.65 =	1.94 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.0 gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	1013							
pH (s.u)	5.15							
Specific Conductivity	86.5							
Water Temperature (°C)	22.9							
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy							
Dissolved Oxygen (mg/l)	0.88							

Remarks: Well was sampled on 9/9/08 at 1013.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: 09/09/08
Field Personnel: Terence Livingston & Ivan Iazziary
General weather Conditions: Sunny
Ambient Air Temperature (°C): 24

Facility Name: Fmr Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D): 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.29	ft
Total Well Depth (TWD)	33.50	ft
Depth to Groundwater (DGW)	28.55	ft
Length of Water Colum (LWC = TWD-DGW)	4.95	ft
1 Casing Volume (LWC*C) = 4.95 X .17 =	0.84	gals
3 Casing Volumes = 3 X 0.84 = (Standard Purge Volume)	2.52	gals

Total Volume of Water Purged Before Sampling: 0.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well contained 0.29' of free product and was not sampled.

APPENDIX B

LABORATORY DATA SHEETS

Genapure™
Analytical Services, Inc.

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

TREVOR BENTON
BUNNELL-LAMMONS ENGINEERS
6004 PONDERS CT
GREENVILLE, SC 296154601

Regarding:

TREVOR BENTON
BUNNELL-LAMMONS ENGINEERS
6004 PONDERS CT
GREENVILLE, SC 296154601

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
L262172-1	MW-1
L262172-2	MW-2D
L262172-3	MW-3R
L262172-4	MW-5
L262172-5	MW-9
L262172-6	MW-10
L262172-7	MW-12
L262172-8	MW-13
L262172-9	MW-14

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below PQL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014;PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.
EPA 18 is a non-NELAC certifiable parameter. Estimated uncertainty is available upon request.

Serial Number: 679926

Respectfully submitted,

for Tiffany Mackie
Project Manager

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number	L262172-1
Sample Description	MW-1
Samp. Date/Time/Temp	09/09/08 09:05am NA C
Receive Date	09/10/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	101	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	97	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	104	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	0.0352	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/12/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	72	%	1	60-140	09/11/08	09/12/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Inv. No: 220133
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Sample Number	L262172-2
Sample Description	MW-2D
Samp. Date/Time/Temp	09/09/08 10:24am NA C
Receive Date	09/10/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	100	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	98	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	104	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	88	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number L262172-3
Sample Description MW-3R
Samp. Date/Time/Temp 09/09/08 09:20am NA C
Receive Date 09/10/08
Sampled by Customer Sampled
Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	5	5.0	N/A	09/19/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	5	5.0	N/A	09/19/08	LN
BENZENE	5030/8260	23.2	ug/l	5	5.0	N/A	09/19/08	LN
TOLUENE	5030/8260	U	ug/l	5	5.0	N/A	09/19/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	5	5.0	N/A	09/19/08	LN
M&P-XYLENES	5030/8260	U	ug/l	5	10	N/A	09/19/08	LN
O-XYLENE	5030/8260	17.7	ug/l	5	5.0	N/A	09/19/08	LN
XYLENES (TOTAL)	5030/8260	17.7	ug/l	5	15	N/A	09/19/08	LN
NAPHTHALENE	5030/8260	63.2	ug/l	5	5.0	N/A	09/19/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	95	%	5	69-134		09/19/08	LN
TOLUENE-D8 (SURR)	5030/8260	96	%	5	63-127		09/19/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	101	%	5	64-130		09/19/08	LN
Metals Analysis								
LEAD	3010/6010B	0.0309	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	0.440	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	95	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number	L262172-4
Sample Description	MW-5
Samp. Date/Time/Temp	09/09/08 09:25am NA C
Receive Date	09/10/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	1.91	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	98	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	100	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	101	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	87	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Inv. No: 220133
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Sample Number	L262172-5
Sample Description	MW-9
Samp. Date/Time/Temp	09/09/08 09:37am NA C
Receive Date	09/10/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	107	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	98	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	102	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	0.459	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	75	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number	L262172-6
Sample Description	MW-10
Samp. Date/Time/Temp	09/09/08 10:45am NA C
Receive Date	09/10/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	101	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	99	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	108	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	0.420	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	96	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number L262172-7
Sample Description MW-12
Samp. Date/Time/Temp 09/09/08 09:47am NA C
Receive Date 09/10/08
Sampled by Customer Sampled
Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	11.8	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	100	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	98	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	107	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	0.0245	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	89	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number: L262172-8
Sample Description: MW-13
Samp. Date/Time/Temp: 09/09/08 09:51am NA C
Receive Date: 09/10/08
Sampled by: Customer Sampled
Received Temp: 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	20	20	N/A	09/18/08	LN
,2-DICHLOROETHANE	5030/8260	U	ug/l	20	20	N/A	09/18/08	LN
BENZENE	5030/8260	77.0	ug/l	20	20	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	20	20	N/A	09/18/08	LN
THYL BENZENE	5030/8260	U	ug/l	20	20	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	20	40	N/A	09/18/08	LN
-XYLENE	5030/8260	82.0	ug/l	20	20	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	101	ug/l	20	60	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	226	ug/l	20	20	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	99	%	20	69-134		09/18/08	LN
OLUENE-D8 (SURR)	5030/8260	98	%	20	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	100	%	20	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	0.162	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	92	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS
Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL
Job Name: FMR RYDER TRUCK TERMINAL
Job Id: JO8-1810-12

Inv. No: 220133

Sample Number L262172-9
Sample Description MW-14
Samp. Date/Time/Temp 09/09/08 10:13am NA C
Receive Date 09/10/08
Sampled by Customer Sampled
Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analys
Volatile Organic Compounds								
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	82.4	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	3.81	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	54.8	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	67.1	ug/l	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	67.1	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	75.0	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES		% RECOVERY			% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	99	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	99	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	101	%	1	64-130		09/18/08	LN
Metals Analysis								
LEAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011								
1,2-DIBROMOETHANE	8011	0.118	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES		% RECOVERY			% Recovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	91	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

Genapure Analytical Services, Inc.
3231 NW 7th Ave., Boca Raton, FL 33431
www.genapure.com

CHAIN OF CUSTODY RECORD

Log# 26212 T#S ___ Quote: ___ Page 1 of 1

Company Name: BLE PO#
Address: 6004 Ponders Ct
City: Greenville State: SC Zip: 29615
Attn: Trever Beston Fax#
email: Trevor@blecorp.com
Project Name: Far Ryder Truck Terminal Proj# 508-1010-12
Sampler Signature: [signature] Phone# 864-288-1265

LAB ANALYSIS

	Parameter 1	Parameter 2	Parameter 3
Sample			
TRC			
pH			2
Pres Codes			
Parameters	8260 BTEX, MTBE, NAP, DCA	8011 EDB	LEAD

EXAMPLE Diss.8RCRA 6010

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	8260 BTEX, MTBE, NAP, DCA	8011 EDB	LEAD								EXAMPLE (16ozP)	REMARKS
i.e.	MW-1	6/16/04	11:35	GW	X		1											1	
1	MW-1	9/9/08	0915	GW			5	2	2	1	(1)	(OK)							
2	MW-2D		1024																
3	MW-3R		0920																
4	MW-5		0925																
5	MW-9		0937																
6	MW-10		1045																
7	MW-12		0947																
8	MW-13		0951																
9	MW-14	↓	1013	↓			↓	↓	↓	↓									
0																			

\# of Containers Size/Type

TAT Requested: Standard (6) N Rush Date Required ___
Short Hold Y ___ N ___
QA/QC Report Level None ___ 1 ___ 2 ___ 3 ___ Other ___
COC OK Y N
Initials
Required State Certification
Coolers #'s

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
	[signature]	BLE	9/9/08	1100	JG	GS	9/10/8	9:30

Container Type Codes

AV Amber Vial; CV Clear Vial; P Plastic; AJ Amber Liter; CL Clear Liter; AP Amber Plastic; AG Amber Glass; SJ Soil Jar; Other; ES Encore Sampler; PPV Prepreserved vial; PLC Plastic container; PLJ Plastic Jar; Zpbg Ziploc bag; TEDLAR B Tedlar bag; WHIRL P Whirl pak; G Gallon Jug
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, 40ml other
Example: 4ozP = 4oz Plastic, 8ozSJ=8oz Soil Jar

Matrix Codes*

SD Solid Waste; SO Soil; SE Sediment; OL Oil; PE Petroleum; NA Nonaqueous; ML Misc. Liquid; GW Ground Water; EFF Effluent; INF Influent; WW Waste Water; AFW Analyte Free Water; DW Drinking Water; SU Surface Water; AQ Aqueous; SW Source Water; A Air; O Other (Please Specify)

Pres/Codes

A. None; B. HNO_3; C. H_2SO_4; D. NaOH; E. HCL; F. MeOH; G. $Na_2S_2O_3$; H. $NaHSO_4$; I. Ice; J. MCAA; K. Zn Acetate; O. Other

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp 4°C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?			
Volatile rec'd without headspace?			
Proper Containers Used?			

186224

Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

Field Sample ID	Laboratory Sample ID	Date of Collection
MW-1	L241872-1	08/18/08
MW-2	L241872-2	08/18/08
MW-3	L241872-3	08/18/08
MW-4A	L241872-4	08/18/08
MW-4B	L241872-5	08/18/08
MW-5	L241872-6	08/18/08
MW-6	L241872-7	08/18/08
MW-7	L241872-8	08/18/08
MW-8	L241872-9	08/18/08
MW-9	L241872-10	08/18/08

Log No.L241872

15 pages (including cover sheet)

Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

Field Sample ID	Laboratory Sample ID	Date of Collection
MW-10	L241872-11	08/18/08
MW-11	L241872-12	08/18/08
MW-13	L241872-13	08/18/08
MW-15	L241872-14	08/18/08
MW-16	L241872-15	08/18/08
MW-18	L241872-16	08/18/08
MW-19	L241872-17	08/18/08
TW-1	L241872-18	08/18/08
TW-2	L241872-19	08/18/08
TW-3	L241872-20	08/18/08

Log No.L241872

_____ pages (including cover sheet)

Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

Field Sample ID	Laboratory Sample ID	Date of Collection
CREEK	L241872-21	08/18/08

Log No.L241872

_____ pages (including cover sheet)

Qa Information for Login
usb_qa_export.idxl
L241872

Dept	Matrix	Product	Workgroup	RunID	
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-1
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-10
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-11
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-12
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-13
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-14
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-15
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-16
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-17
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-18
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-19
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-2
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-20
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-21
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-3
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-4
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-5
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-6
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-7
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-8
Subcontracted W	GW	SUB-8260OXY-SHEALY		SHEALY 0825	872-9
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-1
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-10
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-11
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-12
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-13
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-14
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-15

Qa Information for Login
usb_qa_export.idxl
L241872

Dept	Matrix	Product	Workgroup	RunID	
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-16
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-17
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-18
Volatiles Analy	GW	8260BTEXNAP	1G082308VM	1G082308VM	872-19
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-2
Volatiles Analy	GW	8260BTEXNAP	1G082308VM	1G082308VM	872-20
Volatiles Analy	GW	8260BTEXNAP	1G082308VM	1G082308VM	872-21
Volatiles Analy	GW	8260BTEXNAP	2G082508VM	2G082508VM	872-3
Volatiles Analy	GW	8260BTEXNAP	2G082508VM	2G082508VM	872-4
Volatiles Analy	GW	8260BTEXNAP	2G082508VM	2G082508VM	872-5
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-6
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-7
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-8
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	2G082208VM	872-9

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ84625-001
Batch: 84625
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	08/21/2008 2003
tert-Amyl methyl ether (TAME)	ND		1	1.0	ug/L	08/21/2008 2003
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	08/21/2008 2003
Diisopropyl ether (IPE)	ND		1	1.0	ug/L	08/21/2008 2003
Ethanol	ND		1	100	ug/L	08/21/2008 2003
Ethyl tert-butyl alcohol (ETBA)	ND		1	20	ug/L	08/21/2008 2003
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	08/21/2008 2003
tert-butyl alcohol (TBA)	ND		1	20	ug/L	08/21/2008 2003

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		109	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ84625-002
Batch: 84625
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	990		1	99	40-130	08/21/2008 1855
tert-Amyl methyl ether (TAME)	50	49		1	98	40-130	08/21/2008 1855
tert-Butyl formate (TBF)	250	250		1	99	40-130	08/21/2008 1855
Diisopropyl ether (IPE)	50	51		1	103	70-130	08/21/2008 1855
Ethanol	5000	4600		1	92	40-130	08/21/2008 1855
Ethyl tert-butyl alcohol (ETBA)	1000	1000		1	102	40-130	08/21/2008 1855
Ethyl-tert-butyl ether (ETBE)	50	48		1	97	40-130	08/21/2008 1855
tert-butyl alcohol (TBA)	1000	980		1	98	40-130	08/21/2008 1855

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		110	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ84625-003
Batch: 84625
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	970		1	97	2.2	40-130	20	08/21/2008 1917
tert-Amyl methyl ether (TAME)	50	50		1	101	2.5	40-130	20	08/21/2008 1917
tert-Butyl formate (TBF)	250	240		1	97	2.5	40-130	20	08/21/2008 1917
Diisopropyl ether (IPE)	50	50		1	101	1.7	70-130	20	08/21/2008 1917
Ethanol	5000	5000		1	101	9.2	40-130	20	08/21/2008 1917
Ethyl tert-butyl alcohol (ETBA)	1000	1000		1	101	0.86	40-130	20	08/21/2008 1917
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	0.37	40-130	20	08/21/2008 1917
tert-butyl alcohol (TBA)	1000	860		1	86	13	40-130	20	08/21/2008 1917

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ84780-001
Batch: 84780
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	08/25/2008 0755
tert-Amyl methyl ether (TAME)	ND		1	1.0	ug/L	08/25/2008 0755
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	08/25/2008 0755
Diisopropyl ether (IPE)	ND		1	1.0	ug/L	08/25/2008 0755
Ethanol	ND		1	100	ug/L	08/25/2008 0755
Ethyl tert-butyl alcohol (ETBA)	ND		1	20	ug/L	08/25/2008 0755
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	08/25/2008 0755
tert-butyl alcohol (TBA)	ND		1	20	ug/L	08/25/2008 0755

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ84780-002
Batch: 84780
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200		1	117	40-130	08/25/2008 0650
tert-Amyl methyl ether (TAME)	50	45		1	90	40-130	08/25/2008 0650
tert-Butyl formate (TBF)	250	250		1	102	40-130	08/25/2008 0650
Diisopropyl ether (IPE)	50	47		1	94	70-130	08/25/2008 0650
Ethanol	5000	5800		1	116	40-130	08/25/2008 0650
Ethyl tert-butyl alcohol (ETBA)	1000	1000		1	103	40-130	08/25/2008 0650
Ethyl-tert-butyl ether (ETBE)	50	47		1	95	40-130	08/25/2008 0650
tert-butyl alcohol (TBA)	1000	1200		1	116	40-130	08/25/2008 0650

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ84780-003
Batch: 84780
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	111	5.4	40-130	20	08/25/2008 0712
tert-Amyl methyl ether (TAME)	50	47		1	94	3.4	40-130	20	08/25/2008 0712
tert-Butyl formate (TBF)	250	250		1	100	1.2	40-130	20	08/25/2008 0712
Diisopropyl ether (IPE)	50	47		1	94	0.653	70-130	20	08/25/2008 0712
Ethanol	5000	5500		1	110	4.9	40-130	20	08/25/2008 0712
Ethyl tert-butyl alcohol (ETBA)	1000	1000		1	100	3.5	40-130	20	08/25/2008 0712
Ethyl-tert-butyl ether (ETBE)	50	47		1	94	0.44	40-130	20	08/25/2008 0712
tert-butyl alcohol (TBA)	1000	1100		1	110	5.2	40-130	20	08/25/2008 0712

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

GENAPURE

BLANK RESULTS

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : S MAN EXPRESS

Parameter	Method	Units	Result	PQL	MDL	Flags
BENZENE	5030/8260	ug/l	U	1.00	0.31	
BENZENE	5030/8260	ug/l	U	1.00	0.31	
BENZENE	5030/8260	ug/l	U	1.00	0.31	
ETHYL BENZENE	5030/8260	ug/l	U	1.00	0.31	
ETHYL BENZENE	5030/8260	ug/l	U	1.00	0.31	
ETHYL BENZENE	5030/8260	ug/l	U	1.00	0.31	
M&P-XYLENES	5030/8260	ug/l	U	2.00	0.77	
M&P-XYLENES	5030/8260	ug/l	U	2.00	0.77	
M&P-XYLENES	5030/8260	ug/l	U	2.00	0.77	
METHYL TERTIARY BUTYLETHER	5030/8260	ug/l	U	1.00	0.12	
METHYL TERTIARY BUTYLETHER	5030/8260	ug/l	U	1.00	0.12	
METHYL TERTIARY BUTYLETHER	5030/8260	ug/l	U	1.00	0.12	
NAPHTHALENE	5030/8260	ug/l	U	1.00	0.41	
NAPHTHALENE	5030/8260	ug/l	U	1.00	0.41	
NAPHTHALENE	5030/8260	ug/l	U	1.00	0.41	
O-XYLENE	5030/8260	ug/l	U	1.00	0.38	
O-XYLENE	5030/8260	ug/l	U	1.00	0.38	
O-XYLENE	5030/8260	ug/l	U	1.00	0.38	

GENAPURE

BLANK RESULTS

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : S MAN EXPRESS

Parameter	Method	Units	Result	PQL	MDL	Flags
TOLUENE	5030/8260	ug/l	U	1.00	0.28	
TOLUENE	5030/8260	ug/l	U	1.00	0.28	
TOLUENE	5030/8260	ug/l	U	1.00	0.28	
XYLENES (TOTAL)	5030/8260	ug/l	U	3.00	1.2	
XYLENES (TOTAL)	5030/8260	ug/l	U	3.00	1.2	
XYLENES (TOTAL)	5030/8260	ug/l	U	3.00	1.2	
4-BROMOFLUOROBENZENE (SURR)	5030/8260	%	95	—	—	
4-BROMOFLUOROBENZENE (SURR)	5030/8260	%	98	—	—	
4-BROMOFLUOROBENZENE (SURR)	5030/8260	%	92	—	—	
DIBROMOFLUOROMETHANE (SURR)	5030/8260	%	102	—	—	
DIBROMOFLUOROMETHANE (SURR)	5030/8260	%	101	—	—	
DIBROMOFLUOROMETHANE (SURR)	5030/8260	%	104	—	—	
TOLUENE-D8 (SURR)	5030/8260	%	98	—	—	
TOLUENE-D8 (SURR)	5030/8260	%	98	—	—	
TOLUENE-D8 (SURR)	5030/8260	%	98	—	—	

Form No. WC3

GENAPURE

LABORATORY CONTROL SAMPLE RESULTS

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : S MAN EXPRESS

Parameter	Method	Units	TrueValue	LCS Result	LCS Rec. %	LCS Dup Result	LCS Dup Rec.%	Recovery Limits	% RPD	RPD Limit	Flags
BENZENE	5030/8260	ug/l	20.0	15.9	80	N/A	N/A	65-141	N/A	N/A	
BENZENE	5030/8260	ug/l	20.0	16.5	83			65-141			
BENZENE	5030/8260	ug/l	20.0	16.9	85			65-141			
TOLUENE	5030/8260	ug/l	20.0	16.2	81			64-139			
TOLUENE	5030/8260	ug/l	20.0	16.4	82			64-139			
TOLUENE	5030/8260	ug/l	20.0	17.5	88			64-139			
4-BROMOFLUOROBENZENE (SURR)	5030/8260	ug/l	50.0	45.78	92			64-130			
4-BROMOFLUOROBENZENE (SURR)	5030/8260	ug/l	50.0	47.85	96			64-130			
4-BROMOFLUOROBENZENE (SURR)	5030/8260	ug/l	50.0	44.37	89			64-130			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	ug/l	50.0	50.4	101			69-134			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	ug/l	50.0.	49.79	100			69-134			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	ug/l	50.0	52.81	106			69-134			
TOLUENE-D8 (SURR)	5030/8260	ug/l	50.0	49.82	100			63-127			
TOLUENE-D8 (SURR)	5030/8260	ug/l	50.0	49.19	98			63-127			
TOLUENE-D8 (SURR)	5030/8260	ug/l	50.0	49.87	100			63-127			

Spike Recovery: 0 out of 30 outside limits

Duplicate RPD: 0 out of 0 outside limits

Form No. WC5

GENAPURE

SPIKE/SPIKE DUPLICATE SAMPLE RESULTS

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : S MAN EXPRESS

Parameter	Sample Number	Method	Units	Sample Result	Spike Conc.	Spiked Result	Spike Rec. %	Spike Dup Result	Spike Dup Rec.%	Recovery Limits	% RPD	RPD Limit	Flags
BENZENE	L241871-1	5030/8260	ug/l	828	20.0	1150 *	1610*	1200*	1860*	61-152	14.0	20	
BENZENE	L241872-4	5030/8260	ug/l	1180	20.0	3210 *	9100*	1280*	500*	61-152	97.0*	20	
BENZENE	L241872-4	5030/8260	ug/l	1180	20.0	1470 *	1450*	1280*	500*	61-152	97.0*	20	
TOLUENE	L241871-1	5030/8260	ug/l	21.0	20.0	343 *	1610*	349*	1640*	60-149	2.0	20	
TOLUENE	L241872-4	5030/8260	ug/l	15.0	20.0	1680 *	8300*	16.0*	5*	60-149	198.0*	20	
TOLUENE	L241872-4	5030/8260	ug/l	15.0	20.0	184 *	845*	16.0*	5*	60-149	198.0*	20	
4-BROMOFLUOROBENZENE (SURR)	L241871-1	5030/8260	ug/l	—	50.0	42.24	84	45.68	91	64-130	—	—	
4-BROMOFLUOROBENZENE (SURR)	L241872-4	5030/8260	ug/l	—	50.0	42.58	85	44.68	89	64-130	—	—	
4-BROMOFLUOROBENZENE (SURR)	L241872-4	5030/8260	ug/l	—	50.0	44.58	89	44.68	89	64-130	—	—	
DIBROMOFLUOROMETHANE (SURR)	L241871-1	5030/8260	ug/l	—	50.0	49.48	99	51.24	102	69-134	—	—	
DIBROMOFLUOROMETHANE (SURR)	L241872-4	5030/8260	ug/l	—	50.0	48.37	97	52.16	104	69-134	—	—	
DIBROMOFLUOROMETHANE (SURR)	L241872-4	5030/8260	ug/l	—	50.0	48.97	98	52.16	104	69-134	—	—	
TOLUENE-D8 (SURR)	L241871-1	5030/8260	ug/l	—	50.0	48.77	98	49.14	98	63-127	—	—	
TOLUENE-D8 (SURR)	L241872-4	5030/8260	ug/l	—	50.0	48.76	98	47.72	95	63-127	—	—	
TOLUENE-D8 (SURR)	L241872-4	5030/8260	ug/l	—	50.0	48.67	97	47.72	95	63-127	—	—	

* BENZENE - Flag-MS and/or MSD recoveries outside control limits. However, LCS and/or LCSD within limits. Data reported.

* TOLUENE - Flag-MS and/or MSD recoveries outside control limits. However, LCS and/or LCSD within limits. Data reported.

Spike Recovery: 12 out of 30 outside limits

Duplicate RPD: 4 out of 6 outside limits

Form No. WC4

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

NOV 06 2008

MR ALLEN VAUGHN
ESTATE OF ROBERT VAUGHN
4 E PARKER RD
GREENVILLE SC 29611-3504

Re: **AFVR & Groundwater Sampling Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA # 34322; MWA# UMW-22208
Release #2 reported February 25, 1997
Monitoring Report received October 23, 2008
Greenville County

Dear Mr. Vaughn:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the file and the next necessary scope of work is four Aggressive Fluid/Vapor Recovery (AFVR) events to remove free phase product from monitoring wells MW-2, MW-4, MW-6, and MW-15. Install three new monitoring wells in the locations indicated on the enclosed map. Approximately one month after completion of the AFVR events, a comprehensive groundwater sampling event should be completed to obtain current data. Samples from all monitoring wells should be collected and analyzed for BTEX, naphthalene, MTBE, by EPA method 8260B and EDB by EPA Method 8011, 8 RCRA metals, and lead by 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.

Cost Agreement # 34322 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR, monitoring well installation, and groundwater sampling activities may proceed immediately upon receipt of this letter. The Assessment Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather conditions during the AFVR event.
- 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.
- A narrative portion documenting current site conditions during the groundwater sampling event 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, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.

UST DOCKET

- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Historical and current groundwater laboratory analytical data for all monitoring wells 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 location.
- 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

Bunnell-Lammons Engineering, Inc. 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 Assessment 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 Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved 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 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. 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 or inquiries regarding this project, please reference **UST Permit # 11929**. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

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

enc: Cost Agreement
Monitoring well approval
Site map

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (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: BLE, Inc.
(On behalf of): Mr. Allen Vaughn
Facility: Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit Number: 11929
County: Greenville

This approval is for the installation of three 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: October 31, 2008 Approval #: UMW-22208

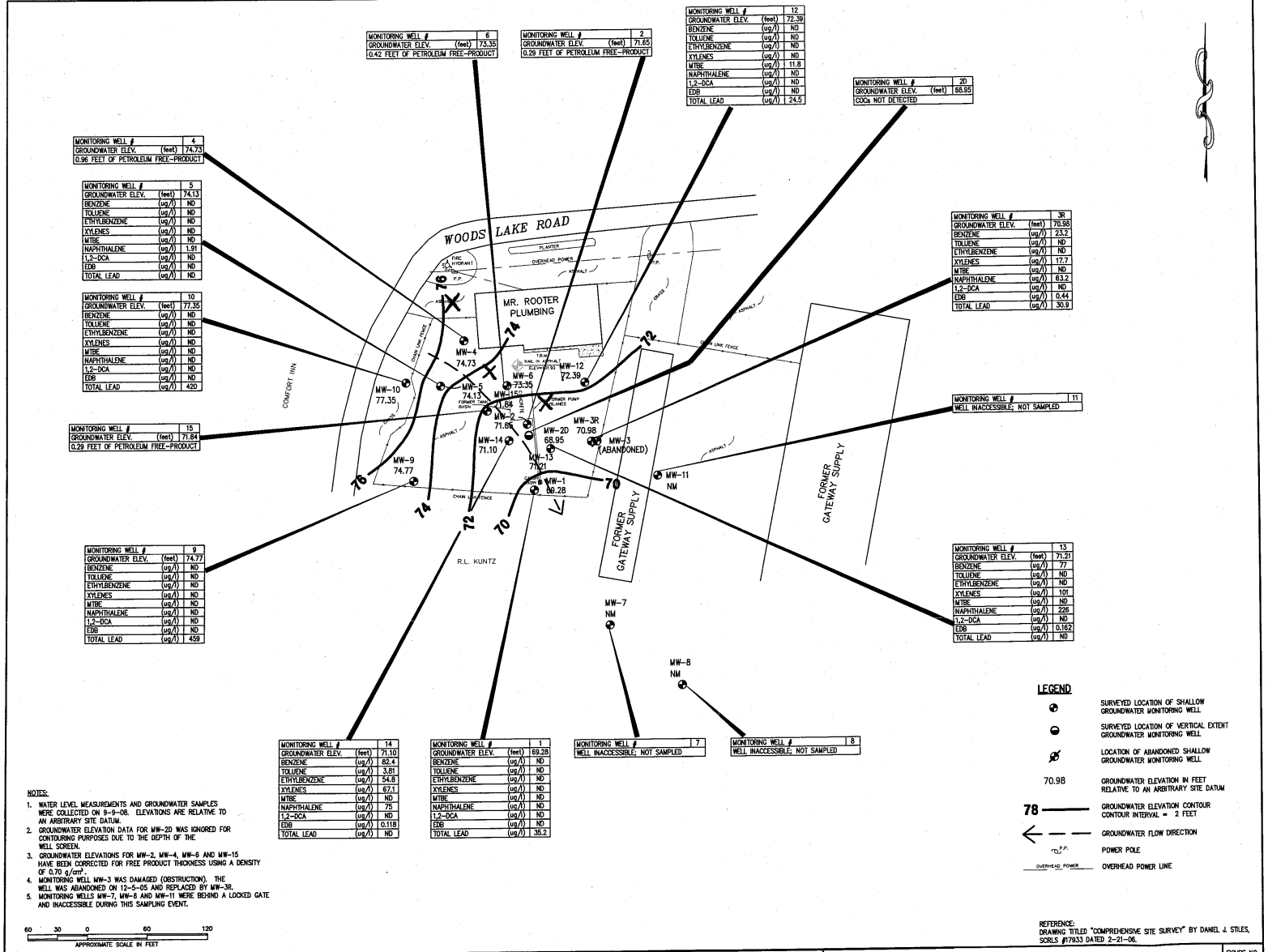
Stephanie Briney

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

Approved Cost Agreement 34322

Facility: 11929 FORMER RYDER TERMINAL
BRINEYSM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	5.0000	575.00	2,875.00
		B	PERSONNEL	7.0000	290.00	2,030.00
09 WELL INSTALLATION						
		B	WATER TABLE (DRILLED)	105.0000	38.00	3,990.00
10 SAMPLE COLLECTION						
		A	GROUND WATER	4.0000	55.00	220.00
		D	GROUNDWATER NO-PURGE	15.0000	35.00	525.00
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	19.0000	100.00	1,900.00
		E	LEAD	19.0000	20.00	380.00
		F	EDB	19.0000	55.00	1,045.00
		G	GW 8 RCRA METALS	19.0000	140.00	2,660.00
16 SUBSEQUENT SURVEY						
			SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL						
		A1	WASTEWATER - PURGING/SAMPLING	3.0000	90.00	270.00
		A2	WASTEWATER - PUMPING TEST	3,000.0000	0.60	1,800.00
		C	SOIL (TREATMENT/DISPOSAL)	15.0000	50.00	750.00
19 RPT/PROJECT MNGT & COORDINATIO						
			PCT PERCENT	0.1500	31,825.00	4,773.75
23 EFR						
		A	8 HOUR EVENT	4.0000	3,000.00	12,000.00
		C	OFF GAS TREATMENT	32.0000	35.00	1,120.00
				Total Amount		36,598.75



MONITORING WELL #	6
GROUNDWATER ELEV. (feet)	73.35
0.42 FEET OF PETROLEUM FREE-PRODUCT	

MONITORING WELL #	2
GROUNDWATER ELEV. (feet)	71.85
0.29 FEET OF PETROLEUM FREE-PRODUCT	

MONITORING WELL #		12
GROUNDWATER ELEV.	(feet)	72.39
BENZENE	(ug/l)	ND
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	ND
MTBE	(ug/l)	11.8
NAPHTHALENE	(ug/l)	ND
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	ND
TOTAL LEAD	(ug/l)	24.5

MONITORING WELL #	2D
GROUNDWATER ELEV. (feet)	68.95
COCs NOT DETECTED	

MONITORING WELL #		4
GROUNDWATER ELEV.	(feet)	74.73
0.96 FEET OF PETROLEUM FREE-PRODUCT		

MONITORING WELL #		5
GROUNDWATER ELEV.	(feet)	74.13
BENZENE	(ug/l)	ND
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	ND
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	1.91
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	ND
TOTAL LEAD	(ug/l)	ND

MONITORING WELL #		3R
GROUNDWATER ELEV.	(feet)	70.98
BENZENE	(ug/l)	23.2
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	17.7
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	63.2
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	0.44
TOTAL LEAD	(ug/l)	30.9

MONITORING WELL #		10
GROUNDWATER ELEV.	(feet)	77.35
BENZENE	(ug/l)	ND
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	ND
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	ND
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	ND
TOTAL LEAD	(ug/l)	420

MONITORING WELL #	11
WELL INACCESSIBLE; NOT SAMPLED	

MONITORING WELL #	15
GROUNDWATER ELEV. (feet)	71.84
0.29 FEET OF PETROLEUM FREE-PRODUCT	

MONITORING WELL #		9
GROUNDWATER ELEV.	(feet)	74.77
BENZENE	(ug/l)	ND
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	ND
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	ND
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	ND
TOTAL LEAD	(ug/l)	459

MONITORING WELL #		13
GROUNDWATER ELEV.	(feet)	71.21
BENZENE	(ug/l)	77
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	101
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	226
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	0.162
TOTAL LEAD	(ug/l)	ND

MONITORING WELL #		14
GROUNDWATER ELEV.	(feet)	71.10
BENZENE	(ug/l)	82.4
TOLUENE	(ug/l)	3.81
ETHYLBENZENE	(ug/l)	54.8
XYLENES	(ug/l)	67.1
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	75
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	0.118
TOTAL LEAD	(ug/l)	ND

MONITORING WELL #		1
GROUNDWATER ELEV.	(feet)	69.28
BENZENE	(ug/l)	ND
TOLUENE	(ug/l)	ND
ETHYLBENZENE	(ug/l)	ND
XYLENES	(ug/l)	ND
MTBE	(ug/l)	ND
NAPHTHALENE	(ug/l)	ND
1,2-DCA	(ug/l)	ND
EDB	(ug/l)	ND
TOTAL LEAD	(ug/l)	35.2

MONITORING WELL #	7
WELL INACCESSIBLE; NOT SAMPLED	

MONITORING WELL #	8
WELL INACCESSIBLE; NOT SAMPLED	

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 70.98 — GROUNDWATER ELEVATION IN FEET RELATIVE TO AN ARBITRARY SITE DATUM
- 78 — GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 9-9-08. ELEVATIONS ARE RELATIVE TO AN ARBITRARY SITE DATUM.
2. GROUNDWATER ELEVATION DATA FOR MW-2D WAS IGNORED FOR CONTOURING PURPOSES DUE TO THE DEPTH OF THE WELL SCREEN.
3. GROUNDWATER ELEVATIONS FOR MW-2, MW-4, MW-6 AND MW-15 HAVE BEEN CORRECTED FOR FREE PRODUCT THICKNESS USING A DENSITY OF 0.70 g/cm³.
4. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.
5. MONITORING WELLS MW-7, MW-8 AND MW-11 WERE BEHIND A LOCKED GATE AND INACCESSIBLE DURING THIS SAMPLING EVENT.

60 30 0 60 120
APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

REVISIONS		
No.	DESCRIPTION	BY

DRAWN: AEH | DATE: 10-3-08
CHECKED: TJB | CAD FILE: FORMERRTT-12POT
APPROVED: | JOB NO: J08-1010-12

BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC AND POTENTIOMETRIC MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE NO. 2

X = proposed monitoring well location

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

May 11, 2009

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report of Supplemental Environmental Activities**
Former Ryder Truck Terminal
Greenville, Greenville County
UST Permit #11929; CA #34322
BLE Project No. J08-1010-13

Dear Ms. Briney:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has completed the installations of three groundwater monitoring wells, performed four aggressive fluid vapor recovery (AFVR) events, and conducted a site-wide groundwater sampling at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated November 06, 2008. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, and 2007 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. In a continued effort to remove free-product concentrations at the site SCDHEC has required this additional scope of work be performed.

COMPLETED SCOPE OF SERVICES

On November 19th and 20th, 2008 BLE personnel mobilized to the site to install three new on-site groundwater monitoring wells (MW-16, MW-17 and MW-18). The wells were installed to serve as additional AFVR extraction points within the source area (former UST basin) of the contaminant plume. After the installation of the wells was completed, two consecutive AFVR events were performed on wells MW-2, MW-4, MW-6, MW-15, MW-17, and MW-18 on December 12th and December 15th, 2008, followed by two additional consecutive AFVR events on January 20th and 21st, 2009. Approximately 30 days after the final AFVR event (February 23rd, 2009) a comprehensive groundwater sampling event was conducted to obtain current site data. This report presents the results of our activities

MONITORING WELL INSTALLATION

Three new groundwater monitoring wells, (MW-16, MW-17, and MW-18) were installed on November 19th and November 20th, 2008. Monitoring well locations are shown on Figure 2 through Figure 5. Monitoring well installation details and boring logs are provided in Appendix A. Monitoring well construction data is provided in Table 1.

The new well locations were surveyed by a South Carolina licensed surveyor (Daniel J. Stiles RLS, SC # 17933) to establish horizontal control and vertical elevations of the top of PVC casing and ground surface. Stabilized groundwater elevation measurements were related to a common site datum from which groundwater flow directions could be determined. The survey results are provided as Figure 3.

Drill cuttings generated during the installation of the monitoring wells were contained in 55-gallon drums, on-site. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix B.

DECEMBER 12, 2008 AFVR EVENT - EVENT #1

On December 12th, an 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur Environmental services, Inc (Excalibur) of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 0.15 of free-phase petroleum product in MW-4, and 0.63 feet of free-phase petroleum product in MW-17. The initial depth to groundwater/free-product readings in the source area wells (feet below the top of the PVC well casing (btoc)) were 29.01 (MW-4), 28.63 (MW-5), 29.76 (MW-12), and 29.69 (MW-17). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0900 and concluded at 1700. The general weather conditions observed during this period of time were clear to overcast; winds varied between 4 and 15 mph with an ambient temperature between 32 ° and 55° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 23 and 24.5 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in wells MW-5 and MW-12 to evaluate effective drawdown. Gauging data observed during the event is shown in Table 2.

Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 photoionization detector (PID). The observed vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 100 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately six gallons of free-phase petroleum product was measured in the holding tanks by Excalibur personnel following the completion of the AFVR event. Please note, the measurement of free-product thickness in the recovery tank is affected by product emulsification with groundwater, which occurs as a result of the AFVR process. Additionally, petroleum product losses occur from volatilization during an AFVR event; therefore, the liquids may not have had sufficient time to

separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix B.

A total of approximately 1.67 pounds of gasoline vapor which is equivalent to approximately 0.27 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3.

The source area monitoring wells were gauged immediately following the conclusion of the event and 0.03 feet of free-phase product was observed in MW-17. No free-product was observed in MW-4. Total water level changes level changes for this event are shown in Table 2.

DECEMBER 15, 2008 AFVR EVENT - EVENT #2

On December 15, 2008, an 8-hour AFVR event was conducted in monitoring wells MW-2, MW-6, MW-15, and MW-18. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 1.30 feet of free-phase petroleum product in MW-15, and 0.46 feet of free-phase petroleum product in MW-18. No free-phase product was detected in MW-2, and MW-6 was dry. The initial depth to groundwater/free-product readings in the source area wells (feet btoc) were 28.91 (MW-2), 28.66 (MW-5), 29.81 (MW-12), 29.76 (MW-15), and 29.62 (MW-18). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were clear to overcast; winds varied between 5 and 8 mph with an ambient temperature between 42 ° and 55° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 17 and 19.5 inches of mercury was applied to MW-2, MW-6, MW- 15, and MW-18. In addition to collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in wells MW-5, MW-12, MW-14, and MW-2D to evaluate effective drawdown. Gauging data observed during the event is shown in Table 4.

Influent and effluent vapor concentrations were measured 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 4.

At the completion of the AFVR event, a total volume of 925 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately 11 gallons of free-phase petroleum product was measured in the holding tanks by Excalibur personnel following the completion of the AFVR event. Please note, the measurement of free-product thickness in the recovery tank is affected by product emulsification with groundwater which occurs as a result of the AFVR process. Additionally, petroleum product losses occur from volatilization during an AFVR event; therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix B.

A total of approximately 3.11 pounds of gasoline vapor which is equivalent to approximately 0.5 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5.

The source area monitoring wells were gauged immediately following the conclusion of the event and no free-phase product was observed in MW-2, MW-15, or MW-18. However, 0.18 feet of free-phase petroleum product was observed in MW-6. Total water level changes for this event are shown in Table 4.

JANUARY 20, 2009 AFVR EVENT - EVENT #3

On January 20th, 2008, an 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 0.01 of free-phase petroleum product in MW-4 and 0.97 feet of free-phase petroleum product in MW-17. The initial depth to groundwater/free-product readings in the source area wells (feet btoc) were 28.84 (MW-4), 28.35 (MW-5), 29.81 (MW-12), and 29.91 (MW-17). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0945 and concluded at 1745. The general weather conditions observed during this period of time were clear; winds varied between 12 and 17 mph with an ambient temperature between 24° and 36° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 23 inches of mercury was applied to MW-4 and MW-17. In addition to

collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in wells MW-5 and MW-12 to evaluate effective drawdown. Gauging data observed during the event is shown in Table 6.

Influent and effluent vapor concentrations were measured 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 6.

At the completion of the AFVR event, a total volume of 955 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately two gallons of free-phase petroleum product was measured in the holding tanks by Excalibur personnel following the completion of the AFVR event. Please note, the measurement of free-product thickness in the recovery tank is affected by product emulsification with groundwater which occurs as a result of the AFVR process. Additionally, petroleum product losses occur from volatilization during an AFVR event; therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix B.

A total of approximately 2.04 pounds of gasoline vapor which is equivalent to approximately 0.33 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 7.

The source area monitoring wells were gauged immediately following the conclusion of the event and no free-phase product was observed in MW-4. However, 0.90 feet of free-phase product was observed in MW-17. Total water level changes for this event are shown in Table 6.

JANUARY 21, 2009 AFVR EVENT - EVENT #4

On January 21, 2009 an 8-hour AFVR event was conducted in monitoring wells MW-2, MW-6, MW-15 and MW-18. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 0.01 of free-phase petroleum product in MW-2, 0.01 feet of free-phase petroleum product in MW-6, 0.19 feet of free-phase petroleum product in MW-15, and 0.19 feet of free-phase petroleum product in MW-18. The initial depth to groundwater

/free-product readings in the source area wells (feet btoc) were 29.42 (MW-2), 28.33 (MW-5), 29.11 (MW-6), 29.81 (MW-12), 29.93 (MW-14), 28.39 (MW-15), 29.42 (MW-18), and 30.16 (MW-2D). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0945 and concluded at 1745. The general weather conditions observed during this period of time were clear to overcast; winds varied between 1 and 9 mph with an ambient temperature between 19 ° and 39° Fahrenheit. Throughout the duration of the AFVR

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are on-site, and three wells (MW-7, MW-8, and MW-11) are off-site.

Groundwater levels in the monitoring wells were measured on February 23, 2009 (Table 1). A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is on Figure 4.

Groundwater samples were collected from eleven (MW-1, MW-2D, MW-5, MW-7 through MW-11, MW-13, MW-14, and MW-16) of the nineteen monitoring wells on February 23, 2009. Monitoring wells MW4, MW-6, and MW-12 were not sampled as they were dry at the time of the sampling event. Additionally, monitoring wells MW-2, MW-3R, MW-15, MW-17 and MW-18 were not sampled due to the presence of free-phase product in the wells. The remaining wells were sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and methyl-tertiary-butyl-ether (MTBE) by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011 and 8-RCRA metals by EPA 6000/7000 series methods.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well development). Therefore, only monitoring wells MW-2D and MW-16 (new monitoring well) were purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix C. The samples were shipped via overnight courier to Pace Environmental Services, Inc. (PACE) in Huntersville, North Carolina for analysis (SC Certification #990060001). The monitoring well sampling logs are in Appendix C. The laboratory data sheets are provided in

Appendix D. Concentrations of the chemicals of concern (CoCs) for each well are shown on Figure 5. Historical groundwater laboratory analytical results are provided as Table 10.

Purge water generated during the groundwater sampling event was contained in a 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix B.

LABORATORY RESULTS

Laboratory analyses detected various CoC in monitoring wells MW-1, MW-2D, MW-5, MW-7, MW-13, and MW-14. Benzene, naphthalene, and EDB (MW-13 and MW-14) were the only dissolved VOCs detected at concentrations exceeding Risk-Based Screening Levels (RBSLs). Additionally, various 8-RCRA metal concentrations were detected above RBSLs in monitoring wells MW-9, MW-10, MW-11, and MW-14. Petroleum free-product was measured in MW-2, MW-3R, MW-15, MW-17 and MW-18 at a thickness of 0.02, 0.60, 0.13, 0.79 and 0.45 feet, respectively. Laboratory analytical results for each well are shown on Figure 5. Historical laboratory data is summarized on Table 10, through Table 12. Laboratory data sheets are provided in Appendix D.

CONCLUSIONS AND RECOMMENDATIONS

During this assessment, laboratory analyses detected various VOC and/or and metals concentrations in monitoring wells MW-1, MW-2D, MW-5, MW-7, MW-9, MW-10, MW-11, MW-13, and MW-14 exceeding established RBSLs. Various VOCs and/or metals concentrations were also detected in monitoring wells MW-8 and MW-16, but at levels below their respective established RBSLs. Additionally, petroleum free-product was detected in five on-site monitoring wells (MW-2, MW-3R, MW-15, MW-17, and MW-18). Wells MW-4, MW-6, and MW-12 were dry during the sampling event.

The four 8-hour AFVR events have removed approximately 30 gallons of free-phase petroleum product (liquid and vapor). The 8-hour AFVR events have been successful in reducing of free-phase petroleum product thickness in MW-15; however, the thicknesses in MW-2, MW-17 and MW-18 have remained at similar thicknesses. Additionally, monitoring well MW-3R contained 0.60 feet of free-phase petroleum product and monitoring wells MW-4 and MW-6 were dry at the

time of sampling. Historically, MW-4 and MW-6 have contained moderate thicknesses of free-phase petroleum product.

We recommend the replacement of dry monitoring wells MW-4, MW-6, and MW-12 which are critical in defining the horizontal extent of the free-product plume. Additionally, since free-product is still present in MW-2, MW-3R, MW-15, MW-17, MW-18, and presumably MW-4 and MW-6, we recommend that a series of additional AFVR events be conducted at the site. After a minimum of 30 days from the last AFVR event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey Business Management, Division of Procurement Services for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

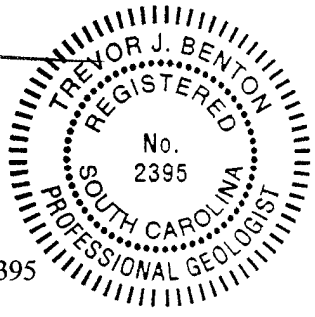
BUNNELL-LAMMONS ENGINEERING, INC.

Shelly Newman for

Ivan A. Irizarry
Staff Geologist

Trevor J. Benton
Project Hydrogeologist

Registered, South Carolina #2395



cc: Mr. Allen Vaughn, For the Estate of Robert B. Vaughn

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	FP Thickness (ft)	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	30.89	NA	28.68	69.81	31.0	21.0 - 31.0	77.5 - 67.5
MW-2*	100.10	100.54	28.67	0.02	29.11	71.43	35.0	25.0 - 35.0	75.5 - 65.5
MW-2D	99.29	99.76	30.05	NA	30.53	69.24	54.5	49.5 - 54.5	50.3 - 45.3
MW-3	Well abandoned December 5, 2005								
MW-3R*	99.00	99.57	28.54	0.60	29.11	70.46	32.4	18.5 - 28.5	81.1 - 71.1
MW-4	102.67	102.91	Dry	Dry	Dry	NA	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	27.90	NA	28.14	73.58	29.0	19.0 - 29.0	82.7 - 72.7
MW-6	101.74	102.12	Dry	Dry	Dry	NA	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	28.62	NA	28.92	64.05	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	25.14	NA	25.25	63.62	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	27.34	NA	27.73	74.92	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	27.02	NA	27.02	77.65	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	28.87	NA	29.13	71.79	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	Dry	Dry	Dry	NA	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	27.81	NA	28.14	70.81	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	27.52	NA	28.05	71.78	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	27.82	0.13	28.01	72.57	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	27.90	NA	28.19	74.84	34.4	24.2 - 34.2	78.8 - 68.8
MW-17*	102.09	102.49	28.76	0.79	29.16	73.33	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	28.90	0.45	29.25	71.49	35.6	25.4 - 35.4	75.3 - 65.3

NOTES:

Groundwater levels were measured on February 23, 2009.
Measurements are in feet; elevations are relative to an arbitrary site datum.
*Petroleum free product was detected in MW-2 (0.02), MW-3R (0.60), MW-15 (0.13), MW-17 (0.79) & MW-18 (0.45) on February 23, 2009
Groundwater depth data for MW-2, MW-3R, MW-15, MW-17 and MW-18 has been corrected for free-product thickness using a density of 0.70 g/cc.
btoc = below top of casing
bgs = below ground surface
FP= Free Product
NA = Not Aplicable.

Prepared By: IAI
Checked By: TZS

TABLE 2

AFVR Gauging Data (December 12, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

	Monitoring Well Gauging Data						Air Emissions	
	Vacuum Readings		Depth to Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-4	MW-17	MW-4	MW-5	MW-12	MW-17		
0900	23.0	24.0	29.01	28.63	29.76	29.69	867	16
0930	23.0	24.0	AFVR EVENT	28.64	29.76	AFVR EVENT	857	16
1000	23.0	24.0		28.66	29.77		843	16
1030	23.0	24.0		28.66	29.77		823	15
1100	23.0	24.0		28.66	29.77		775	15
1130	23.0	24.0		28.66	29.77		762	15
1200	24.5	24.0		28.66	29.77		752	15
1230	24.5	24.0		28.66	29.77		741	14
1300	24.5	24.0		28.67	29.78		738	14
1330	24.5	24.0		28.67	29.78		696	14
1400	24.5	24.0		28.67	29.78		654	14
1430	24.5	24.0		28.67	29.78		618	14
1500	24.5	24.0		28.67	29.78		577	14
1530	24.5	24.0		28.67	29.78		493	12
1600	24.5	24.0		28.68	29.78		461	12
1630	24.5	24.0		28.68	29.78		453	12
1700	24.5	24.0	29.18	28.68	29.78	30.44	442	12
	Water Level Change (ft)		0.17	0.05	0.02	0.75		

NOTES:

AFVR event performed on December 12, 2008.

0.15 and 0.63 feet of free-phase petroleum product were detected in MW-4 and MW-17,espectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID)

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

Prepared By: IAI
Checked By:TZS

TABLE 3

AFVR Gauging Data (December 12, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
12/12/2008	0900	25	726	3	118	92.7	867	0	29.66	1,017.06	4,068.24	4	2,029.89	1.27E-04	0.23	0.26	0.04
12/12/2008	0930	25	732	3	124	91.4	857	0:30	29.60	1,005.33	4,021.31	4	2,006.48	1.25E-04	0.22	0.26	0.04
12/12/2008	1000	25	743	3	130	92.5	843	1:00	29.73	988.91	3,955.62	4	1,973.70	1.23E-04	0.22	0.25	0.04
12/12/2008	1030	25	751	3	131	92.2	823	1:30	30.00	965.44	3,861.77	4	1,926.88	1.20E-04	0.22	0.25	0.04
12/12/2008	1100	25	760	3	132	91.8	775	2:00	30.31	909.14	3,636.54	4	1,814.49	1.13E-04	0.21	0.24	0.04
12/12/2008	1130	25	754	3	132	88.4	762	2:30	30.07	893.89	3,575.54	4	1,784.06	1.11E-04	0.20	0.23	0.04
12/12/2008	1200	25	761	3	132	86.3	752	3:00	30.35	882.16	3,528.62	4	1,760.65	1.10E-04	0.20	0.23	0.04
12/12/2008	1230	25	758	3	132	85.4	741	3:30	30.23	869.25	3,477.01	4	1,734.89	1.08E-04	0.20	0.23	0.04
12/12/2008	1300	25	762	3	132	79.3	738	4:00	30.39	865.73	3,462.93	4	1,727.87	1.08E-04	0.20	0.23	0.04
12/12/2008	1330	25	758	3	132	75.2	696	4:30	30.23	816.46	3,265.85	4	1,629.53	1.02E-04	0.18	0.21	0.03
12/12/2008	1400	25	763	3	132	78.6	654	5:00	30.43	767.19	3,068.77	4	1,531.20	9.56E-05	0.17	0.20	0.03
12/12/2008	1430	25	777	3	132	75.3	618	5:30	30.99	724.96	2,899.85	4	1,446.91	9.03E-05	0.17	0.19	0.03
12/12/2008	1500	25	754	3	132	76.9	577	6:00	30.07	676.87	2,707.47	4	1,350.92	8.43E-05	0.15	0.18	0.03
12/12/2008	1530	25	764	3	132	75.2	493	6:30	30.47	578.33	2,313.31	4	1,154.25	7.21E-05	0.13	0.15	0.02
12/12/2008	1600	25	772	3	132	73.6	461	7:00	30.79	540.79	2,163.16	4	1,079.33	6.74E-05	0.12	0.14	0.02
12/12/2008	1630	25	760	3	132	74.1	453	7:30	30.31	531.40	2,125.62	4	1,060.60	6.62E-05	0.12	0.14	0.02
12/12/2008	1700	25	765	3	132	72.7	442	8:00	30.51	518.50	2,074.00	4	1,034.85	6.46E-05	0.12	0.14	0.02
Average Values		25	756	3	131	82.4	680		30.24	797.14	3,188.57	4	1590.97	9.93243E-05	0.18	0.21	0.03
B_{ws}	0.148	B_{wsw}	0.089														

Total Pounds of Carbon Recovered as Emissions: **1.4419**

Total Pounds of Gasoline Recovered as Emissions: **1.6688**

Total Gallons of Gasoline Recovered as Emissions: **0.2670**

NOTES:

AFVR event performed by Excalibur Environmental Services, Inc. on December 12, 2008.
Vacuum applied to monitoring wells MW-4 and MW-17.
0.15 and 0.63 feet of free-phase petroleum product measured in MW-4 and MW-17, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By:IAI
Checked By: TZS

TABLE 4

AFVR Gauging Data (December 15, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

	Monitoring Well Gauging Data												Air Emissions	
	Vacuum Readings				Depth to Water (feet btoc)								Influent (ppm)	Effluent (ppm)
Time	MW-2	MW-6	MW-15	MW-18	MW-2	MW-5	MW-6	MW-12	MW-14	MW-15	MW-18	MW-2D		
0930	17.0	19.0	19.5	19.0	28.91	28.66	Dry	29.76	28.41	29.71	29.96	31.25	725	16
1000	17.0	19.0	19.5	19.0	AFVR EVENT	28.68	AFVR EVENT	29.77	28.68	AFVR EVENT	AFVR EVENT	31.29	608	16
1030	17.0	19.0	19.5	19.0		28.70		29.78	28.96			31.34	499	15
1100	17.0	19.0	19.5	19.0		28.73		29.78	29.31			31.40	489	15
1130	17.0	19.0	19.5	19.0		28.76		29.79	29.67			31.47	503	15
1200	17.0	19.0	19.5	19.0		28.77		29.79	29.79			31.48	495	14
1200	17.0	19.0	19.5	19.0		28.78		29.79	29.91			31.49	486	14
1300	17.0	19.0	19.5	19.0		28.79		29.79	29.99			31.50	472	14
1330	17.0	19.0	19.5	19.0		28.81		29.79	30.07			31.52	467	14
1400	17.0	19.0	19.5	19.0		28.82		29.79	Dry			31.52	461	14
1430	17.0	19.0	19.5	19.0		28.83		29.79	Dry			31.53	456	13
1500	17.0	19.0	19.5	19.0		28.84		29.79	Dry			31.54	452	13
1530	17.0	19.0	19.5	19.0		28.85		29.79	Dry			31.55	448	13
1600	17.0	19.0	19.5	19.0		28.86		29.79	Dry			31.55	439	13
1630	17.0	19.0	19.5	19.0		28.87		29.80	Dry			31.56	432	13
1700	17.0	19.0	19.5	19.0		28.88		29.80	Dry			31.56	426	13
1730	17.0	19.0	19.5	19.0	29.02	28.90	29.29	29.80	Dry	29.95	30.93	31.57	418	13
	Water Level Change (ft)				0.11	0.24	-0.21	0.04	1.66	0.24	0.97	0.32		

NOTES:

AFVR event performed on December 15, 2008.

1.30 and 0.46 feet of free-phase petroleum product in detected in MW-15 and MW-18, respectively prior to initiating the AFVR event.

No free-phase petroleum product was measured in MW-2 prior to initiating the AFVR event.

MW-6 was dry prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID)

btoc - below top of casing

ppm - parts per million

Water Level Change (feet)= Final depth to water minus initial depth to water; positive = drawdown; negative = rise

Prepared By: IAI
Checked By: TZS

TABLE 5

AFVR Gauging data (December 15, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID# MW-2, MW-6, MW-15, AND MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
12/15/2008	0930	22	1,872	3	112	93.7	725	0	75.47	895.77	3,583.10	4	1,787.83	1.12E-04	0.50	0.58	0.09
12/15/2008	1000	22	1,980	3	112	93.4	608	0:30	79.40	751.21	3,004.86	4	1,499.31	9.36E-05	0.45	0.52	0.08
12/15/2008	1030	22	1,893	3	151	92.5	499	1:00	71.47	616.54	2,466.16	4	1,230.52	7.68E-05	0.33	0.38	0.06
12/15/2008	1100	22	1,912	3	151	80.1	489	1:30	71.78	604.18	2,416.74	4	1,205.86	7.53E-05	0.32	0.38	0.06
12/15/2008	1130	22	1,947	3	152	78.4	503	2:00	72.97	621.48	2,485.93	4	1,240.38	7.74E-05	0.34	0.39	0.06
12/15/2008	1200	22	1,989	3	152	72.3	495	2:30	74.55	611.60	2,446.39	4	1,220.65	7.62E-05	0.34	0.39	0.06
12/15/2008	1200	22	2,008	3	153	64.6	486	2:30	75.14	600.48	2,401.91	4	1,198.46	7.48E-05	0.34	0.39	0.06
12/15/2008	1300	22	2,010	3	153	65.7	472	3:30	75.21	583.18	2,332.72	4	1,163.94	7.27E-05	0.33	0.38	0.06
12/15/2008	1330	22	2,017	3	153	62.5	467	4:00	75.47	577.00	2,308.01	4	1,151.61	7.19E-05	0.33	0.38	0.06
12/15/2008	1400	22	2,014	3	156	61.6	461	4:30	74.99	569.59	2,278.36	4	1,136.81	7.10E-05	0.32	0.37	0.06
12/15/2008	1430	22	2,019	3	156	60.5	456	5:00	75.18	563.41	2,253.64	4	1,124.48	7.02E-05	0.32	0.37	0.06
12/15/2008	1500	22	2,024	3	158	57.7	452	5:30	75.42	558.47	2,233.88	4	1,114.62	6.96E-05	0.31	0.36	0.06
12/15/2008	1530	22	2,021	3	158	55.3	448	6:00	75.01	553.53	2,214.11	4	1,104.75	6.90E-05	0.31	0.36	0.06
12/15/2008	1600	22	2,015	3	158	53.2	439	6:30	74.79	542.41	2,169.63	4	1,082.56	6.76E-05	0.30	0.35	0.06
12/15/2008	1630	22	2,018	3	158	52.8	432	7:00	74.90	533.76	2,135.03	4	1,065.30	6.65E-05	0.30	0.35	0.06
12/15/2008	1700	22	2,017	3	158	50.4	426	7:30	74.86	526.34	2,105.38	4	1,050.50	6.56E-05	0.29	0.34	0.05
12/15/2008	1730	22	2,022	3	158	47.3	418	8:00	75.05	516.46	2,065.84	4	1,030.77	6.44E-05	0.29	0.34	0.05
Average Values		22	1,987	3	150	67.2	487		74.74	601.50	2,405.98	4	1200.49	7.49467E-05	0.34	0.39	0.06
B_{ws}	0.191	B_{wsw}	0.115														

Total Pounds of Carbon Recovered as Emissions: **2.6887**

Total Pounds of Gasoline Recovered as Emissions: **3.1116**

Total Gallons of Gasoline Recovered as Emissions: **0.4979**

NOTES:

AFVR event performed by Excalibur Environmental Services, Inc. on December 15, 2008.
Vacuum applied to monitoring wells MW-2, MW-6, MW-15 and MW-18.
1.30 and 0.46 feet of free-phase petroleum product measured in MW-15 and MW-18, respectively prior to initiating the AFVR event.
Prior to initiating the AFVR event, the free-phase petroleum product layer in MW-6 extended below the screened interval, therefore an accurate free-phase petroleum product thickness could not be determined.
No free-phase petroleum product was measured in MW-2 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By: IAI
Checked By:TZS

TABLE 6

AFVR Gauging Data (January 20, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

	Monitoring Well Gauging Data						Air Emissions	
	Vacuum Readings		Depth to Water (feet btoc)				Influent	Effluent
Time	MW-4	MW-17	MW-4	MW-5	MW-12	MW-17	(ppm)	(ppm)
0945	23	23	28.85	28.35	29.81	29.91	1587	17
1015	23	23	AFVR EVENT	28.35	29.81	AFVR EVENT	1481	18
1045	23	23		28.35	29.81		1305	17
1115	23	23		28.35	29.81		983	16
1145	23	23		28.35	29.81		879	15
1215	23	23		28.35	29.81		663	14
1245	23	23		28.35	29.81		454	14
1315	23	23		28.35	29.81		452	13
1345	23	23		28.35	29.81		433	14
1415	23	23		28.35	29.81		421	13
1445	23	23		28.36	29.81		418	13
1515	23	23		28.36	29.81		403	13
1545	23	23		28.37	29.81		394	12
1615	23	23		28.37	29.81		390	12
1645	23	23		28.38	29.81		381	12
1715	23	23		28.38	29.81		317	12
1745	23	23	29.41	29.39	29.81	31.97	261	10
	Water Level Change (ft)		0.56	1.04	0.00	2.06		

NOTES:

AFVR event performed on January 20, 2009.

0.01 and 0.97 feet of free-phase petroleum product measured in MW-4 and MW-17, respectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID)

BTOC - Below Top Of Casing

ppm - parts per million

Water Level Change (feet)= Final depth to water minus initial depth to water; positive = drawdown; negative = rise

Prepared By: IAI
Checked By:TZS

TABLE 7

AFVR Gauging Data (January 20, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS									
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/20/2009	0945	25	964	3	110	87.1	1,587	0	40.81	1,791.98	7,167.91	4	3,576.51	2.23E-04	0.55	0.63	0.10
1/20/2009	1015	25	970	3	110	87.2	1,481	0:30	41.66	1,672.29	6,689.15	4	3,337.63	2.08E-04	0.51	0.59	0.10
1/20/2009	1045	25	973	3	110	86.6	1,305	1:00	41.19	1,473.56	5,894.22	4	2,940.99	1.84E-04	0.45	0.53	0.08
1/20/2009	1115	25	954	3	110	87.2	983	1:30	40.39	1,109.97	4,439.86	4	2,215.32	1.38E-04	0.34	0.39	0.06
1/20/2009	1145	25	928	3	118	87.8	879	2:00	38.74	992.53	3,970.13	4	1,980.94	1.24E-04	0.29	0.33	0.05
1/20/2009	1215	25	918	3	118	85.8	663	2:30	38.32	748.63	2,994.53	4	1,494.16	9.33E-05	0.21	0.25	0.04
1/20/2009	1245	25	933	3	124	85.4	454	3:00	38.55	512.64	2,050.56	4	1,023.15	6.39E-05	0.15	0.17	0.03
1/20/2009	1315	25	962	3	124	26.2	452	3:30	39.75	510.38	2,041.52	4	1,018.64	6.36E-05	0.15	0.18	0.03
1/20/2009	1345	25	975	3	128	87.4	433	4:00	40.01	488.93	1,955.71	4	975.82	6.09E-05	0.15	0.17	0.03
1/20/2009	1415	25	958	3	128	87.8	421	4:30	39.31	475.38	1,901.51	4	948.78	5.92E-05	0.14	0.16	0.03
1/20/2009	1445	25	963	3	130	86.7	418	5:00	39.38	471.99	1,887.96	4	942.02	5.88E-05	0.14	0.16	0.03
1/20/2009	1515	25	927	3	130	85.1	403	5:30	37.91	455.05	1,820.21	4	908.21	5.67E-05	0.13	0.15	0.02
1/20/2009	1545	25	954	3	132	85.7	394	6:00	38.88	444.89	1,779.56	4	887.93	5.54E-05	0.13	0.15	0.02
1/20/2009	1615	25	954	3	132	83.6	390	6:30	38.88	440.37	1,761.49	4	878.92	5.49E-05	0.13	0.15	0.02
1/20/2009	1645	25	961	3	132	83.6	381	7:00	39.17	430.21	1,720.84	4	858.63	5.36E-05	0.13	0.15	0.02
1/20/2009	1715	25	977	3	132	81.7	317	7:30	39.82	357.94	1,431.78	4	714.40	4.46E-05	0.11	0.12	0.02
1/20/2009	1745	25	962	3	130	80.4	261	8:00	39.34	294.71	1,178.84	4	588.20	3.67E-05	0.09	0.10	0.02
Average Values		25	955	3	123	82.1	660		39.50	745.38	2,981.52	4	1487.66	9.28747E-05	0.22	0.25	0.04
B_{ws}	0.114	B_{wsw}	0.069															

Total Pounds of Carbon Recovered as Emissions: 1.7610

Total Pounds of Gasoline Recovered as Emissions: 2.0380

Total Gallons of Gasoline Recovered as Emissions: 0.3261

NOTES:

AFVR event performed by Excalibur Environmental Services, Inc. on January 20, 2009.
Vacuum applied to monitoring wells MW-4 and MW-17.
0.01 and 0.97 feet of free-phase petroleum product was measured in MW-4 and MW-17, respectively, prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By: IAI
Checked By:TZS

TABLE 8

AFVR Gauging Data (January 21, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

	Monitoring Well Gauging Data												Air Emissions	
	Vacuum Readings				Depth to Water (feet BTOC)									
Time	MW-2	MW-6	MW-15	MW-18	MW-2	MW-5	MW-6	MW-12	MW-14	MW-15	MW-18	MW-2D	Influent (ppm)	Effluent (ppm)
0945	19	19	19	19	29.03	28.33	29.11	29.81	29.93	28.39	29.42	30.16	730	15
1015	19	21	19	19	AFVR EVENT	28.34	AFVR EVENT	29.81	29.53	AFVR EVENT	AFVR EVENT	30.20	663	15
1045	21	21	19	20		28.35		29.81	29.12			30.23	465	14
1115	21	21	19	20		28.37		29.81	28.88			30.27	445	14
1145	21	21	19	20		28.38		29.81	28.64			30.30	437	14
1215	21	21	19	20		28.41		29.81	28.92			30.35	451	14
1245	21	21	19	20		28.43		29.81	29.19			30.40	447	14
1315	21	21	19	20		28.46		29.81	29.44			30.43	472	14
1345	21	21	19	20		28.49		29.81	29.68			30.46	492	14
1415	21	21	19	20		28.50		29.81	29.76			30.47	490	13
1445	21	21	19	20		28.51		29.81	29.83			30.48	482	13
1515	21	21	19	20		28.52		29.81	29.88			30.49	475	13
1545	21	21	19	20		28.53		29.81	29.92			30.50	471	13
1615	21	21	19	20		28.55		29.81	29.97			30.51	479	13
1645	21	21	19	20		28.56		29.81	30.01			30.52	483	13
1715	21	21	19	20		28.58		29.81	30.05			30.54	487	13
1745	21	21	19	20	29.28	28.59	28.80	29.81	30.08	28.75	30.58	30.55	461	13
	Water Level Change (ft)				0.25	0.26	-0.31	0.00	0.15	0.36	1.16	0.39		

NOTES:

AFVR event performed on January 21, 2009.

0.01, 0.01, 0.19, and 0.19 feet of free-phase petroleum product was detected in MW-2, MW-6, MW-15, and MW-18, respectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

btoc - below top of casing

ppm - parts per million

Water Level Change (feet)= Final depth to water minus initial depth to water; positive = drawdown; negative = rise

Prepared By:IAI
Checked By:TZS

TABLE 9

AFVR Gauging Data (January 21, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #:MW-2, MW-6, MW-15 and MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/21/2009	0945	22	1,763	3	128	92.7	730	0	67.53	932.51	3,730.05	4	1,861.15	1.16E-04	0.47	0.54	0.09
1/21/2009	1015	22	1,771	3	128	92.3	663	0:30	67.84	846.93	3,387.70	4	1,690.33	1.06E-04	0.43	0.50	0.08
1/21/2009	1045	22	1,775	3	128	93.6	465	1:00	67.99	594.00	2,375.99	4	1,185.53	7.40E-05	0.30	0.35	0.06
1/21/2009	1115	22	1,761	3	140	93.0	445	1:30	66.10	568.45	2,273.80	4	1,134.54	7.08E-05	0.28	0.33	0.05
1/21/2009	1145	22	1,757	3	140	92.3	437	2:00	65.95	558.23	2,232.92	4	1,114.14	6.96E-05	0.28	0.32	0.05
1/21/2009	1215	22	1,777	3	140	88.5	451	2:30	66.71	576.11	2,304.46	4	1,149.83	7.18E-05	0.29	0.33	0.05
1/21/2009	1245	22	1,783	3	152	84.2	447	3:00	65.62	571.00	2,284.02	4	1,139.64	7.11E-05	0.28	0.32	0.05
1/21/2009	1315	22	1,794	3	152	82.8	472	3:30	66.02	602.94	2,411.76	4	1,203.37	7.51E-05	0.30	0.34	0.06
1/21/2009	1345	22	1,822	3	152	81.6	492	4:00	67.05	628.49	2,513.95	4	1,254.37	7.83E-05	0.32	0.36	0.06
1/21/2009	1415	22	1,844	3	152	79.5	490	4:30	67.86	625.93	2,503.73	4	1,249.27	7.80E-05	0.32	0.37	0.06
1/21/2009	1445	22	1,841	3	152	78.2	482	5:00	67.75	615.71	2,462.86	4	1,228.87	7.67E-05	0.31	0.36	0.06
1/21/2009	1515	22	1,847	3	152	77.1	475	5:30	67.97	606.77	2,427.09	4	1,211.02	7.56E-05	0.31	0.36	0.06
1/21/2009	1545	22	1,853	3	152	76.4	471	6:00	68.19	601.66	2,406.65	4	1,200.83	7.50E-05	0.31	0.35	0.06
1/21/2009	1615	22	1,867	3	150	74.4	479	6:30	68.93	611.88	2,447.53	4	1,221.22	7.62E-05	0.32	0.36	0.06
1/21/2009	1645	22	1,877	3	150	73.1	483	7:00	69.30	616.99	2,467.97	4	1,231.42	7.69E-05	0.32	0.37	0.06
1/21/2009	1715	22	1,872	3	148	72.7	487	7:30	69.35	622.10	2,488.40	4	1,241.62	7.75E-05	0.32	0.37	0.06
1/21/2009	1745	22	1,863	3	146	71.8	461	8:00	69.24	588.89	2,355.55	4	1,175.33	7.34E-05	0.30	0.35	0.06
Average Values		22	1,816	3	145	82.6	496		67.61	633.45	2,533.79	4	1264.26	7.89279E-05	0.32	0.37	0.06
B_{ws}	0.217	B_{wsw}	0.131														

Total Pounds of Carbon Recovered as Emissions: 2.5616

Total Pounds of Gasoline Recovered as Emissions: 2.9645

Total Gallons of Gasoline Recovered as Emissions: 0.4743

NOTES:

AFVR event performed by Excalibur Environmental Services, Inc. on January 21, 2009.
Vacuum applied to monitoring wells MW-2, MW-6, MW-15, and MW-18.
0.01, 0.01, 0.19, and 0.19 feet of free-phase petroleum product was detected in MW-2, MW-6, MW-15, and MW-18, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By:IAI
Checked By:TZS

TABLE 10

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-1	12/13/96	NA	20.6	1.74	2.61	6.4	31.35	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	2.6	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	12/13/96	NA	249	22.5	43.5	363	678	11.1	900	NT	NT
	02/10/98	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	1.92	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	0.23	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	120	ND	6.8	170	296.8	ND	240	0.33	NT
	05/29/07	0.26	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.02	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2D	02/10/98	NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	3.7	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND	ND	ND	NT
MW-3	02/10/98	NA	62.5	6.4	19.3	193	281.2	ND	106	ND	NT
	03/29/99	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06					Monitoring Well Abandoned					
MW-3R	02/24/06	NA	40.0	ND	ND	81.0	121	ND	120	0.90	NT
	05/29/07	NA	48.0	ND	ND	109.0	157	ND	140	0.51	NT
	09/09/08	NA	23.2	ND	ND	17.7	40.9	ND	63.2	0.44	ND
	02/23/09	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NA	2.2	ND	1.73	150	153.93	ND	186	ND	NT
	03/29/99	NA	ND	ND	ND	10.6	10.6	ND	26.2	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND	49.6	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	0.96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09					Dry					
MW-5	02/10/98	NA	16.5	ND	ND	6.83	23.33	ND	33.3	ND	NT
	03/29/99	NA	ND	ND	1.13	6.26	7.39	ND	50.2	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	25.2	11.5	5.10	32.4	74.2	ND	5.0	NT	NT
	02/02/04	NA	23.1	4.0	2.0	8.7	37.8	ND	ND	NT	NT
	01/20/05	NA	11.0	ND	ND	ND	11.0	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/23/09	NA	1.0	5.9	2.8	7.8	17.5	ND	9.7	ND	NT
MW-6	02/10/98	NA	523.0	1,670	104	434	2,731	92.7	409	ND	NT
	03/29/99	1.83	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	>3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	>3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	2.19	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	1.72	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	1.54	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.42	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09					Dry					
MW-7	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	12.9	ND	ND	11.6	24.5	6.8	20.1	NT	NT
	01/28/03	NA	6.2	ND	ND	4.0	10.2	3.2	6.0	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	3.8	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	34.0	ND	ND	40.6	74.6	2.8	89.0	0.23	NT
MW-8	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT

Prepared By: IAI
Checked By: TZS

TABLE 10

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-9	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	NT	NT	NT	NT
MW-12	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	09/09/08	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
	02/23/09					Dry					
MW-13	02/24/06	NA	100	ND	ND	110	210	ND	100	0.76	NT
	05/29/07	NA	160	ND	ND	199	359	ND	170	0.62	NT
	09/09/08	NA	77	ND	ND	101	178	ND	226	0.162	ND
	02/23/09	NA	23.5	ND	ND	46.2	69.7	ND	68.1	0.18	NT
MW-14	02/24/06	NA	160	34.0	480	620	1,294	ND	160	0.46	NT
	05/29/07	NA	220	ND	550	700	1,470	ND	250	0.26	NT
	09/09/08	NA	82.4	3.81	54.8	67.1	208.11	ND	75	0.118	ND
	02/23/09	NA	175	9.9	303	119.8	607.7	1.9	194	0.20	NT
MW-15	02/24/06	NA	100	8.0	25.0	160	293	ND	140	0.54	NT
	05/29/07	NA	190	12.0	21	240	463	ND	390	0.45	NT
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.13	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-17	02/23/09	0.79	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	0.45	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSL's
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established.
RBSL = Risk Based Screening Level
*** - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.**

Prepared By: IAI
Checked By: TZS

TABLE 11
Laboratory Analytical Results
8-RCRA Metals
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Arsenic (µg/L)	Barium (µg/L)	Mercury (µg/L)	Cadmium (µg/L)	Selenium (µg/L)	Chromium (µg/L)	Silver (µg/L)	Lead (µg/L)
SC DHEC RBSL		50	2000	2	5	50	100	5	15
MW-1	12/13/96	NT	NT	NT	NT	NT	NT	NT	NT
	02/10/98	NT	NT	NT	NT	NT	NT	NT	41.0
	03/29/99	NT	NT	NT	NT	NT	NT	NT	14.0
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/03/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	35.2
	02/23/09	ND	227	ND	ND	ND	11.3	ND	9.6
MW-2	12/13/96	NT	NT	NT	NT	NT	NT	NT	NT
	02/10/98	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-2D	02/10/98	NT	NT	NT	NT	NT	NT	NT	32.0
	03/29/99	NT	NT	NT	NT	NT	NT	NT	ND
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/03/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	70.5	ND	ND	ND	ND	ND	ND
MW-3	02/10/98	NT	NT	NT	NT	NT	NT	NT	ND
	03/29/99	NT	NT	NT	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	Well Abandoned							
MW-3R	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	30.9
	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NT	NT	NT	NT	NT	NT	NT	11.0
	03/29/99	NT	NT	NT	NT	NT	NT	NT	11.0
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry							
MW-5	02/10/98	NT	NT	NT	NT	NT	NT	NT	38.0
	03/29/99	NT	NT	NT	NT	NT	NT	NT	70.0
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	38.9	ND	ND	ND	12.7	ND	10.6
MW-6	02/10/98	NT	NT	NT	NT	NT	NT	NT	NT
	03/29/99	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry							
MW-7	09/15/99	NT	NT	NT	NT	NT	NT	NT	48.0
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	ND	204	0.35	ND	ND	39.6	ND	23.1
MW-8	09/15/99	NT	NT	NT	NT	NT	NT	NT	ND
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	ND	56.4	0.47	ND	ND	5.8	ND	ND

Prepared By: IAI
Checked By:TZS

TABLE 11
Laboratory Analytical Results
8-RCRA Metals
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Arsenic (µg/L)	Barium (µg/L)	Mercury (µg/L)	Cadmium (µg/L)	Selenium (µg/L)	Chromium (µg/L)	Silver (µg/L)	Lead (µg/L)
SC DHEC RBSL		50	2000	2	5	50	100	5	15
MW-9	02/03/04	NT	NT	NT	NT	NT	NT	NT	14.0
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	459
	02/23/09	114	5,410	1.2	55.0	64.0	1,720	ND	1,010
MW-10	02/02/04	NT	NT	NT	NT	NT	NT	NT	ND
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	420
	02/23/09	14.8	928	1.5	30.2	25.3	474	ND	328
MW-11	02/02/04	NT	NT	NT	NT	NT	NT	NT	5.0
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	6.4	3,040	2.7	137	39.4	827	ND	1,180
MW-12	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	24.5
	02/23/09	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-13	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	52.9	0.82	ND	ND	ND	ND	ND
MW-14	2/24 2006	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	5.7	902	ND	36.8	22.8	451	ND	251
MW-15	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
MW-16	02/23/09	ND	82	1.5	ND	ND	21.7	ND	10.7
MW-17	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established.
RBSL = Risk Based Screening Level
*** - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.**

Prepared By: IAI
Checked By:TZS

TABLE 12

Laboratory Analytical Results
Polynuclear Aromatic Hydrocarbons-Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Acenaphthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Naphthalene (µg/L)	TPH (DRO) (µg/L)
SC DHEC RBSL		10	10	10	25	NE
MW-1	12/13/96	NT	NT	NT	NT	NT
	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	3/13/2006	ND	ND	ND	ND	470
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-2	12/13/96	NT	NT	NT	NT	NT
	02/10/98	NS	NS	NS	NS	NS
	03/29/99	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS
	03/13/06	14.0	29.0	49.0	320	260,000
	05/29/07	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS
	02/23/09	NS	NS	NS	NS	NS
MW-2D	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-3	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS
	02/23/06	Well Abandoned				
MW-3R	03/13/06	ND	5.8	ND	79.0	4,000
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NS	NS	NS	NS	NS
MW-4	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NS	NS	NS	NS	NS
	02/23/09	Dry				
MW-5	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-6	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS
	02/23/06	NS	NS	NS	NS	NS
	05/29/07	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS
	02/23/09	Dry				
MW-7	09/15/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-8	09/15/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT

Prepared By: IAI
Checked By:TZS

TABLE 12

Laboratory Analytical Results
Polynuclear Aromatic Hydrocarbons-Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Acenaphthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Naphthalene (µg/L)	TPH (DRO) (µg/L)
SC DHEC RBSL		10	10	10	25	NE
MW-9	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-10	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-11	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-12	03/13/06	ND	ND	ND	ND	220
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	Dry				
MW-13	03/13/06	5.0	8.6	8.7	160	7,500
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-14	03/13/06	ND	ND	ND	59.0	4,000
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-15	03/13/06	ND	7.4	6.7	230	5,200
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NS	NS	NS	NS	NS
MW-16	02/23/09	NT	NT	NT	NT	NT
MW-17	02/23/09	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established.
RBSL = Risk Based Screening Level
*** - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.**

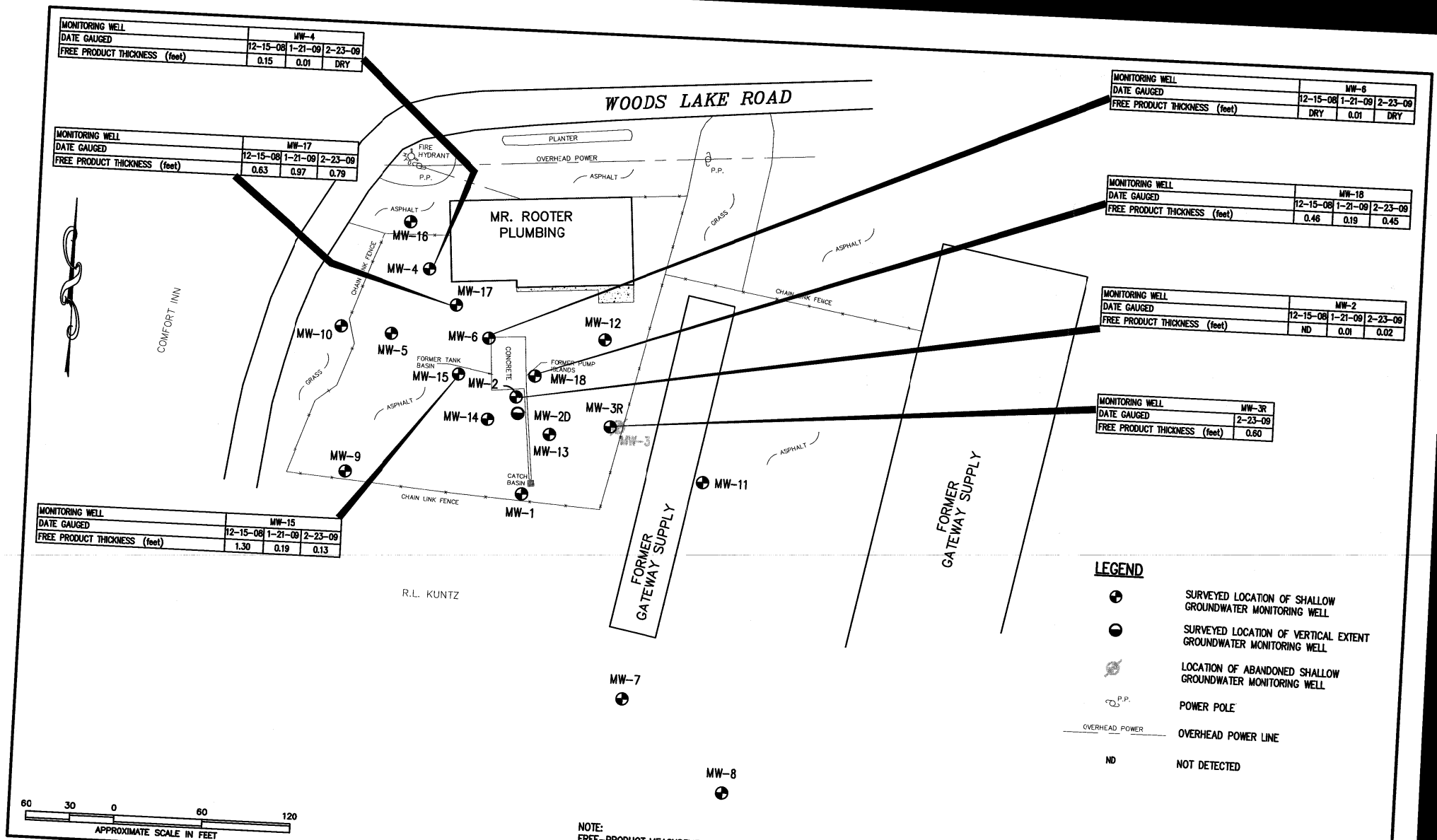
Prepared By: IAI
Checked By:TZS

FIGURES

1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 10-20-08	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-13SLM		FIGURE 1
APPROVED:	JOB NO: J09-1010-13		



NOTE:
FREE-PRODUCT MEASUREMENTS TAKEN ON 2-23-09 WAS DURING THE CURRENT SAMPLING EVENT.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

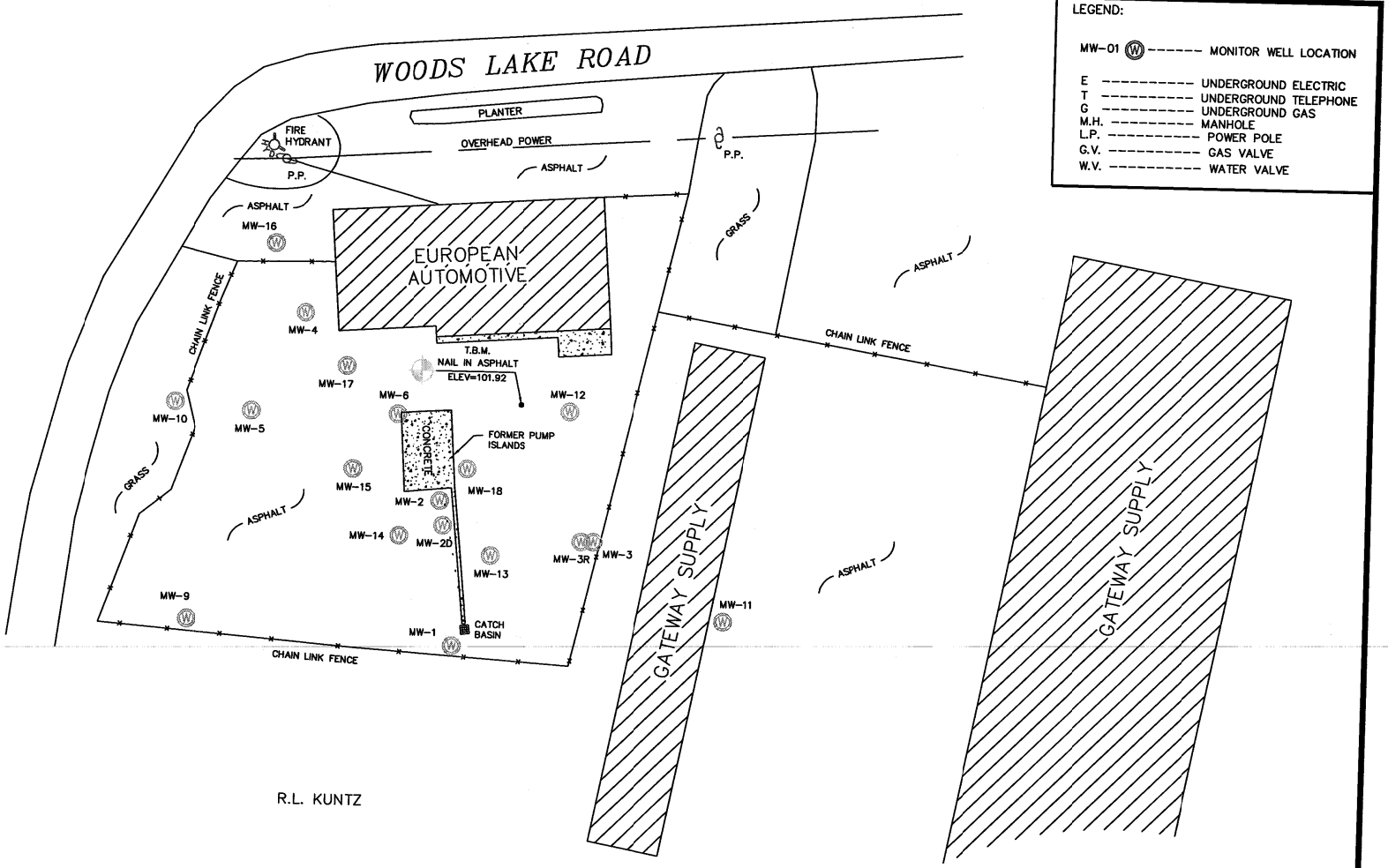
DRAWN BY:	AEH	DATE:	03-24-09
CHECKED BY:	IAI	FILE:	FORMERRTT-13SAM
APPROVED BY:		JOB NO:	J09-1010-13

REVISIONS		
No.	DESCRIPTION	BY

BLE INC. BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

SITE ASSESSMENT AND FREE-PRODUCT MEASUREMENT MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 2



WELL	ELEVATION		NORTHING	EASTING
	GROUND	TOP OF CASING		
MW-1	98.48	100.70	N 1000.00	E 1000.00
MW-2	100.54	100.10	N 1066.27	E 993.15
MW-2D	99.76	99.29	N 1055.06	E 994.75
MW-3	99.57	102.06	N 1048.90	E 1063.56
MW-4	102.91	102.67	N 1150.90	E 929.86
MW-5	101.71	101.48	N 1105.82	E 906.08
MW-6	102.12	101.74	N 1105.53	E 972.90
MW-7	92.97	92.67	N 863.22	E 1075.49
MW-8	88.87	88.76	N 802.40	E 1147.33
MW-9	102.65	102.26	N 1009.83	E 878.63
MW-10	104.67	104.57	N 1109.01	E 871.36
MW-11	100.92	100.66	N 1013.74	E 1123.41
MW-12	101.68	101.38	N 1108.23	E 1051.76
MW-13	98.95	98.62	N 1041.65	E 1016.79
MW-14	99.83	99.30	N 1049.99	E 974.53
MW-15	100.58	100.39	N 1080.04	E 952.85
MW-3R	99.57	99.00	N 1048.82	E 1058.04
MW-16	103.03	102.74	N 1182.37	E 915.64
MW-17	102.49	102.09	N 1127.08	E 949.27
MW-18	100.74	100.39	N 1081.05	E 1005.28

REVISED 3-20-09 ADDED MW-16, MW 17, MW-18
REVISED 2-21-06 ADDED MW-3R, MW 12, MW-13, MW-14 & MW-15

EAS
PROFESSIONALS, INC.
153 BROZZINI CT. SUITE C
GREENVILLE, S.C. 29615
PHONE (864) 234-7388

COMPREHENSIVE SITE SURVEY
FOR BUNNELL-LAMMONS ENGINEERING, INC.
DATE: 4-12-04 | SCALE: 1" = 50' | DWG #296
S.C. REG. NO. 17933

SOUTH CAROLINA EAS PROFESSIONALS, INC. No. 3363 CERTIFICATE OF AUTHORIZATION

A COMPLETE BOUNDARY SURVEY WAS NOT DONE AT THIS TIME.

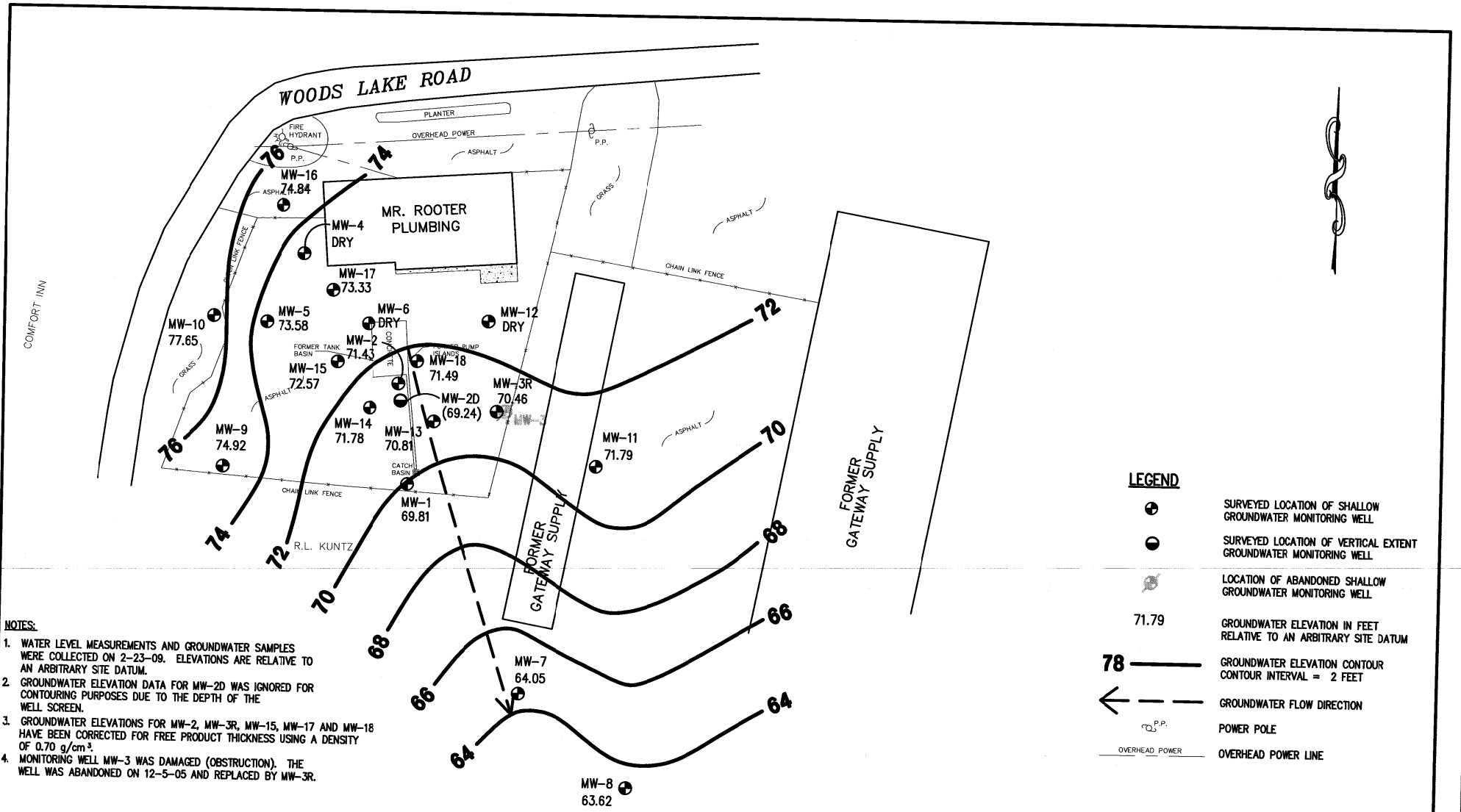
FIGURE 3

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

09616



LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 71.79 — GROUNDWATER ELEVATION IN FEET RELATIVE TO AN ARBITRARY SITE DATUM
- 78 — GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 2-23-09. ELEVATIONS ARE RELATIVE TO AN ARBITRARY SITE DATUM.
2. GROUNDWATER ELEVATION DATA FOR MW-2D WAS IGNORED FOR CONTOURING PURPOSES DUE TO THE DEPTH OF THE WELL SCREEN.
3. GROUNDWATER ELEVATIONS FOR MW-2, MW-3R, MW-15, MW-17 AND MW-18 HAVE BEEN CORRECTED FOR FREE PRODUCT THICKNESS USING A DENSITY OF 0.70 g/cm³.
4. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.

60 30 0 60 120
APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY: AEH	DATE: 03-20-09	REVISIONS	
CHECKED BY: IAI	FILE: FORMERRTT-13POT	No. / DESCRIPTION / BY	
APPROVED BY:	JOB NO: J09-1010-13		

BLE INC. BUSSELL-LAMBOMS ENGINEERING, INC.
9004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 4

APPENDICES

APPENDIX A

MONITORING WELL CONSTRUCTION DETAILS, BORING LOGS

APPENDIX A

MONITORING WELL CONSTRUCTION PROCEDURES

Type II Well

Type II ground-water monitoring wells borings were advanced using a Geoprobe 6600 DT drilling rig utilizing 4 ¼-inch inner diameter (ID) hollow stem augers. The monitoring well casings consist of 2-inch ID, schedule 40 polyvinyl chloride (PVC) casing with flush-threaded joints installed in an 8 ½-inch nominal diameter augered borehole. The bottom 10-foot section of each well is a manufactured well screen with 0.010-inch wide machined slots. . The well screen was installed to the depth of the boring and bracketed the water table. To help prevent cross-contamination, the downhole boring equipment was steam cleaned prior to use and after each subsequent boring.

General

In Type II wells, a washed sand filter pack was emplaced around the outside of the pipe from the bottom of the well casing to at least 2 feet above the top of the well screen. The sand filter pack was used to stabilize the formation and to help yield a less turbid ground-water sample.

A two-foot thick (minimum) bentonite seal was installed on top of the sand filter pack to seal the monitoring well at the desired level. The well annulus was then grouted to the surface with a cement/bentonite grout mixture. A lockable PVC cap and a steel, bolted manhole cover was secured over the wells.

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-16

PROJECT: Former Ryder Truck Terminal — PROJECT NO.: J08-1010-13

CLIENT: Allen Vaughn — START: 11-19-08 END: 11-20-08

LOCATION: Greenville, South Carolina — ELEVATION: 103.03

DRILLER: Landprobe, T. Coon — LOGGED BY: I. Irizarry

DRILLING METHOD: Geoprobe Truck Mount 6600; 4-1/4 inch hollow stem augers

DEPTH TO - WATER> INITIAL: ▽ 19.3 AFTER 24 HOURS: ▼ 28.52 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	MONITOR WELL INSTALLATION DETAILS
0	12-inches of ASPHALT and GRAVEL		SURFACE COMPLETION: Flush mount at ground surface secured with an 8-inch diameter steel bolted manhole cover. All wells grouted to surface.
0	Reddish-brown, dry to moist, medium to fine clayey SILT		Ground surface elev. = 103.03 feet
2			Top of PVC casing elev. = 102.74 feet
100 4			All elevations are relative to an arbitrary site datum
6			
95 8			
10			Neat cement, 0 to 20.0 feet
12			
90 14			
16			
85 18			
▽ 20			Bentonite seal, 20.0 to 22.0 feet
22			Filter pack, sand 22.0 to 34.5 feet
80 24			
26			
75 28 ▼			
30			2-inch diameter, 0.010- inch slotted Schedule 40 PVC well screen, 24.2 to 34.2 feet
32			
70 34			Pipe cap
36	Boring terminated at 34.5 feet. Groundwater encountered at 19.5 feet at time of drilling and at 28.52 feet after 24 hours.		Total well depth, 34.4 feet
65 38			

GEOT_WELLNB 1010-13.GPJ 5/7/09

MW # 16

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: (last) (first)
Address:
City: State: Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Former Rydee Truck Term
Street Address: Woods Lake Rd
City: Greenville SC Zip: 29615
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
* Reddish Brown, dry-moist, Medium to Fine, Clayey silt	34.5	34.5
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
22' to 20'
Bentonite chips

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

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) 34.5 ft. Date Started: 11-19-08 Date Completed: 11-20-08

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☒
Surface 2" ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☒ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10'
Set Between: 34 ft. and 24 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 34.5 ft. to 22 ft.
Effective size 20/40 Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 20' ft. to Surface ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☒ No Type: _____ Amount: _____

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

19. WELL DRILLER: Tom Coon CERT. NO.: 1961
Address: (Print) 6004 Ponders Ct Greenville SC 29615
Level: A ☐ B ☐ C ☐ D ☒ (circle one)
Telephone No.: 864-288-1265 Fax No.: 864-288-4430

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: Tom Coon Well Driller Date: 11-19-08

If D Level Driller, provide supervising driller's name: Joseph G. Smith #1648

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-17

PROJECT: Former Ryder Truck Terminal — PROJECT NO.: J08-1010-13

CLIENT: Allen Vaughn — START: 11-19-08 END: 11-20-08

LOCATION: Greenville, South Carolina — ELEVATION: 102.49

DRILLER: Landprobe, T. Coon — LOGGED BY: I. Irizarry

DRILLING METHOD: Geoprobe Truck Mount 6600; 4-1/4 inch hollow stem augers

DEPTH TO - WATER> INITIAL: ▽ 20.5 AFTER 24 HOURS: ▼ 28.98 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	MONITOR WELL INSTALLATION DETAILS
100 / 2	12-inches of ASPHALT and GRAVEL		SURFACE COMPLETION Flush mount at ground surface secured with an 8-inch diameter steel bolted manhole cover. All wells grouted to surface.
	Reddish-brown, dry to moist, medium to fine clayey SILT		Ground surface elev. = 102.47 feet
4			Top of PVC casing elev. = 102.09 feet
95 / 6			All elevations are relative to an arbitrary site datum
8			
10			Neat cement, 0 to 21.0 feet
90 / 12			
14			
16			
85 / 18			
20 ▽			Bentonite seal, 21.0 to 23.0 feet
80 / 22			Filter pack, sand 23.0 to 35.0 feet
24			
26			
75 / 28 ▼			
30			2-inch diameter, 0.010- inch slotted Schedule 40 PVC well screen, 24.8 to 34.8 feet
70 / 32			
34			
36	Boring terminated at 35.0 feet. Groundwater encountered at 20.5 feet at time of drilling and at 28.98 feet after 24 hours.		Pipe cap
65 / 38			Total well depth, 35.0 feet

MW# 17

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: (last) (first)
Address:
City: State: Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Former Ryder Truck Terminal
Street Address: Woodsdale Rd
City: Greenville SC Zip: 29615
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish-Brown, dry - moist, medium - fine, Clayey silt	35	35
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
23' to 21'
Bentonite Chips

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

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) 35 ft. Date Started: 11-19-08 Date Completed: 11-20-08

10. CASING: ☒ Threaded ☐ Welded
Diam.: 2" Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☒ Surface 2" ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☒ No

11. SCREEN: Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10'
Set Between: 35 ft. and 25 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 35 ft. to 23' ft.
Effective size 20/40 Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 21' ft. to Surface ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☒ No Type: _____ Amount: _____

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

19. WELL DRILLER: Tom Coon CERT. NO.: 1961
Address: (Print) 6004 Ponders Ct Greenville SC 29615
Level: A ☐ B ☐ C ☐ D ☒ (circle one)
Telephone No.: 864-288-1265 Fax No.: 864-288-4430

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: 11-19-08
Well Driller

If D Level Driller, provide supervising driller's name:
Joseph B Smith # 1648

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-18

PROJECT: Former Ryder Truck Terminal — PROJECT NO.: J08-1010-13

CLIENT: Allen Vaughn — START: 11-20-08 END: 11-20-08

LOCATION: Greenville, South Carolina — ELEVATION: 100.74

DRILLER: Landprobe, T. Coon — LOGGED BY: I. Irizarry

DRILLING METHOD: Geoprobe Truck Mount 6600; 4-1/4 inch hollow stem augers

DEPTH TO - WATER> INITIAL: ▽ 24 AFTER 24 HOURS: ▼ 29.38 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	MONITOR WELL INSTALLATION DETAILS
100 / 0	12-inches of ASPHALT and GRAVEL		SURFACE COMPLETION: Flush mount at ground surface secured with an 8-inch diameter steel bolted manhole cover. All wells grouted to surface.
	Reddish-brown, dry to moist, medium to fine clayey SILT		Ground surface elev. = 100.74 feet
95 / 6			Top of PVC casing elev. = 100.59 feet
			All elevations are relative to an arbitrary site datum
90 / 10			Neat cement, 0 to 20.9 feet
85 / 16			
80 / 20			Bentonite seal, 20.9 to 22.9 feet
24 ▽			Filter pack, sand 22.9 to 35.6 feet
75 / 26	PARTIALLY WEATHERED ROCK which sampled as yellowish-brown to brown, moist to wet, medium to fine silty SAND		
30 ▼			2-inch diameter, 0.010- inch slotted Schedule 40 PVC well screen, 25.4 to 35.4 feet
70 / 32			
34			
65 / 36	Boring terminated at 35.6 feet. Groundwater encountered at 24 feet at time of drilling and at 29.38 feet after 24 hours.		Pipe cap
			Total well depth, 35.6 feet
38			

GEOT_WELLNB 1010-13.GPJ 5/7/09

MW # 18

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: (last) (first)
Address:
City: State: Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Former Ryder Truck Term.
Street Address: Woodslake Rd
City: Greenville SC Zip: 29615
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Reddish-Brown, dry-moist, medium-fine clayey silt	25	25
PWR, sampled as yellowish Brown dry, moist-wet, med-fine silty sand	10.6	35.6
*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 Auger

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) 35.6 ft. Date Started: 11-20-08 Date Completed: 11-20-08

10. CASING: ☒ Threaded ☐ Welded
Diam.: PVC
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☒
Surface 2" ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: .010 Length: 10'
Set Between: 35 ft. and 25 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 35.6 ft. to 22.9 ft.
Effective size 20/40 Uniformity Coefficient _____

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

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☒ No Type: _____ Amount: _____

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

19. WELL DRILLER: Tom Cook CERT. NO.:
Address: (Print) 6004 Panders CT Greenville SC 29615
Level: A ☐ B ☐ C ☐ D ☒ (circle one)
Telephone No.: 864-288-1265 Fax No.: 864-288-4430

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: Tom Cook Well Driller Date: 11-20-08

If D Level Driller, provide supervising driller's name:
Joe G Smith #1648

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

KEY TO SOIL CLASSIFICATIONS AND CONSISTENCY DESCRIPTIONS

BUNNELL-LAMMONS ENGINEERING, INC.
GREENVILLE, SOUTH CAROLINA

Penetration Resistance* Blows per Foot	Relative Density
SANDS	
0 to 4	Very Loose
5 to 10	Loose
11 to 20	Firm
21 to 30	Very Firm
31 to 50	Dense
over 50	Very Dense

Penetration Resistance* Blows per Foot	Consistency
SILTS and CLAYS	
0 to 2	Very Soft
3 to 4	Soft
5 to 8	Firm
9 to 15	Stiff
16 to 30	Very Stiff
31 to 50	Hard
over 50	Very Hard

*ASTM D 1586

Particle Size Identification

Boulder: Greater than 300 mm
Cobble: 75 to 300 mm
Gravel:
Coarse - 19 to 75 mm
Fine - 4.75 to 19 mm
Sand:
Coarse - 2 to 4.75 mm
Medium - 0.425 to 2 mm
Fine - 0.075 to 0.425 mm
Silt & Clay: Less than 0.075 mm

KEY TO DRILLING SYMBOLS


Grab Sample


Split Spoon Sample


Undisturbed Sample

NR = No reaction to HCL

NA = Not applicable

NS = No sample


Groundwater Table at Time of Drilling

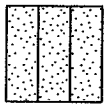

Groundwater Table 24 Hours after Completion of Drilling

KEY TO SOIL CLASSIFICATIONS


Well-graded Gravel
GW

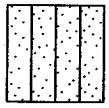

Low Plasticity Clay
CL

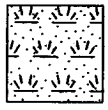

Clayey Silt
MH


Silty Sand
SM

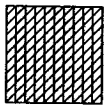

Poorly-graded Gravel
GP

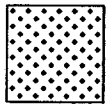

Sandy Clay
CLS

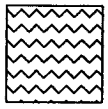

Sandy Silt
MLS


Topsoil
TOPSOIL

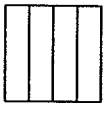

Partially Weathered Rock
BLDRCBBL

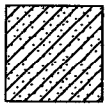

Silty Clay
CL-ML

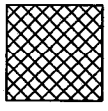

Sand
SW

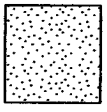

Trash
MUCKPEAT


High Plasticity Clay
CH


Silt
ML


Clayey Sand
SC


Fill
FILL


Poorly Graded Sand
SP

APPENDIX B

DISPOSAL RECORDS

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **29741**

Date 1-13-09 Load Number 01

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: BLE, INC

Contact: Mr. Trevor Benton Phone: 864-288-1265 Fax: 864-288-4430

GENERATOR: Estate of Robert B. Vaughn

Address: 4 East Parker Road, Greenville, SC 29611 County: Greenville

Contact: — Phone:

WASTE ORIGINATION POINT: Complete Address: Former Ryder Truck Terminal 10 Woods Lake Road, Greenville, SC

Class & Type of Contaminate in soil Petroleum SCDHEC # 11929

SOURCE OF CONTAMINATION: (ex. UST or other source) UST System

GENERATORS CERTIFICATION OF WASTE CONSTITUENTS: In lieu of submitting analytical data (methods 8240 and 8270) verifying that the waste in question does not contain organic constituents other than those which would normally appear in analysis of virgin petroleum product residue, I am submitting this Certificate of Waste Constituents. I certify that I am familiar with the source of contamination of the soil and further certify the source, to the best of my knowledge, contains no contaminants other than that listed above.

Generators Signature: Date:

TRANSPORTER: Excalibur Env. Services, INC.

Contact: Bradley A. Morris Phone: 864-967-9744

As the carrier, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured, and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Carrier Signature: Bradley A. Morris Date: 1-13-09

TRUCK #: 01 TAG #: — VOLUME: 60 DRUMS

TRUCK DRIVER SIGNATURE: Bradley Morris DATE: 1-13-09

DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina.

Facility Signature: Ray Towery Date: 1/13/09

Signature: William Brown Date: 1/13/09

Company Name ESI Title:

White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 218

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Ryder Truck Terminal
10 Woods Lake Rd.
Greenville, SC
c/o Excalibur Environmental
403 Cotton Hall Court
Simpsonville, SC 29680

4. Generator's Phone ( ) 967 - 9744

5. Transporter 1 Company Name: Excalibur Environmental

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone (864) 967-9744

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 South Main Street
Mauldin, SC 29662

10. US EPA ID Number
SCR000762468

E. State Facility's ID

F. Facility's Phone (864) 962-9953

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum Impacted Water #8629			1,025	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SCDHEC SITE # 11929

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: BRADLEY A. MORRIS
Signature: Bradley A. Morris Agent for FRTT
Date: Month 12 Day 16 Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: BRADLEY A. MORRIS
Signature: Bradley A. Morris
Date: Month 12 Day 16 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: RYAN BLACKSTONE
Signature:
Date: Month 12 Day 16 Year 08

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 235

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Ryder Truck Terminal
10 Woods Lake Road
Greenville, SC
Generator's Phone ( )

Excalibur Environmental
403 Cotton Hall Court
Simpsonville, SC 29680
967-9744

5. Transporter 1 Company Name
Excalibur Environmental

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone (864) 967-9744

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 South Main Street
Moultrie, SC 29582

10. US EPA ID Number
SCR000782689

E. State Facility's ID

F. Facility's Phone (864) 962-9993

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum Impacted Water #6629			875	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SCDHEC SITE # 11929

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Agent for FRTT

Printed/Typed Name: BRADLEY A. MORRIS
Signature: Bradley A. Morris
Date: Month 1 Day 22 Year 09

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: BRADLEY A. MORRIS
Signature: Bradley A. Morris
Date: Month 1 Day 22 Year 09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Ryan Blackstone
Signature:
Date: Month 1 Day 22 Year 09

NON-HAZARDOUS WASTE

CF14

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 245 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Ryder Truck Terminal
10 Woods Lake Rd.
Greenville, SC
c/o Excalibur Environmental
403 Cotton Hall Court
Simpsonville, SC 29680

4. Generator's Phone 957-9744

5. Transporter 1 Company Name: Excalibur Environmental
6. US EPA ID Number

A. State Transporter's ID
B. Transporter 1 Phone (864) 957-9744

7. Transporter 2 Company Name
8. US EPA ID Number

C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 South Main Street
Mauldin, SC 29662

10. US EPA ID Number: SCR000782488

E. State Facility's ID
F. Facility's Phone (864) 962-8953

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Petroleum Impacted Water #0829			1 DRUM	
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SCDHEC PERMIT # 11929

GENERATOR

18. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: BRADLEY A. MORRIS
Signature: Agent for FRTT Bradley Morris
Date: Month 2 Day 27 Year 09

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: BRADLEY A. MORRIS
Signature: Bradley Morris
Date: Month 2 Day 27 Year 09

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
VLS

Printed/Typed Name: Chris Turner
Signature: Chris Turner
Date: Month 2 Day 27 Year 09

NON-HAZARDOUS WASTE

APPENDIX C

PURGING AND SAMPLING PROCEDURES, AND FIELD SAMPLING LOGS

APPENDIX C

MONITORING WELL PURGING AND SAMPLING PROCEDURES

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well development). Therefore, the monitoring wells which required purging were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the ground-water quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated as required.

The monitoring wells were purged using 42-inch long disposable bailers attached to an unused polypropylene cord. To minimize the potential for cross-contamination between wells, a new clean bailer was used for each well.

Samples for VOC analysis were placed in laboratory prepared 40-milliliter glass vials with Teflon® lined lids and marked with identifying numbers. The VOC samples were preserved using hydrochloric acid (HCl). Samples for 8-RCRA Metals were placed in 250ml plastic bottles with preserved with Nitric acid and marked with identifying numbers. The sample containers were maintained at approximately 4° Celsius in a refrigerated sample cooler and shipped to PACE Analytical Services in Huntersville, NC via overnight delivery service for analysis.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	3.89	ft
Length of Water Colum (LWC = TWD-DGW)	27.11	ft
1 Casing Volume (LWC*C) = 27.11 X .17 =	4.61	gals
3 Casing Volumes = 3 X 4.61 =	13.83	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1130							
pH (s.u)	5.34							
Specific Conductivity	83.8							
Water Temperature (°C)	12.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	1.32							

Remarks: Well sampled at 11:30 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.02	ft
Total Well Depth (TWD)	35.00	ft
Depth to Groundwater (DGW)	28.68	ft
Length of Water Colum (LWC = TWD-DGW)	6.32	ft
1 Casing Volume (LWC*C) = 6.32 X .17 =	1.07	gals
3 Casing Volumes = 3 X 1.07 = (Standard Purge Volume)	3.22	gals

~~Total Volume of Water Purged Before Sampling~~ NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.02 feet of free product present.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	54.50	ft
Depth to Groundwater (DGW)	30.05	ft
Length of Water Colum (LWC = TWD-DGW)	24.45	ft
1 Casing Volume (LWC*C) = 24.45 X .17 =	4.16	gals
3 Casing Volumes = 3 X 4.16 =	12.47	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 12.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0	4.0	4.0	12.5				
Time (military)	1320	1325	1330	1350				
pH (s.u)	5.99	6.02	6.15	5.94				
Specific Conductivity	0.4	116.7	115.2	118.0				
Water Temperature (°C)	19.6	19.3	19.2	19.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Oxygen (mg/l)	2.5							

Remarks: Well Sampled at 13:50 on Februar 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	02/23/09
Field Personnel	Ivan A. Irizarry
General weather Conditions	Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C)	11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-3R

Well Diameter (D)	2	inch of	32.40	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.60	ft
Total Well Depth (TWD)	32.40	ft
Depth to Groundwater (DGW)	28.96	ft
Length of Water Colum (LWC = TWD-DGW)	3.44	ft
1 Casing Volume (LWC*C) = 3.44 X .17 =	0.58	gals
3 Casing Volumes = 3 X 0.58 =	1.75	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.6 feet of free product present.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	02/23/09
Field Personnel	Ivan A. Irizarry
General weather Conditions	Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C)	11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D)	2	inch of	29.50 feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.50	ft
Depth to Groundwater (DGW)	Dry	ft
Length of Water Colum (LWC = TWD-DGW)		NA ft
1 Casing Volume (LWC*C) =	NA X .17 =	NA gals
3 Casing Volumes = 3 X	NA =	NA gals
	(Standard Purge Volume)	

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well Dry.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-5

Well Diameter (D) 2 inch of 29.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.00	ft
Depth to Groundwater (DGW)	27.9	ft
Length of Water Colum (LWC = TWD-DGW)	1.10	ft
1 Casing Volume (LWC*C) = 1.10 X .17 =	0.19	gals
3 Casing Volumes = 3 X 0.19 =	0.56	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1200							
pH (s.u)	5.90							
Specific Conductivity	0.37							
Water Temperature (°C)	18.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	0.79							

Remarks: Well sampled at 12:00 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D) 2 inch of 29.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.00	ft
Depth to Groundwater (DGW)	Dry	ft
Length of Water Colum (LWC = TWD-DGW)		NA ft
1 Casing Volume (LWC*C) =	NA X .17 =	NA gals
3 Casing Volumes = 3 X	NA =	NA gals
	(Standard Purge Volume)	

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well Dry.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	02/23/09		
Field Personnel	Ivan A. Irizarry		
General weather Conditions	Sunny, Slight Breeze, Cool		
Ambient Air Temperature (°C)	11.6		
Facility Name:	Fmr Ryder Truck Terminal	Site ID#	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-7		
Well Diameter (D)	2	inch of	32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2			
for a 2 inch well C = 0.163			
for a 4 inch well C = 0.652			
*Free Product Thickness	NA	ft	
Total Well Depth (TWD)	32.80	ft	
Depth to Groundwater (DGW)	28.62	ft	
Length of Water Colum (LWC = TWD-DGW)			4.18 ft
1 Casing Volume (LWC*C) =	4.18	X .17 =	0.71 gals
3 Casing Volumes = 3 X	0.71	=	2.13 gals
	(Standard Purge Volume)		
Total Volume of Water Purged Before Sampling			NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1035							
pH (s.u)	4.53							
Specific Conductivity	37.5							
Water Temperature (°C)	18.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	0.83							

Remarks: Well sampled at 10:35 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.80	ft
Depth to Groundwater (DGW)	25.14	ft
Length of Water Colum (LWC = TWD-DGW)	4.66	ft

1 Casing Volume (LWC*C) = 4.66 X .17 = 0.79 gals
3 Casing Volumes = 3 X 0.79 = 2.38 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1055							
pH (s.u)	4.24							
Specific Conductivity	32.0							
Water Temperature (°C)	18.2							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.02							

Remarks: Well sampled at 10:55 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.70	ft
Depth to Groundwater (DGW)	27.39	ft
Length of Water Colum (LWC = TWD-DGW)	3.31	ft
1 Casing Volume (LWC*C) = 3.31 X .17 =	0.56	gals
3 Casing Volumes = 3 X 0.56 =	1.69	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1215							
pH (s.u)	6.35							
Specific Conductivity	5.64							
Water Temperature (°C)	18.9							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy							
Dissolved Oxygen (mg/l)	4.68							

Remarks: Well sampled at 12:15 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	02/23/09
Field Personnel	Ivan A. Irizarry
General weather Conditions	Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C)	11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-10

Well Diameter (D)	2	inch of	30.10	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness		ft
Total Well Depth (TWD)	30.10	ft
Depth to Groundwater (DGW)	27.02	ft
Length of Water Colum (LWC = TWD-DGW)		3.08 ft
1 Casing Volume (LWC*C) =	3.08 X .17 =	0.52 gals
3 Casing Volumes = 3 X	0.52 =	1.57 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1000							
pH (s.u)	4.98							
Specific Conductivity	141.3							
Water Temperature (°C)	17.0							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy							
Dissolved Oxygen (mg/l)	0.63							

Remarks: Well sampled at 10:00 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	28.87	ft
Length of Water Colum (LWC = TWD-DGW)	2.13	ft
1 Casing Volume (LWC*C) = 2.13 X .17 =	0.36	gals
3 Casing Volumes = 3 X 0.36 (Standard Purge Volume) =	1.09	gals

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1020							
pH (s.u)	4.23							
Specific Conductivity	14.07							
Water Temperature (°C)	16.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy							
Dissolved Oxygen (mg/l)	2.13							

Remarks: Well sampled at 10:20 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-12

Well Diameter (D) 2 inch of 30.90 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.90	ft
Depth to Groundwater (DGW)	Dry	ft
Length of Water Colum (LWC = TWD-DGW)		NA ft
1 Casing Volume (LWC*C) =	NA X .17 =	NA gals
3 Casing Volumes = 3 X	NA =	NA gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well Dry.

D H E C

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Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-13

Well Diameter (D) 2 inch of 33.20 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	33.20	ft
Depth to Groundwater (DGW)	27.81	ft
Length of Water Colum (LWC = TWD-DGW)		5.39 ft
1 Casing Volume (LWC*C) =	5.39 X .17 =	0.92 gals
3 Casing Volumes = 3 X	0.92 =	2.75 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1240							
pH (s.u)	5.69							
Specific Conductivity	159.7							
Water Temperature (°C)	19.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.41							

Remarks: Well sampled at 12:40 on February 23, 2009. A sheen of free-phase product was noted during sampling.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	02/23/09		
Field Personnel	Ivan A. Irizarry		
General weather Conditions	Sunny, Slight Breeze, Cool		
Ambient Air Temperature (°C)	11.6		
Facility Name:	Fmr Ryder Truck Terminal	Site ID#	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-14		
Well Diameter (D)	2 inch of	32.00	feet(ft)
conversion factor (C): 3.143*(D/2)^2			
for a 2 inch well C = 0.163			
for a 4 inch well C = 0.652			
*Free Product Thickness	NA	ft	
Total Well Depth (TWD)	32.00	ft	
Depth to Groundwater (DGW)	27.52	ft	
Length of Water Colum (LWC = TWD-DGW)		4.48	ft
1 Casing Volume (LWC*C) =	4.48 X .17 =	0.76	gals
3 Casing Volumes = 3 X	0.76 =	2.28	gals
	(Standard Purge Volume)		
Total Volume of Water Purged Before Sampling	NA	gals	

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1305							
pH (s.u)	5.52							
Specific Conductivity	81.7							
Water Temperature (°C)	79.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	0.81							

Remarks: Well sampled at 13:05 on February 23, 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D) 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.13	ft
Total Well Depth (TWD)	33.50	ft
Depth to Groundwater (DGW)	27.91	ft
Length of Water Colum (LWC = TWD-DGW)		5.59 ft
1 Casing Volume (LWC*C) =	5.59 X .17 =	0.95 gals
3 Casing Volumes = 3 X	0.95 =	2.85 gals
	(Standard Purge Volume)	

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.13 feet of free product present.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	02/23/09
Field Personnel	Ivan A. Irizarry
General weather Conditions	Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C)	11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-16

Well Diameter (D)	2	inch of	34.40	feet(ft)

conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	34.40	ft
Depth to Groundwater (DGW)	27.9	ft
Length of Water Colum (LWC = TWD-DGW)	6.50	ft
1 Casing Volume (LWC*C) = 6.50 X .17 =	1.11	gals
3 Casing Volumes = 3 X 1.11 =	3.32	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 3.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0	1.0	2.0	3.5				
Time (military)	1415	1420	1425	1430				
pH (s.u)	5.77	5.31	5.10	5.08				
Specific Conductivity	82.10	76.51	69.20	67.00				
Water Temperature (°C)	19.9	19.3	20.3	20.2				
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Oxygen (mg/l)	0.83							

Remarks: Well sampled at 14:30 on February 23. 2009.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.79	ft
Total Well Depth (TWD)	35.00	ft
Depth to Groundwater (DGW)	29.31	ft
Length of Water Colum (LWC = TWD-DGW)	5.69	ft

1 Casing Volume (LWC*C) = 5.69 X .17 = 0.97 gals
3 Casing Volumes = 3 X 0.97 = 2.90 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.79 feet of free product present.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 02/23/09
Field Personnel Ivan A. Irizarry
General weather Conditions Sunny, Slight Breeze, Cool
Ambient Air Temperature (°C) 11.6

Facility Name: Fmr Ryder Truck Terminal Site ID# 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter (D) 2 inch of 35.60 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.45	ft
Total Well Depth (TWD)	35.60	ft
Depth to Groundwater (DGW)	29.21	ft
Length of Water Colum (LWC = TWD-DGW)	6.39	ft
1 Casing Volume (LWC*C) = 6.39 X .17 =	1.09	gals
3 Casing Volumes = 3 X 1.09 = (Standard Purge Volume)	3.26	gals

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.45 feet of free product present.

APPENDIX D

LABORATORY ANALYTICAL DATA

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(704)875-9092

March 10, 2009

Mr. Trevor Benton
Bunnell-Lammons Engineering
6004 Ponders Court
Greenville, SC 29615

RE: Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Dear Mr. Benton:
Enclosed are the analytical results for sample(s) received by the laboratory on February 24, 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 Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

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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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-1 **Lab ID: 9238596001** Collected: 02/23/09 11:30 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.028**	ug/L	0.020	1	03/03/09 14:56	03/07/09 03:38	106-93-4	
1-Chloro-2-bromopropane (S)	72	%	60-140	1	03/03/09 14:56	03/07/09 03:38	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:44	7440-38-2	
Barium	**227**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:44	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/26/09 19:44	7440-43-9	
Chromium	**11.3**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:44	7440-47-3	
Lead	**9.6**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:44	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/26/09 19:44	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:44	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/26/09 15:50	02/27/09 16:05	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/01/09 16:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 16:25	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/09 16:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/01/09 16:25	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 16:25	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/01/09 16:25	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/01/09 16:25	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109	1		03/01/09 16:25	460-00-4	
Dibromofluoromethane (S)	108	%	85-115	1		03/01/09 16:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	79-120	1		03/01/09 16:25	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		03/01/09 16:25	2037-26-5	

Sample: MW-2D **Lab ID: 9238596002** Collected: 02/23/09 13:50 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	1	03/03/09 15:06	03/07/09 10:47	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140	1	03/03/09 15:06	03/07/09 10:47	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:48	7440-38-2	
Barium	**70.5**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:48	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/26/09 19:48	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:48	7440-47-3	
Lead	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:48	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/26/09 19:48	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:48	7440-22-4	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-2D **Lab ID: 9238596002** Collected: 02/23/09 13:50 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/26/09 15:50	02/27/09 16:08	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	**1.1**	ug/L	1.0	1		03/01/09 16:48	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 16:48	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/09 16:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/01/09 16:48	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 16:48	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/01/09 16:48	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/01/09 16:48	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109	1		03/01/09 16:48	460-00-4	
Dibromofluoromethane (S)	107	%	85-115	1		03/01/09 16:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120	1		03/01/09 16:48	17060-07-0	
Toluene-d8 (S)	102	%	70-120	1		03/01/09 16:48	2037-26-5	

Sample: MW-5 **Lab ID: 9238596003** Collected: 02/23/09 12:00 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	1	03/03/09 15:06	03/07/09 11:33	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140	1	03/03/09 15:06	03/07/09 11:33	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:51	7440-38-2	
Barium	**38.9**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:51	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/26/09 19:51	7440-43-9	
Chromium	**12.7**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:51	7440-47-3	
Lead	**10.6**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:51	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/26/09 19:51	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:51	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/26/09 15:50	02/27/09 16:10	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	**1.0**	ug/L	1.0	1		03/03/09 17:24	71-43-2	
Ethylbenzene	**2.8**	ug/L	1.0	1		03/03/09 17:24	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/03/09 17:24	1634-04-4	
Naphthalene	**9.7**	ug/L	1.0	1		03/03/09 17:24	91-20-3	
Toluene	**5.9**	ug/L	1.0	1		03/03/09 17:24	108-88-3	
m&p-Xylene	**5.5**	ug/L	2.0	1		03/03/09 17:24	1330-20-7	
o-Xylene	**2.3**	ug/L	1.0	1		03/03/09 17:24	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109	1		03/03/09 17:24	460-00-4	
Dibromofluoromethane (S)	103	%	85-115	1		03/03/09 17:24	1868-53-7	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-5 **Lab ID: 9238596003** Collected: 02/23/09 12:00 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane-d4 (S)	108	%	79-120	1		03/03/09 17:24	17060-07-0	
Toluene-d8 (S)	99	%	70-120	1		03/03/09 17:24	2037-26-5	

Sample: MW-7 **Lab ID: 9238596004** Collected: 02/23/09 10:35 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.23**	ug/L	0.019	1	03/03/09 15:06	03/07/09 12:03	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140	1	03/03/09 15:06	03/07/09 12:03	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:55	7440-38-2	
Barium	**204**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:55	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/26/09 19:55	7440-43-9	
Chromium	**39.6**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:55	7440-47-3	
Lead	**23.1**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:55	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/26/09 19:55	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:55	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.35**	ug/L	0.20	1	02/26/09 15:50	02/27/09 16:13	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	**34.0**	ug/L	1.0	1		03/01/09 17:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 17:36	100-41-4	
Methyl-tert-butyl ether	**2.8**	ug/L	1.0	1		03/01/09 17:36	1634-04-4	
Naphthalene	**89.9**	ug/L	1.0	1		03/01/09 17:36	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 17:36	108-88-3	
m&p-Xylene	**10.8**	ug/L	2.0	1		03/01/09 17:36	1330-20-7	
o-Xylene	**29.8**	ug/L	1.0	1		03/01/09 17:36	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109	1		03/01/09 17:36	460-00-4	
Dibromofluoromethane (S)	102	%	85-115	1		03/01/09 17:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120	1		03/01/09 17:36	17060-07-0	
Toluene-d8 (S)	99	%	70-120	1		03/01/09 17:36	2037-26-5	

Sample: MW-8 **Lab ID: 9238596005** Collected: 02/23/09 10:55 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	1	03/03/09 15:06	03/07/09 12:18	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140	1	03/03/09 15:06	03/07/09 12:18	301-79-56	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-8 **Lab ID: 9238596005** Collected: 02/23/09 10:55 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:59	7440-38-2	
Barium	**56.4**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:59	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/26/09 19:59	7440-43-9	
Chromium	**5.8**	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:59	7440-47-3	
Lead	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:59	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/26/09 19:59	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:59	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.47**	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:21	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/03/09 17:48	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/03/09 17:48	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/03/09 17:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/03/09 17:48	91-20-3	
Toluene	ND	ug/L	1.0	1		03/03/09 17:48	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/03/09 17:48	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/03/09 17:48	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109	1		03/03/09 17:48	460-00-4	
Dibromofluoromethane (S)	104	%	85-115	1		03/03/09 17:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	79-120	1		03/03/09 17:48	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		03/03/09 17:48	2037-26-5	

Sample: MW-9 **Lab ID: 9238596006** Collected: 02/23/09 12:15 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	1	03/03/09 15:07	03/07/09 12:33	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140	1	03/03/09 15:07	03/07/09 12:33	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**114**	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	7440-38-2	
Barium	**5410**	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	7440-39-3	
Cadmium	**55.0**	ug/L	5.0	5	02/25/09 16:15	02/27/09 12:34	7440-43-9	
Chromium	**1720**	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	7440-47-3	
Lead	**1010**	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	7439-92-1	
Selenium	**64.0**	ug/L	50.0	5	02/25/09 16:15	02/27/09 12:34	7782-49-2	
Silver	ND	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**1.2**	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:29	7439-97-6	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-9 **Lab ID: 9238596006** Collected: 02/23/09 12:15 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/01/09 18:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 18:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/09 18:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/01/09 18:23	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 18:23	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/01/09 18:23	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/01/09 18:23	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109	1		03/01/09 18:23	460-00-4	
Dibromofluoromethane (S)	107	%	85-115	1		03/01/09 18:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120	1		03/01/09 18:23	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		03/01/09 18:23	2037-26-5	

Sample: MW-10 **Lab ID: 9238596007** Collected: 02/23/09 10:00 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	1	03/03/09 15:07	03/07/09 12:48	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140	1	03/03/09 15:07	03/07/09 12:48	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**14.8**	ug/L	5.0	1	02/25/09 16:15	02/26/09 20:11	7440-38-2	
Barium	**928**	ug/L	5.0	1	02/25/09 16:15	02/26/09 20:11	7440-39-3	
Cadmium	**30.2**	ug/L	1.0	1	02/25/09 16:15	02/26/09 20:11	7440-43-9	
Chromium	**474**	ug/L	5.0	1	02/25/09 16:15	02/26/09 20:11	7440-47-3	
Lead	**328**	ug/L	5.0	1	02/25/09 16:15	02/26/09 20:11	7439-92-1	
Selenium	**25.3**	ug/L	10.0	1	02/25/09 16:15	02/26/09 20:11	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 20:11	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**1.5**	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:31	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/01/09 18:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 18:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/09 18:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/01/09 18:47	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 18:47	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/01/09 18:47	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/01/09 18:47	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109	1		03/01/09 18:47	460-00-4	
Dibromofluoromethane (S)	103	%	85-115	1		03/01/09 18:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120	1		03/01/09 18:47	17060-07-0	
Toluene-d8 (S)	99	%	70-120	1		03/01/09 18:47	2037-26-5	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-11 **Lab ID: 9238596008** Collected: 02/23/09 10:20 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	0.023	1	03/03/09 15:07	03/07/09 13:04	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140	1	03/03/09 15:07	03/07/09 13:04	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**6.4**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:21	7440-38-2	M0
Barium	**3040**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:21	7440-39-3	M0
Cadmium	**137**	ug/L	1.0	1	02/25/09 16:15	02/27/09 05:21	7440-43-9	M0
Chromium	**827**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:21	7440-47-3	M0
Lead	**1180**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:21	7439-92-1	M0
Selenium	**39.4**	ug/L	10.0	1	02/25/09 16:15	02/27/09 05:21	7782-49-2	M0
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:21	7440-22-4	M0
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**2.7**	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:34	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/01/09 19:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 19:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/09 19:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/01/09 19:11	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 19:11	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/01/09 19:11	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/01/09 19:11	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109	1		03/01/09 19:11	460-00-4	
Dibromofluoromethane (S)	108	%	85-115	1		03/01/09 19:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	79-120	1		03/01/09 19:11	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		03/01/09 19:11	2037-26-5	

Sample: MW-13 **Lab ID: 9238596009** Collected: 02/23/09 12:40 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.18**	ug/L	0.019	1	03/03/09 15:07	03/07/09 13:19	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140	1	03/03/09 15:07	03/07/09 13:19	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:42	7440-38-2	
Barium	**52.9**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:42	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/27/09 05:42	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:42	7440-47-3	
Lead	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:42	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/27/09 05:42	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:42	7440-22-4	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-13 **Lab ID: 9238596009** Collected: 02/23/09 12:40 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.82**	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:36	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	**23.5**	ug/L	1.0	1		03/03/09 18:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/03/09 18:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/03/09 18:11	1634-04-4	
Naphthalene	**68.1**	ug/L	1.0	1		03/03/09 18:11	91-20-3	
Toluene	ND	ug/L	1.0	1		03/03/09 18:11	108-88-3	
m&p-Xylene	**2.2**	ug/L	2.0	1		03/03/09 18:11	1330-20-7	
o-Xylene	**44.0**	ug/L	1.0	1		03/03/09 18:11	95-47-6	
4-Bromofluorobenzene (S)	105	%	87-109	1		03/03/09 18:11	460-00-4	
Dibromofluoromethane (S)	102	%	85-115	1		03/03/09 18:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120	1		03/03/09 18:11	17060-07-0	
Toluene-d8 (S)	93	%	70-120	1		03/03/09 18:11	2037-26-5	

Sample: MW-14 **Lab ID: 9238596010** Collected: 02/23/09 13:05 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.20**	ug/L	0.020	1	03/03/09 15:07	03/07/09 13:34	106-93-4	
1-Chloro-2-bromopropane (S)	87	%	60-140	1	03/03/09 15:07	03/07/09 13:34	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**5.7**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:50	7440-38-2	
Barium	**902**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:50	7440-39-3	
Cadmium	**36.8**	ug/L	1.0	1	02/25/09 16:15	02/27/09 05:50	7440-43-9	
Chromium	**451**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:50	7440-47-3	
Lead	**251**	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:50	7439-92-1	
Selenium	**22.8**	ug/L	10.0	1	02/25/09 16:15	02/27/09 05:50	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 05:50	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:38	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	**175**	ug/L	25.0	25		03/01/09 19:58	71-43-2	
Ethylbenzene	**303**	ug/L	25.0	25		03/01/09 19:58	100-41-4	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	1		03/03/09 18:35	1634-04-4	
Naphthalene	**194**	ug/L	1.0	1		03/03/09 18:35	91-20-3	
Toluene	**9.9**	ug/L	1.0	1		03/03/09 18:35	108-88-3	
m&p-Xylene	**6.8**	ug/L	2.0	1		03/03/09 18:35	1330-20-7	
o-Xylene	**113**	ug/L	1.0	1		03/03/09 18:35	95-47-6	
4-Bromofluorobenzene (S)	108	%	87-109	1		03/03/09 18:35	460-00-4	
Dibromofluoromethane (S)	102	%	85-115	1		03/03/09 18:35	1868-53-7	

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

Sample: MW-14 **Lab ID: 9238596010** Collected: 02/23/09 13:05 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,2-Dichloroethane-d4 (S)	104	%	79-120	1		03/03/09 18:35	17060-07-0	
Toluene-d8 (S)	98	%	70-120	1		03/03/09 18:35	2037-26-5	

Sample: MW-16 **Lab ID: 9238596011** Collected: 02/23/09 14:30 Received: 02/24/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	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	1	03/03/09 15:07	03/07/09 13:49	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140	1	03/03/09 15:07	03/07/09 13:49	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-38-2	
Barium	**82.0**	ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15	02/27/09 06:05	7440-43-9	
Chromium	**21.7**	ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-47-3	
Lead	**10.7**	ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/27/09 06:05	7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**1.5**	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/01/09 20:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/09 20:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/01/09 20:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/01/09 20:22	91-20-3	
Toluene	ND	ug/L	1.0	1		03/01/09 20:22	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		03/01/09 20:22	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/01/09 20:22	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109	1		03/01/09 20:22	460-00-4	
Dibromofluoromethane (S)	109	%	85-115	1		03/01/09 20:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	79-120	1		03/01/09 20:22	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		03/01/09 20:22	2037-26-5	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: MERP/2000 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9238596001, 9238596002, 9238596003, 9238596004

METHOD BLANK: 242254 Matrix: Water
Associated Lab Samples: 9238596001, 9238596002, 9238596003, 9238596004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/27/09 15:03	

LABORATORY CONTROL SAMPLE: 242255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.2	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 242413 242414

Parameter	Units	9237900007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.7	99	107	75-125	7	

SAMPLE DUPLICATE: 242415

Parameter	Units	9238542004 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.45	0.30	41	R1

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: MERP/2003 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011

METHOD BLANK: 243851 Matrix: Water
Associated Lab Samples: 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/03/09 10:59	

LABORATORY CONTROL SAMPLE: 243852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	3.0	119	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 243853 243854

Parameter	Units	9238809002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	3.2	25	25	14.0	12.7	43	38	75-125	10	M0

SAMPLE DUPLICATE: 243855

Parameter	Units	9238816001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	0.97	0.76	24	

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(704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: OEXT/6036
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9238596001

METHOD BLANK: 244049
Matrix: Water
Associated Lab Samples: 9238596001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	03/06/09 21:13	
1-Chloro-2-bromopropane (S)	%	97	60-140	03/06/09 21:13	

LABORATORY CONTROL SAMPLE & LCSD: 244050 244051

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	0.30	110	106	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				97	97	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 244052 244053

Parameter	Units	9238815014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.33	0.33	120	120	60-140	0	
1-Chloro-2-bromopropane (S)	%						101	102	60-140		

SAMPLE DUPLICATE: 244054

Parameter	Units	9238815015 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%		97	4	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: MPRP/3883 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9238596008, 9238596009, 9238596010, 9238596011

METHOD BLANK: 241305 Matrix: Water
Associated Lab Samples: 9238596008, 9238596009, 9238596010, 9238596011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/27/09 05:14	
Barium	ug/L	ND	5.0	02/27/09 05:14	
Cadmium	ug/L	ND	1.0	02/27/09 05:14	
Chromium	ug/L	ND	5.0	02/27/09 05:14	
Lead	ug/L	ND	5.0	02/27/09 05:14	
Selenium	ug/L	ND	10.0	02/27/09 05:14	
Silver	ug/L	ND	5.0	02/27/09 05:14	

LABORATORY CONTROL SAMPLE: 241306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	458	92	80-120	
Barium	ug/L	500	467	93	80-120	
Cadmium	ug/L	500	463	93	80-120	
Chromium	ug/L	500	463	93	80-120	
Lead	ug/L	500	469	94	80-120	
Selenium	ug/L	500	455	91	80-120	
Silver	ug/L	250	224	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 241307 241308

Parameter	Units	9238596008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	6.4	500	500	267	263	52	51	75-125	2	M0
Barium	ug/L	3040	500	500	3080	3180	8	28	75-125	3	M0
Cadmium	ug/L	137	500	500	383	399	49	52	75-125	4	M0
Chromium	ug/L	827	500	500	1050	1100	45	56	75-125	5	M0
Lead	ug/L	1180	500	500	1320	1290	28	23	75-125	2	M0
Selenium	ug/L	39.4	500	500	217	218	36	36	75-125	.5	M0
Silver	ug/L	ND	250	250	165	171	65	68	75-125	4	M0

SAMPLE DUPLICATE: 241309

Parameter	Units	9238596009 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		
Barium	ug/L	52.9	51.9	2	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	1.3J		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

SAMPLE DUPLICATE: 241309

Parameter	Units	9238596009 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	.37J		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: MSV/6260 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9238596001, 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011

METHOD BLANK: 243594 Matrix: Water
Associated Lab Samples: 9238596001, 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/01/09 13:15	
Ethylbenzene	ug/L	ND	1.0	03/01/09 13:15	
m&p-Xylene	ug/L	ND	2.0	03/01/09 13:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/01/09 13:15	
Naphthalene	ug/L	ND	1.0	03/01/09 13:15	
o-Xylene	ug/L	ND	1.0	03/01/09 13:15	
Toluene	ug/L	ND	1.0	03/01/09 13:15	
1,2-Dichloroethane-d4 (S)	%	107	79-120	03/01/09 13:15	
4-Bromofluorobenzene (S)	%	98	87-109	03/01/09 13:15	
Dibromofluoromethane (S)	%	106	85-115	03/01/09 13:15	
Toluene-d8 (S)	%	100	70-120	03/01/09 13:15	

LABORATORY CONTROL SAMPLE: 243595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.9	100	78-128	
Ethylbenzene	ug/L	50	50.7	101	80-127	
m&p-Xylene	ug/L	100	105	105	82-127	
Methyl-tert-butyl ether	ug/L	50	52.1	104	71-130	
Naphthalene	ug/L	50	64.3	129	52-136	
o-Xylene	ug/L	50	51.7	103	83-124	
Toluene	ug/L	50	48.8	98	76-126	
1,2-Dichloroethane-d4 (S)	%			102	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 243775 243776

Parameter	Units	9238596008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	50	50	55.6	52.1	111	104	74-136	6	
Toluene	ug/L	ND	50	50	55.7	52.4	111	105	73-131	6	
1,2-Dichloroethane-d4 (S)	%						103	102	79-120		
4-Bromofluorobenzene (S)	%						98	98	87-109		
Dibromofluoromethane (S)	%						100	101	85-115		
Toluene-d8 (S)	%						97	97	70-120		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: OEXT/6037 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011

METHOD BLANK: 244057 Matrix: Water
Associated Lab Samples: 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	03/07/09 10:00	
1-Chloro-2-bromopropane (S)	%	119	60-140	03/07/09 10:00	

LABORATORY CONTROL SAMPLE & LCSD: 244058 244059

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	0.31	0.32	110	114	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				97	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 244060 244061

Parameter	Units	9238596002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.41	0.40	148	146	60-140	1	M0
1-Chloro-2-bromopropane (S)	%						119	116	60-140		

SAMPLE DUPLICATE: 244062

Parameter	Units	9238596003 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%		98	5	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

QC Batch: MPRP/3878 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9238596001, 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007

METHOD BLANK: 241283 Matrix: Water
Associated Lab Samples: 9238596001, 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/26/09 18:14	
Barium	ug/L	ND	5.0	02/26/09 18:14	
Cadmium	ug/L	ND	1.0	02/26/09 18:14	
Chromium	ug/L	ND	5.0	02/26/09 18:14	
Lead	ug/L	ND	5.0	02/26/09 18:14	
Selenium	ug/L	ND	10.0	02/26/09 18:14	
Silver	ug/L	ND	5.0	02/26/09 18:14	

LABORATORY CONTROL SAMPLE: 241284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	446	89	80-120	
Barium	ug/L	500	444	89	80-120	
Cadmium	ug/L	500	455	91	80-120	
Chromium	ug/L	500	465	93	80-120	
Lead	ug/L	500	467	93	80-120	
Selenium	ug/L	500	435	87	80-120	
Silver	ug/L	250	225	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 241285 241286

Parameter	Units	9237900001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	ND	500	500	466	436	93	87	75-125	7	
Barium	ug/L	46.2	500	500	501	471	91	85	75-125	6	
Cadmium	ug/L	ND	500	500	464	440	93	88	75-125	5	
Chromium	ug/L	3.9J	500	500	476	452	94	90	75-125	5	
Lead	ug/L	ND	500	500	467	444	93	89	75-125	5	
Selenium	ug/L	ND	500	500	456	433	91	87	75-125	5	
Silver	ug/L	0.24J	250	250	227	216	91	86	75-125	5	

SAMPLE DUPLICATE: 241287

Parameter	Units	9238658001 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		
Barium	ug/L	9.0	8.9	.8	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

SAMPLE DUPLICATE: 241287

Parameter	Units	9238658001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	0.10J	ND		

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QUALIFIERS

Project: FORMER RYDER TRUCK 508-1010-13
Pace Project No.: 9238596

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
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: of 0986716

Section A
Required Client Information:

Company: BLE
Address: 6004 Ponders Court
Email To: Trevor@BLECorp.com
Phone: (864)288-1265 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Trevor
Copy To: Ivan@BLECorp.com
Purchase Order No.:
Project Name: Former Ryder Truck
Project Number: 508-1040-13

Section C
Invoice Information:

Attention: Trevor
Company Name: BLE
Address: Same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1126-9

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ Other

SITE LOCATION

☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☑SC ☐WI ☐OTHER

Section D
Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / .-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	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	Filtered (Y/N)	Requested Analysis: BTEX, VOCs, MTBE 8260B	EDB 8011	8 RCRA Metals 6010	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	MW-1	WT	G			2/23/09	1130		3			1	6						3	3	1		001
2	MW-2D						1350																002
3	MW-5						1200																003
4	MW-7						1035																004
5	MW-8						1055																005
6	MW-9						1215																006
7	MW-10						1000																007
8	MW-11						1020																008
9	MW-13						1240																009
10	MW-14						1305																010
11	MW-16						1430																011
12																							

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Ivan A Irizarry	2/23/09	5:00		02/24/09	

SAMPLE CONDITION

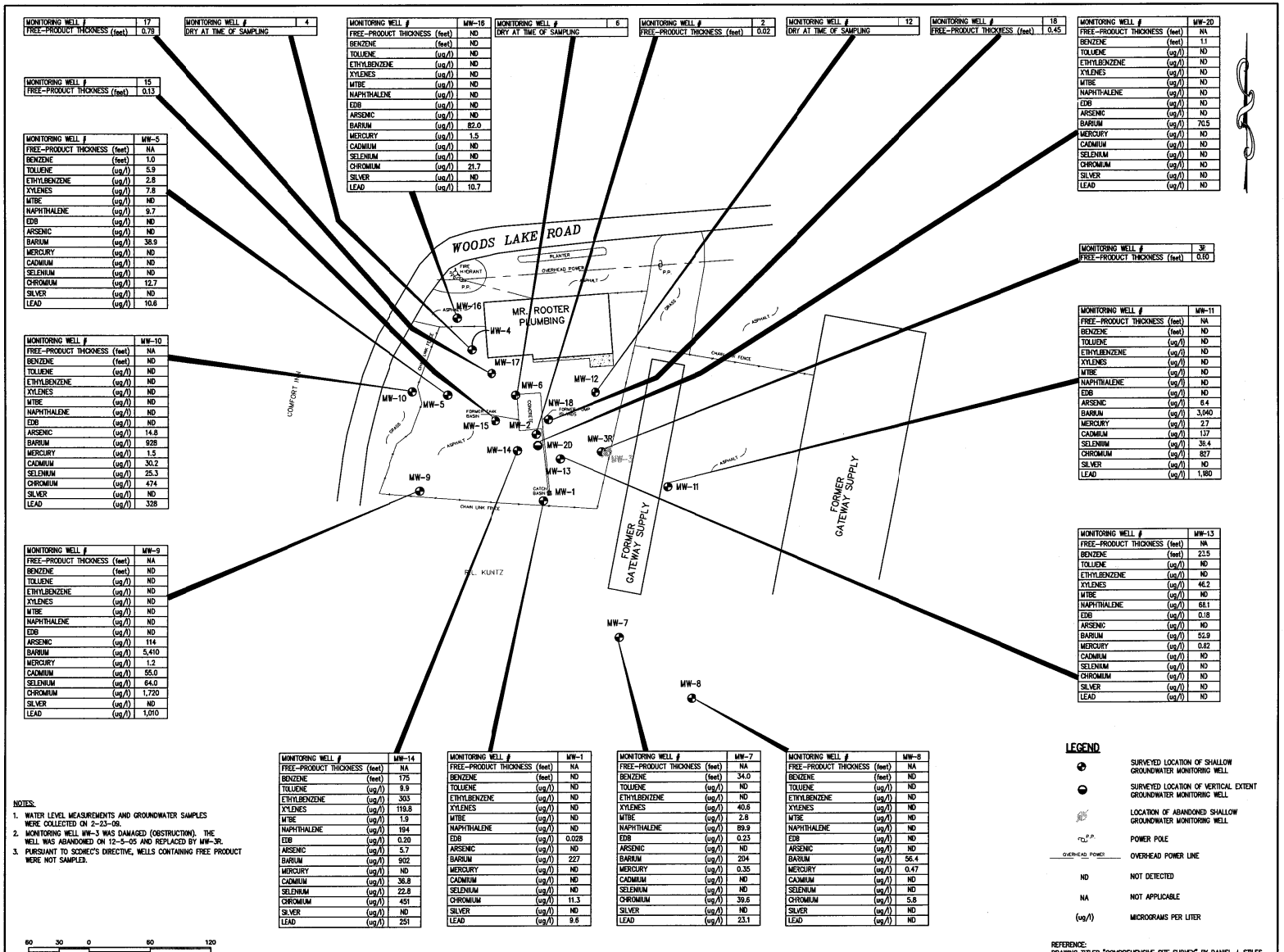
Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
4.0	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ivan A. Irizarry
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY):

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL



MONITORING WELL #	17
FREE-PRODUCT THICKNESS (feet)	0.79

MONITORING WELL #	4
DRY AT TIME OF SAMPLING	

MONITORING WELL #	MW-16
FREE-PRODUCT THICKNESS (feet)	ND
BENZENE (ug/l)	ND
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	ND
EDB (ug/l)	ND
ARSENIC (ug/l)	ND
BARIUM (ug/l)	82.0
MERCURY (ug/l)	1.5
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	21.7
SILVER (ug/l)	ND
LEAD (ug/l)	10.7

MONITORING WELL #	6
DRY AT TIME OF SAMPLING	

MONITORING WELL #	2
FREE-PRODUCT THICKNESS (feet)	0.02

MONITORING WELL #	12
DRY AT TIME OF SAMPLING	

MONITORING WELL #	18
FREE-PRODUCT THICKNESS (feet)	0.45

MONITORING WELL #	MW-20
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	1.1
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTH-ALENE (ug/l)	ND
EDB (ug/l)	ND
ARSENIC (ug/l)	ND
BARIUM (ug/l)	70.5
MERCURY (ug/l)	ND
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	ND
SILVER (ug/l)	ND
LEAD (ug/l)	ND

MONITORING WELL #	15
FREE-PRODUCT THICKNESS (feet)	0.13

MONITORING WELL #	MW-5
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	1.0
TOLUENE (ug/l)	5.9
ETHYLBENZENE (ug/l)	2.8
XYLENES (ug/l)	7.8
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	9.7
EDB (ug/l)	ND
ARSENIC (ug/l)	ND
BARIUM (ug/l)	38.9
MERCURY (ug/l)	ND
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	12.7
SILVER (ug/l)	ND
LEAD (ug/l)	10.8

MONITORING WELL #	3R
FREE-PRODUCT THICKNESS (feet)	0.60

MONITORING WELL #	MW-10
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	ND
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	ND
EDB (ug/l)	ND
ARSENIC (ug/l)	14.8
BARIUM (ug/l)	928
MERCURY (ug/l)	1.5
CADMIUM (ug/l)	30.2
SELENIUM (ug/l)	25.3
CHROMIUM (ug/l)	474
SILVER (ug/l)	ND
LEAD (ug/l)	328

MONITORING WELL #	MW-11
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	ND
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	ND
EDB (ug/l)	ND
ARSENIC (ug/l)	6.4
BARIUM (ug/l)	3,040
MERCURY (ug/l)	2.7
CADMIUM (ug/l)	1.37
SELENIUM (ug/l)	38.4
CHROMIUM (ug/l)	827
SILVER (ug/l)	ND
LEAD (ug/l)	1,180

MONITORING WELL #	MW-9
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	ND
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	ND
EDB (ug/l)	ND
ARSENIC (ug/l)	114
BARIUM (ug/l)	5,410
MERCURY (ug/l)	1.2
CADMIUM (ug/l)	55.0
SELENIUM (ug/l)	64.0
CHROMIUM (ug/l)	1,720
SILVER (ug/l)	ND
LEAD (ug/l)	1,010

MONITORING WELL #	MW-13
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	21.5
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	46.2
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	68.1
EDB (ug/l)	0.18
ARSENIC (ug/l)	ND
BARIUM (ug/l)	52.9
MERCURY (ug/l)	0.82
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	ND
SILVER (ug/l)	ND
LEAD (ug/l)	ND

MONITORING WELL #	MW-14
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	175
TOLUENE (ug/l)	9.9
ETHYLBENZENE (ug/l)	303
XYLENES (ug/l)	119.8
MTBE (ug/l)	1.9
NAPHTHALENE (ug/l)	194
EDB (ug/l)	0.20
ARSENIC (ug/l)	5.7
BARIUM (ug/l)	902
MERCURY (ug/l)	ND
CADMIUM (ug/l)	36.8
SELENIUM (ug/l)	22.8
CHROMIUM (ug/l)	451
SILVER (ug/l)	ND
LEAD (ug/l)	251

MONITORING WELL #	MW-1
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	ND
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	ND
EDB (ug/l)	0.028
ARSENIC (ug/l)	ND
BARIUM (ug/l)	227
MERCURY (ug/l)	ND
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	11.3
SILVER (ug/l)	ND
LEAD (ug/l)	9.6

MONITORING WELL #	MW-7
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	34.0
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	40.6
MTBE (ug/l)	2.8
NAPHTHALENE (ug/l)	89.9
EDB (ug/l)	0.23
ARSENIC (ug/l)	ND
BARIUM (ug/l)	204
MERCURY (ug/l)	0.35
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	39.6
SILVER (ug/l)	ND
LEAD (ug/l)	23.1

MONITORING WELL #	MW-8
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	ND
TOLUENE (ug/l)	ND
ETHYLBENZENE (ug/l)	ND
XYLENES (ug/l)	ND
MTBE (ug/l)	ND
NAPHTHALENE (ug/l)	ND
EDB (ug/l)	ND
ARSENIC (ug/l)	ND
BARIUM (ug/l)	56.4
MERCURY (ug/l)	0.47
CADMIUM (ug/l)	ND
SELENIUM (ug/l)	ND
CHROMIUM (ug/l)	5.8
SILVER (ug/l)	ND
LEAD (ug/l)	ND

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 2-23-09.
2. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-3-05 AND REPLACED BY MW-3R.
3. PURSUANT TO SCDHEC'S DIRECTIVE, WELLS CONTAINING FREE PRODUCT WERE NOT SAMPLED.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- ND NOT DETECTED
- NA NOT APPLICABLE
- (ug/l) MICROGRAMS PER LITER

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

60 30 0 60 120
APPROXIMATE SCALE IN FEET

REVISIONS			DRAWN: AEH	DATE: 03-20-09
No.	DESCRIPTION	BY	CHECKED: IAI	CAD FILE: FORMERRTT-13GWCOC
			APPROVED:	JOB NO: J09-1010-13

BLE INC. BUNNELL-LAMMONS ENGINEERING, INC.
6904 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE NO. 5

TABLE 3

AFVR Gauging Data (December 12, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_t (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
12/12/2008	0900	25	726	3	118	92.7	867	0	29.66	1,017.06	4,068.24	4	2,029.89	1.27E-04	0.23	0.26	0.04
12/12/2008	0930	25	732	3	124	91.4	857	0:30	29.60	1,005.33	4,021.31	4	2,006.48	1.25E-04	0.22	0.26	0.04
12/12/2008	1000	25	743	3	130	92.5	843	1:00	29.73	988.91	3,955.62	4	1,973.70	1.23E-04	0.22	0.25	0.04
12/12/2008	1030	25	751	3	131	92.2	823	1:30	30.00	965.44	3,861.77	4	1,926.88	1.20E-04	0.22	0.25	0.04
12/12/2008	1100	25	760	3	132	91.8	775	2:00	30.31	909.14	3,636.54	4	1,814.49	1.13E-04	0.21	0.24	0.04
12/12/2008	1130	25	754	3	132	88.4	762	2:30	30.07	893.89	3,575.54	4	1,784.06	1.11E-04	0.20	0.23	0.04
12/12/2008	1200	25	761	3	132	86.3	752	3:00	30.35	882.16	3,528.62	4	1,760.65	1.10E-04	0.20	0.23	0.04
12/12/2008	1230	25	758	3	132	85.4	741	3:30	30.23	869.25	3,477.01	4	1,734.89	1.08E-04	0.20	0.23	0.04
12/12/2008	1300	25	762	3	132	79.3	738	4:00	30.39	865.73	3,462.93	4	1,727.87	1.08E-04	0.20	0.23	0.04
12/12/2008	1330	25	758	3	132	75.2	696	4:30	30.23	816.46	3,265.85	4	1,629.53	1.02E-04	0.18	0.21	0.03
12/12/2008	1400	25	763	3	132	78.6	654	5:00	30.43	767.19	3,068.77	4	1,531.20	9.56E-05	0.17	0.20	0.03
12/12/2008	1430	25	777	3	132	75.3	618	5:30	30.99	724.96	2,899.85	4	1,446.91	9.03E-05	0.17	0.19	0.03
12/12/2008	1500	25	754	3	132	76.9	577	6:00	30.07	676.87	2,707.47	4	1,350.92	8.43E-05	0.15	0.18	0.03
12/12/2008	1530	25	764	3	132	75.2	493	6:30	30.47	578.33	2,313.31	4	1,154.25	7.21E-05	0.13	0.15	0.02
12/12/2008	1600	25	772	3	132	73.6	461	7:00	30.79	540.79	2,163.16	4	1,079.33	6.74E-05	0.12	0.14	0.02
12/12/2008	1630	25	760	3	132	74.1	453	7:30	30.31	531.40	2,125.62	4	1,060.60	6.62E-05	0.12	0.14	0.02
12/12/2008	1700	25	765	3	132	72.7	442	8:00	30.51	518.50	2,074.00	4	1,034.85	6.46E-05	0.12	0.14	0.02
Average Values		25	756	3	131	82.4	680		30.24	797.14	3,188.57	4	1590.97	9.93243E-05	0.18	0.21	0.03
B_{ws}	0.148	B_{wsw}	0.089														

Total Pounds of Carbon Recovered as Emissions:	**1.4419**
Total Pounds of Gasoline Recovered as Emissions:	**1.6688**
Total Gallons of Gasoline Recovered as Emissions:	**0.2670**

NOTES:

AFVR event performed by Excalibur Environmental Services, Inc. on December 12, 2008.
Vacuum applied to monitoring wells MW-4 and MW-17.
0.15 and 0.63 feet of free-phase petroleum product measured in MW-4 and MW-17, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By:IAI
Checked By: TZS

TABLE 5

AFVR Gauging data (December 15, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID# MW-2, MW-6, MW-15, AND MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
12/15/2008	0930	22	1,872	3	112	93.7	725	0	75.07	895.77	3,583.10	4	1,787.83	1.12E-04	0.50	0.58	0.09
12/15/2008	1000	22	1,980	3	112	93.4	608	0:30	79.40	751.21	3,004.86	4	1,499.31	9.36E-05	0.45	0.52	0.08
12/15/2008	1030	22	1,893	3	151	92.5	499	1:00	71.07	616.54	2,466.16	4	1,230.52	7.68E-05	0.33	0.38	0.06
12/15/2008	1100	22	1,912	3	151	80.1	489	1:30	71.78	604.18	2,416.74	4	1,205.86	7.53E-05	0.32	0.38	0.06
12/15/2008	1130	22	1,947	3	152	78.4	503	2:00	72.97	621.48	2,485.93	4	1,240.38	7.74E-05	0.34	0.39	0.06
12/15/2008	1200	22	1,989	3	152	72.3	495	2:30	74.55	611.60	2,446.39	4	1,220.65	7.62E-05	0.34	0.39	0.06
12/15/2008	1200	22	2,008	3	153	64.6	486	2:30	75.14	600.48	2,401.91	4	1,198.46	7.48E-05	0.34	0.39	0.06
12/15/2008	1300	22	2,010	3	153	65.7	472	3:30	75.21	583.18	2,332.72	4	1,163.94	7.27E-05	0.33	0.38	0.06
12/15/2008	1330	22	2,017	3	153	62.5	467	4:00	75.47	577.00	2,308.01	4	1,151.61	7.19E-05	0.33	0.38	0.06
12/15/2008	1400	22	2,014	3	156	61.6	461	4:30	74.99	569.59	2,278.36	4	1,136.81	7.10E-05	0.32	0.37	0.06
12/15/2008	1430	22	2,019	3	156	60.5	456	5:00	75.18	563.41	2,253.64	4	1,124.48	7.02E-05	0.32	0.37	0.06
12/15/2008	1500	22	2,024	3	158	57.7	452	5:30	75.12	558.47	2,233.88	4	1,114.62	6.96E-05	0.31	0.36	0.06
12/15/2008	1530	22	2,021	3	158	55.3	448	6:00	75.01	553.53	2,214.11	4	1,104.75	6.90E-05	0.31	0.36	0.06
12/15/2008	1600	22	2,015	3	158	53.2	439	6:30	74.79	542.41	2,169.63	4	1,082.56	6.76E-05	0.30	0.35	0.06
12/15/2008	1630	22	2,018	3	158	52.8	432	7:00	74.90	533.76	2,135.03	4	1,065.30	6.65E-05	0.30	0.35	0.06
12/15/2008	1700	22	2,017	3	158	50.4	426	7:30	74.86	526.34	2,105.38	4	1,050.50	6.56E-05	0.29	0.34	0.05
12/15/2008	1730	22	2,022	3	158	47.3	418	8:00	75.05	516.46	2,065.84	4	1,030.77	6.44E-05	0.29	0.34	0.05
Average Values		22	1,987	3	150	67.2	487		74.74	601.50	2,405.98	4	1200.49	7.49467E-05	0.34	0.39	0.06
B_{ws}	0.191	B_{wsw}	0.115														

Total Pounds of Carbon Recovered as Emissions: **2.6887**

Total Pounds of Gasoline Recovered as Emissions: **3.1116**

Total Gallons of Gasoline Recovered as Emissions: **0.4979**

NOTES:
AFVR event performed by Excalibur Environmental Services, Inc. on December 15, 2008.
Vacuum applied to monitoring wells MW-2, MW-6, MW-15 and MW-18.
1.30 and 0.46 feet of free-phase petroleum product measured in MW-15 and MW-18, respectively prior to initiating the AFVR event.
Prior to initiating the AFVR event, the free-phase petroleum product layer in MW-6 extended below the screened interval, therefore an accurate free-phase petroleum product thickness could not be determined.
No free-phase petroleum product was measured in MW-2 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By:IAI
Checked By:TZS

TABLE 7

AFVR Gauging Data (January 20, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #: MW-4 and MW-17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/20/2009	0945	25	964	3	110	87.1	1,587	0	40.81	1,791.98	7,167.91	4	3,576.51	2.23E-04	0.55	0.63	0.10
1/20/2009	1015	25	970	3	110	87.2	1,481	0:30	41.06	1,672.29	6,689.15	4	3,337.63	2.08E-04	0.51	0.59	0.10
1/20/2009	1045	25	973	3	110	86.6	1,305	1:00	41.19	1,473.56	5,894.22	4	2,940.99	1.84E-04	0.45	0.53	0.08
1/20/2009	1115	25	954	3	110	87.2	983	1:30	40.39	1,109.97	4,439.86	4	2,215.32	1.38E-04	0.34	0.39	0.06
1/20/2009	1145	25	928	3	118	87.8	879	2:00	38.74	992.53	3,970.13	4	1,980.94	1.24E-04	0.29	0.33	0.05
1/20/2009	1215	25	918	3	118	85.8	663	2:30	38.32	748.63	2,994.53	4	1,494.16	9.33E-05	0.21	0.25	0.04
1/20/2009	1245	25	933	3	124	85.4	454	3:00	38.55	512.64	2,050.56	4	1,023.15	6.39E-05	0.15	0.17	0.03
1/20/2009	1315	25	962	3	124	26.2	452	3:30	39.75	510.38	2,041.52	4	1,018.64	6.36E-05	0.15	0.18	0.03
1/20/2009	1345	25	975	3	128	87.4	433	4:00	40.01	488.93	1,955.71	4	975.82	6.09E-05	0.15	0.17	0.03
1/20/2009	1415	25	958	3	128	87.8	421	4:30	39.31	475.38	1,901.51	4	948.78	5.92E-05	0.14	0.16	0.03
1/20/2009	1445	25	963	3	130	86.7	418	5:00	39.38	471.99	1,887.96	4	942.02	5.88E-05	0.14	0.16	0.03
1/20/2009	1515	25	927	3	130	85.1	403	5:30	37.91	455.05	1,820.21	4	908.21	5.67E-05	0.13	0.15	0.02
1/20/2009	1545	25	954	3	132	85.7	394	6:00	38.88	444.89	1,779.56	4	887.93	5.54E-05	0.13	0.15	0.02
1/20/2009	1615	25	954	3	132	83.6	390	6:30	38.88	440.37	1,761.49	4	878.92	5.49E-05	0.13	0.15	0.02
1/20/2009	1645	25	961	3	132	83.6	381	7:00	39.17	430.21	1,720.84	4	858.63	5.36E-05	0.13	0.15	0.02
1/20/2009	1715	25	977	3	132	81.7	317	7:30	39.82	357.94	1,431.78	4	714.40	4.46E-05	0.11	0.12	0.02
1/20/2009	1745	25	962	3	130	80.4	261	8:00	39.34	294.71	1,178.84	4	588.20	3.67E-05	0.09	0.10	0.02
Average Values		25	955	3	123	82.1	660		39.50	745.38	2,981.52	4	1487.66	9.28747E-05	0.22	0.25	0.04
B_{ws}	0.114	B_{wsw}	0.069														

Total Pounds of Carbon Recovered as Emissions:	**1.7610**
Total Pounds of Gasoline Recovered as Emissions:	**2.0380**
Total Gallons of Gasoline Recovered as Emissions:	**0.3261**

NOTES:
AFVR event performed by Excalibur Environmental Services, Inc. on January 20, 2009.
Vacuum applied to monitoring wells MW-4 and MW-17.
0.01 and 0.97 feet of free-phase petroleum product was measured in MW-4 and MW-17, respectively, prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By: IAI
Checked By:TZS

TABLE 9

AFVR Gauging Data (January 21, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #:MW-2, MW-6, MW-15 and MW-18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/21/2009	0945	22	1,763	3	128	92.7	730	0	67.53	932.51	3,730.05	4	1,861.15	1.16E-04	0.47	0.54	0.09
1/21/2009	1015	22	1,771	3	128	92.3	663	0:30	67.84	846.93	3,387.70	4	1,690.33	1.06E-04	0.43	0.50	0.08
1/21/2009	1045	22	1,775	3	128	93.6	465	1:00	67.99	594.00	2,375.99	4	1,185.53	7.40E-05	0.30	0.35	0.06
1/21/2009	1115	22	1,761	3	140	93.0	445	1:30	66.10	568.45	2,273.80	4	1,134.54	7.08E-05	0.28	0.33	0.05
1/21/2009	1145	22	1,757	3	140	92.3	437	2:00	65.95	558.23	2,232.92	4	1,114.14	6.96E-05	0.28	0.32	0.05
1/21/2009	1215	22	1,777	3	140	88.5	451	2:30	66.71	576.11	2,304.46	4	1,149.83	7.18E-05	0.29	0.33	0.05
1/21/2009	1245	22	1,783	3	152	84.2	447	3:00	65.62	571.00	2,284.02	4	1,139.64	7.11E-05	0.28	0.32	0.05
1/21/2009	1315	22	1,794	3	152	82.8	472	3:30	66.02	602.94	2,411.76	4	1,203.37	7.51E-05	0.30	0.34	0.06
1/21/2009	1345	22	1,822	3	152	81.6	492	4:00	67.05	628.49	2,513.95	4	1,254.37	7.83E-05	0.32	0.36	0.06
1/21/2009	1415	22	1,844	3	152	79.5	490	4:30	67.86	625.93	2,503.73	4	1,249.27	7.80E-05	0.32	0.37	0.06
1/21/2009	1445	22	1,841	3	152	78.2	482	5:00	67.75	615.71	2,462.86	4	1,228.87	7.67E-05	0.31	0.36	0.06
1/21/2009	1515	22	1,847	3	152	77.1	475	5:30	67.97	606.77	2,427.09	4	1,211.02	7.56E-05	0.31	0.36	0.06
1/21/2009	1545	22	1,853	3	152	76.4	471	6:00	68.19	601.66	2,406.65	4	1,200.83	7.50E-05	0.31	0.35	0.06
1/21/2009	1615	22	1,867	3	150	74.4	479	6:30	68.93	611.88	2,447.53	4	1,221.22	7.62E-05	0.32	0.36	0.06
1/21/2009	1645	22	1,877	3	150	73.1	483	7:00	69.30	616.99	2,467.97	4	1,231.42	7.69E-05	0.32	0.37	0.06
1/21/2009	1715	22	1,872	3	148	72.7	487	7:30	69.35	622.10	2,488.40	4	1,241.62	7.75E-05	0.32	0.37	0.06
1/21/2009	1745	22	1,863	3	146	71.8	461	8:00	69.24	588.89	2,355.55	4	1,175.33	7.34E-05	0.30	0.35	0.06
Average Values		22	1,816	3	145	82.6	496		67.61	633.45	2,533.79	4	1264.26	7.89279E-05	0.32	0.37	0.06
B_{ws}	0.217	B_{wsw}	0.131														

Total Pounds of Carbon Recovered as Emissions:	**2.5616**
Total Pounds of Gasoline Recovered as Emissions:	**2.9645**
Total Gallons of Gasoline Recovered as Emissions:	**0.4743**

NOTES:
AFVR event performed by Excalibur Environmental Services, Inc. on January 21, 2009.
Vacuum applied to monitoring wells MW-2, MW-6, MW-15, and MW-18.
0.01, 0.01, 0.19, and 0.19 feet of free-phase petroleum product was detected in MW-2, MW-6, MW-15, and MW-18, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
C_c - mass concentration of VOC emissions as carbon, dry basis, at STP
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance.

Prepared By:IAI
Checked By:TZS

TABLE 10

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-1	12/13/96	NA	**20.6**	1.74	2.61	6.4	31.35	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	2.6	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	0.028	NT
MW-2	12/13/96	NA	**249**	22.5	43.5	363	678	11.1	**900**	NT	NT
	02/10/98	**0.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**1.92**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**0.23**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	**120**	ND	6.8	170	296.8	ND	**240**	**0.33**	NT
	05/29/07	**0.26**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.02**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2D	02/10/98	NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	3.7	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND	ND	ND	NT
MW-3	02/10/98	NA	**62.5**	6.4	19.3	193	281.2	ND	**106**	ND	NT
	03/29/99	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**0.12**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	Monitoring Well Abandoned									
MW-3R	02/24/06	NA	**40.0**	ND	ND	81.0	121	ND	**120**	**0.90**	NT
	05/29/07	NA	**48.0**	ND	ND	109.0	157	ND	**140**	**0.51**	NT
	09/09/08	NA	**23.2**	ND	ND	17.7	40.9	ND	**63.2**	**0.44**	ND
	02/23/09	**0.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NA	2.2	ND	1.73	150	153.93	ND	**186**	ND	NT
	03/29/99	NA	ND	ND	ND	10.6	10.6	ND	**26.2**	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND	**49.6**	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	**0.96**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
MW-5	02/10/98	NA	**16.5**	ND	ND	6.83	23.33	ND	**33.3**	ND	NT
	03/29/99	NA	ND	ND	1.13	6.26	7.39	ND	**50.2**	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	**25.2**	11.5	5.10	32.4	74.2	ND	5.0	NT	NT
	02/02/04	NA	**23.1**	4.0	2.0	8.7	37.8	ND	ND	NT	NT
	01/20/05	NA	**11.0**	ND	ND	ND	11.0	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.0	5.9	2.8	7.8	17.5	ND	9.7	ND	NT
MW-6	02/10/98	NA	**523.0**	**1,670**	104	434	**2,731**	**92.7**	**409**	ND	NT
	03/29/99	**1.83**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**2.19**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**1.72**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	**1.54**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	**0.63**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.42**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
MW-7	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	**12.9**	ND	ND	11.6	24.5	6.8	20.1	NT	NT
	01/28/03	NA	**6.2**	ND	ND	4.0	10.2	3.2	6.0	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	3.8	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	**34.0**	ND	ND	40.6	74.6	2.8	**89.9**	**0.23**	NT
MW-8	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT

Prepared By: IAI
Checked By: TZS

TABLE 10

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-9	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-12	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09	Dry									
MW-13	02/24/06	NA	**100**	ND	ND	110	210	ND	**100**	**0.76**	NT
	05/29/07	NA	**160**	ND	ND	199	359	ND	**170**	**0.62**	NT
	09/09/08	NA	**77**	ND	ND	101	178	ND	**226**	**0.162**	ND
	02/23/09	NA	**23.5**	ND	ND	46.2	69.7	ND	**68.1**	**0.18**	NT
MW-14	02/24/06	NA	**160**	34.0	480	620	1,294	ND	**160**	**0.46**	NT
	05/29/07	NA	**220**	ND	550	700	1,470	ND	**250**	**0.26**	NT
	09/09/08	NA	**82.4**	3.81	54.8	67.1	208.11	ND	**75**	**0.118**	ND
	02/23/09	NA	**175**	9.9	303	119.8	607.7	1.9	**194**	**0.20**	NT
MW-15	02/24/06	NA	**100**	8.0	25.0	160	293	ND	**140**	**0.54**	NT
	05/29/07	NA	**190**	12.0	21	240	463	ND	**390**	**0.45**	NT
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.13**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-17	02/23/09	**0.79**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	**0.45**	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSL's
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established.
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: TZS

TABLE 11
Laboratory Analytical Results
8-RCRA Metals
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Arsenic (µg/L)	Barium (µg/L)	Mercury (µg/L)	Cadmium (µg/L)	Selenium (µg/L)	Chromium (µg/L)	Silver (µg/L)	Lead (µg/L)
SC DHEC RBSL		50	2000	2	5	50	100	5	15
MW-1	12/13/96	NT	NT	NT	NT	NT	NT	NT	NT
	02/10/98	NT	NT	NT	NT	NT	NT	NT	**41.0**
	03/29/99	NT	NT	NT	NT	NT	NT	NT	14.0
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/03/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	**35.2**
	02/23/09	ND	227	ND	ND	ND	11.3	ND	9.6
MW-2	12/13/96	NT	NT	NT	NT	NT	NT	NT	NT
	02/10/98	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-2D	02/10/98	NT	NT	NT	NT	NT	NT	NT	**32.0**
	03/29/99	NT	NT	NT	NT	NT	NT	NT	ND
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/03/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	70.5	ND	ND	ND	ND	ND	ND
MW-3	02/10/98	NT	NT	NT	NT	NT	NT	NT	ND
	03/29/99	NT	NT	NT	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	Well Abandoned							
MW-3R	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	**30.9**
	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NT	NT	NT	NT	NT	NT	NT	11.0
	03/29/99	NT	NT	NT	NT	NT	NT	NT	11.0
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry							
MW-5	02/10/98	NT	NT	NT	NT	NT	NT	NT	**38.0**
	03/29/99	NT	NT	NT	NT	NT	NT	NT	**70.0**
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	38.9	ND	ND	ND	12.7	ND	10.6
MW-6	02/10/98	NT	NT	NT	NT	NT	NT	NT	NT
	03/29/99	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry							
MW-7	09/15/99	NT	NT	NT	NT	NT	NT	NT	**48.0**
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	ND	204	0.35	ND	ND	39.6	ND	**23.1**
MW-8	09/15/99	NT	NT	NT	NT	NT	NT	NT	ND
	07/05/01	NT	NT	NT	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT	NT	NT	ND
	02/02/04	NT	NT	NT	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	ND	56.4	0.47	ND	ND	5.8	ND	ND

Prepared By: IAI
Checked By:TZS

TABLE 11
Laboratory Analytical Results
8-RCRA Metals
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Arsenic (µg/L)	Barium (µg/L)	Mercury (µg/L)	Cadmium (µg/L)	Selenium (µg/L)	Chromium (µg/L)	Silver (µg/L)	Lead (µg/L)
SC DHEC RBSL		50	2000	2	5	50	100	5	15
MW-9	02/03/04	NT	NT	NT	NT	NT	NT	NT	14.0
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	**459**
	02/23/09	**114**	**5,410**	1.2	**55.0**	**64.0**	**1,720**	ND	**1,010**
MW-10	02/02/04	NT	NT	NT	NT	NT	NT	NT	ND
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	**420**
	02/23/09	14.8	928	1.5	**30.2**	25.3	**474**	ND	**328**
MW-11	02/02/04	NT	NT	NT	NT	NT	NT	NT	5.0
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	6.4	**3,040**	**2.7**	**137**	39.4	**827**	ND	**1,180**
MW-12	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	**24.5**
	02/23/09	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-13	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	52.9	0.82	ND	ND	ND	ND	ND
MW-14	2/24 2006	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	5.7	902	ND	**36.8**	22.8	**451**	ND	**251**
MW-15	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
MW-16	02/23/09	ND	82	1.5	ND	ND	21.7	ND	10.7
MW-17	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established.
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By:TZS

TABLE 12

Laboratory Analytical Results
Polynuclear Aromatic Hydrocarbons-Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Acenaphthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Naphthalene (µg/L)	TPH (DRO) (µg/L)
SC DHEC RBSL		10	10	10	25	NE
MW-1	12/13/96	NT	NT	NT	NT	NT
	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	3/13/2006	ND	ND	ND	ND	470
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-2	12/13/96	NT	NT	NT	NT	NT
	02/10/98	NS	NS	NS	NS	NS
	03/29/99	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS
	03/13/06	14.0	29.0	49.0	320	260,000
	05/29/07	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS
	02/23/09	NS	NS	NS	NS	NS
MW-2D	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-3	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS
	02/23/06	Well Abandoned				
MW-3R	03/13/06	ND	5.8	ND	79.0	4,000
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NS	NS	NS	NS	NS
MW-4	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NS	NS	NS	NS	NS
	02/23/09	Dry				
MW-5	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-6	02/10/98	NT	NT	NT	NT	NT
	03/29/99	NS	NS	NS	NS	NS
	07/05/01	NS	NS	NS	NS	NS
	01/28/03	NS	NS	NS	NS	NS
	02/02/04	NS	NS	NS	NS	NS
	01/20/05	NS	NS	NS	NS	NS
	02/23/06	NS	NS	NS	NS	NS
	05/29/07	NS	NS	NS	NS	NS
	09/09/08	NS	NS	NS	NS	NS
	02/23/09	Dry				
MW-7	09/15/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-8	09/15/99	NT	NT	NT	NT	NT
	07/05/01	NT	NT	NT	NT	NT
	01/28/03	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT

Prepared By: IAI
Checked By:TZS

TABLE 12

Laboratory Analytical Results
Polynuclear Aromatic Hydrocarbons-Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Acenaphthene (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Naphthalene (µg/L)	TPH (DRO) (µg/L)
SC DHEC RBSL		10	10	10	25	NE
MW-9	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-10	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-11	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-12	03/13/06	ND	ND	ND	ND	220
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09			Dry		
MW-13	03/13/06	5.0	8.6	8.7	**160**	7,500
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-14	03/13/06	ND	ND	ND	**59.0**	4,000
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
MW-15	03/13/06	ND	7.4	6.7	**230**	5,200
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NS	NS	NS	NS	NS
MW-16	02/23/09	NT	NT	NT	NT	NT
MW-17	02/23/09	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSL's
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By:TZS

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

SEP 30 2009

MR ALLEN VAUGHN
ESTATE OF ROBERT VAUGHN
4 E PARKER RD
GREENVILLE SC 29611-3504

Re: **Monitoring well replacement and Groundwater Sampling Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA # 36308; MWA# UMW-22858
Release #2 reported February 25, 1997
Assessment Report received May 14, 2009
Greenville County

Dear Mr. Vaughn:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the file and the next necessary scope of work is to replace monitoring wells MW-4, MW-6, and MW-12 since they were dry during the last sampling event. A comprehensive groundwater sampling event should be completed to obtain current data. Samples from all monitoring wells should be collected and analyzed for BTEX, naphthalene, MTBE, 1,2 DCA, and 8 Oxygenates by EPA method 8260B, and EDB by EPA Method 8011, 8 RCRA metals (please filter the samples), lead by EPA method 6010, Nitrates, Sulfates, and Ferrous Iron. 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.

In 2009 the UST Division will begin requiring that laboratories be certified through the SCDHEC Office of Environmental Laboratory Certification for the oxygenate compounds. The UST Divsion required that laboratories submit the application for certification no later than December 31, 2008. Beginning May 1, 2009, 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 # 36308 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The monitoring well installation and groundwater sampling activities may proceed immediately upon receipt of this letter. The Assessment Report submitted at the completion of these activities should include the following:

- A narrative portion documenting current site conditions during the groundwater sampling event, 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, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.

- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Historical and current groundwater laboratory analytical data for all monitoring wells 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 location.
- 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

Bunnell-Lammons Engineering, Inc. 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 Assessment 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. 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 or inquiries regarding this project, please reference **UST Permit # 11929.** If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Cost Agreement
Monitoring well approval

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (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:	BLE, Inc.
(On behalf of):	Mr. Allen Vaughn
Facility:	Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit Number:	11929
County:	Greenville

This approval is for the installation of three 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: May 21, 2009 Approval #: UMW-22858

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 36308

Facility: 11929 FORMER RYDER TERMINAL
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)	105.0000	38.00	3,990.00
10 SAMPLE COLLECTION					
		A GROUND WATER	4.0000	55.00	220.00
		D GROUNDWATER NO-PURGE	15.0000	35.00	525.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	19.0000	100.00	1,900.00
		BB 1,2-DCA	19.0000	10.75	204.25
		E LEAD	19.0000	20.00	380.00
		F EDB	19.0000	55.00	1,045.00
		G GW 8 RCRA METALS	19.0000	140.00	2,660.00
		K NITRATE	19.0000	20.00	380.00
		L SULFATE	19.0000	20.00	380.00
		M FERROUS IRON	19.0000	20.00	380.00
		P 8 OXYGENATES	19.0000	85.00	1,615.00
16 SUBSEQUENT SURVEY					
		SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	3.0000	90.00	270.00
		C SOIL (TREATMENT/DISPOSAL)	15.0000	50.00	750.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	16,694.25	2,504.14
			Total Amount		19,198.39

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT

Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, South Carolina
UST Permit # 11929; Cost Agreement # 36308

Prepared For

The Estate of Robert B. Vaughn
4 East Parker Road
Greenville, South Carolina 29611-3504

Prepared By

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-010

February 17, 2010

BLE Project Number J09-1010-14

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

February 17, 2010

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report of Comprehensive Groundwater Sampling Event**
Former Ryder Truck Terminal
Greenville, Greenville County
UST Permit #11929; CA #36308
BLE Project No. J09-1010-14

Dear Ms. Briney:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has conducted a site-wide groundwater sampling at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated September 30, 2009. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC,

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the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, 2007, 2008, and 2009 by BLE to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events. In accordance with a September 30, 2009 directive letter from SCDHEC, a comprehensive groundwater sampling event was required to be performed at the site in order to evaluate the effectiveness of the previous AFVR events and to compare the sample results with prior year's data. This report presents the results of our activities.

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are on-site, and three wells (MW-7, MW-8, and MW-11) are off-site.

Groundwater levels in the monitoring wells were measured on November 23, 2009 (Table 1). A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer is shown on Figure 2.

Groundwater samples were collected from thirteen (MW-1, MW-2, MW-2D, MW-5, MW-7 through MW-14, and MW-16) of the nineteen monitoring wells on November 23 through 24, 2009. Monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 were not sampled due to the presence of free-phase product in the wells. Groundwater samples from the thirteen wells that were sampled were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tertiary-butyl-ether (MTBE), 1,2-dichloroethane (1,2-DCA), and 8-oxygenates by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011, 8-RCRA metals (dissolved) by EPA 6000/7000 series methods, total lead by EPA Method 6010, nitrates by EPA method 353.2, sulfates by EPA method SW 9056A, and ferrous iron by EPA method 3500-Fe-D.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling. Therefore, only monitoring well MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures

are described in Appendix A. The samples were shipped via overnight courier to Pace Analytical Services, Inc. (Pace) in Huntersville, North Carolina for analysis (SC Certification #990060001). The monitoring well sampling logs are in Appendix A.

Purge water generated during the groundwater sampling event was contained in a 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix B.

LABORATORY RESULTS

Petroleum free-product was encountered in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. Laboratory analyses detected various concentrations of chemicals of concern (CoC) in monitoring wells MW-2, MW-2D, MW-5, MW-10, and MW-12 through MW-14. Benzene, naphthalene, and EDB (MW-2, MW-13 and MW-14) were the only CoCs detected at concentrations exceeding South Carolina Risk-Based Screening Levels (RBSLs). Additionally, various concentrations of dissolved 8-RCRA metals and/or total lead were detected in each of the sampled monitoring wells; however, only total lead (MW-11) and dissolved lead (MW-10 and MW-11) were detected at concentrations exceeding RBSLs. Laboratory analytical results for each well are shown on Figure 3. Historical laboratory data is summarized on Tables 2 through Table 5. Laboratory data sheets are provided in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

- Groundwater flow and contaminant transport is to the south/southeast from the UST system release. The depth to groundwater in the unconfined aquifer ranges from 23.01 feet (MW-8) below ground surface to 27.06 feet (MW-1) below ground surface across the study area.

- Free-phase petroleum product was present in monitoring wells MW-3R (0.04 feet), MW-4 (0.47 feet), MW-6 (3.10 feet), MW-15 (0.90 feet), MW-17 (2.31 feet), and MW-18 (0.11 feet).

- During the November 23-24, 2009 sampling event, detected constituents that exceed RBSLs are benzene, naphthalene, and EDB (MW-2, MW-13, and MW-14), total lead (MW-11), and dissolved lead (MW-10 and MW-11).

- Various metals concentrations were detected in each monitoring well; however, only total lead (MW-11) and dissolved lead (MW-10 and MW-11) were detected above its respective RBSL of 15 µg/L.

Since free-product is present at moderate to significant thicknesses in MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18, we recommend that a series of AFVR events be conducted at the site. After a minimum of 30 days from the final AFVR event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

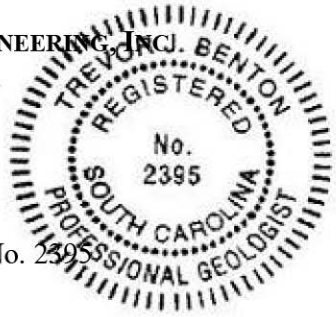
This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.



Trevor J. Benton, P.G.
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Mark S. Preddy, P.G.
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cc: Mr. Allen Vaughn, For the Estate of Robert B. Vaughn, 4 East Parker Rd., Greenville, SC 29611

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	Free Product Thickness	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	27.06	NA	24.85	73.64	31.0	21.0 - 31.0	77.5 - 67.5
MW-2	100.10	100.54	25.21	NA	25.65	74.89	30.0	20.0 - 30.0	80.5 - 70.5
MW-2D	99.29	99.76	26.46	NA	26.94	72.83	54.5	49.5 - 54.5	50.3 - 45.3
MW-3	Well abandoned December 5, 2005								
MW-3R*	99.00	99.57	25.09	0.04	25.66	73.91	32.4	22.2 - 32.2	77.4 - 67.4
MW-4*	102.67	102.91	24.49	0.47	24.73	78.18	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	23.96	NA	24.20	77.52	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	26.29	3.10	26.67	75.45	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	26.38	NA	26.68	66.29	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	23.01	NA	23.12	65.75	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	23.55	NA	23.94	78.71	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	23.60	NA	23.60	81.07	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	24.66	NA	24.92	76.00	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	26.59	NA	26.89	74.79	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	24.18	NA	24.51	74.44	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	23.94	NA	24.47	75.36	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	24.27	0.90	24.46	76.12	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	24.10	NA	24.39	78.64	34.4	24.2 - 34.2	78.8 - 68.8
MW-17*	102.09	102.49	25.22	2.31	25.62	76.87	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	25.37	0.11	25.72	75.02	35.6	25.4 - 35.4	75.3 - 65.3

NOTES:
Groundwater levels were measured on November 23, 2009.
Measurements are in feet; elevations are relative to an arbitrary site datum.
* = Groundwater depth data for MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 has been corrected for the presence of free-product thickness using a density of 0.70 g/cc.
btoc = below top of casing
bgs = below ground surface
FP = Free-Product
NA = Not Applicable.

Prepared By: IAI
Checked By: TZS

TABLE 2

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Well	Date Sampled	Free Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-1	12/13/96	NA	**20.6**	1.74	2.61	6.4	31.35	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	2.6	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	0.028	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
MW-2	12/13/96	NA	**249**	22.5	43.5	363	678	11.1	**900**	NT	NT
	02/10/98	**0.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**1.92**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**0.23**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	**120**	ND	6.8	170	296.8	ND	**240**	**0.33**	NT
	05/29/07	**0.26**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.02**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	NA	**25.6**	<5.0	<5.0	41.1J	66.7	<5.0	**53.3**	**0.061**	<5.0
MW-2D	02/10/98	NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	3.7	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND	ND	ND	NT
	11/23/09	NA	1.2J	<5.0	<5.0	<10.0	1.2J	<5.0	<5.0	<0.020	<5.0
MW-3	02/10/98	NA	**62.5**	6.4	19.3	193	281.2	ND	**106**	ND	NT
	03/29/99	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**0.12**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	Monitoring Well Abandoned									
MW-3R	02/24/06	NA	**40.0**	ND	ND	81.0	121	ND	**120**	**0.90**	NT
	05/29/07	NA	**48.0**	ND	ND	109.0	157	ND	**140**	**0.51**	NT
	09/09/08	NA	**23.2**	ND	ND	17.7	40.9	ND	**63.2**	**0.44**	ND
	02/23/09	**0.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NA	2.2	ND	1.73	150	153.93	ND	**186**	ND	NT
	03/29/99	NA	ND	ND	ND	10.6	10.6	ND	**26.2**	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND	**49.6**	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	**0.96**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
	11/23/09	**0.47**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	02/10/98	NA	**16.5**	ND	ND	6.83	23.33	ND	**33.3**	ND	NT
	03/29/99	NA	ND	ND	1.13	6.26	7.39	ND	**50.2**	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	**25.2**	11.5	5.10	32.4	74.2	ND	5.0	NT	NT
	02/02/04	NA	**23.1**	4.0	2.0	8.7	37.8	ND	ND	NT	NT
	01/20/05	NA	**11.0**	ND	ND	ND	11.0	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.0	5.9	2.8	7.8	17.5	ND	9.7	ND	NT
	11/23/09	NA	<5.0	<5.0	1.8J	<10.0	1.8J	<5.0	<5.0	<0.019	<5.0
MW-6	02/10/98	NA	**523.0**	**1,670**	104	434	2,731	**92.7**	**409**	ND	NT
	03/29/99	**1.83**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**2.19**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**1.72**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	**1.54**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	**0.63**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.42**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
	11/23/09	**3.10**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	**12.9**	ND	ND	11.6	24.5	6.8	20.1	NT	NT
	01/28/03	NA	**6.2**	ND	ND	4.0	10.2	3.2	6.0	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	3.8	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	**34.0**	ND	ND	40.6	74.6	2.8	**89.9**	**0.23**	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.019	<5.0
MW-8	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0

Prepared By: IAI
Checked By: TZS

TABLE 2

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Well	Date Sampled	Free Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-9	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
MW-10	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	5.4J	5.4J	<5.0	<5.0	<0.020	<5.0
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
MW-12	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09	Dry									
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	14.0	<5.0	<0.02	<5.0
MW-13	02/24/06	NA	**100**	ND	ND	110	210	ND	**100**	**0.76**	NT
	05/29/07	NA	**160**	ND	ND	199	359	ND	**170**	**0.62**	NT
	09/09/08	NA	**77**	ND	ND	101	178	ND	**226**	**0.162**	ND
	02/23/09	NA	**23.5**	ND	ND	46.2	69.7	ND	**68.1**	**0.18**	NT
	11/23/09	NA	**23.6**	<5.0	<5.0	69.4	93.0	<5.0	**58.4**	**0.46**	<5.0
MW-14	02/24/06	NA	**160**	34.0	480	620	1,294	ND	**160**	**0.46**	NT
	05/29/07	NA	**220**	ND	550	700	1,470	ND	**250**	**0.26**	NT
	09/09/08	NA	**82.4**	3.81	54.8	67.1	208.11	ND	**75**	**0.118**	ND
	02/23/09	NA	**175**	9.9	303	119.8	607.7	1.9	**194**	**0.20**	NT
	11/23/09	NA	**150**	10.5	263	93.8J	517.3	<10.0	**81.5**	**0.084**	<10.0
MW-15	02/24/06	NA	**100**	8.0	25.0	160	293	ND	**140**	**0.54**	NT
	05/29/07	NA	**190**	12.0	21	240	463	ND	**390**	**0.45**	NT
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.13**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.90**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/24/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
MW-17	02/23/09	**0.79**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**2.31**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	**0.45**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.11**	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSLs
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event;
therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: TZS

TABLE 3
Laboratory Analytical Results
8-Oxygenates
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Boring ID #	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		NE	NE	NE	NE	NE	NE	NE	NE
MW-1	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-2	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-2D	02/23/09	NT	70.5	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-3	02/23/06	Well Abandoned							
MW-3R	02/23/09	Well not sampled due to 0.60 feet of free product present							
	11/23/09	Well not sampled due to 0.04 feet of free product present							
MW-4	02/23/09	Dry							
	11/23/09	Well not sampled due to 0.47 feet of free product present							
MW-5	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-6	02/23/09	Dry							
	11/23/09	Well not sampled due to 3.10 feet of free product present							
MW-7	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-8	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-9	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-10	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-11	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-12	02/23/09	Dry							
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-13	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/24/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-14	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<20.0	<200	<100	<200	<10.0	<400	<20.0	<200
MW-15	02/23/09	Well not sampled due to 0.13 feet of free product present							
	11/23/09	Well not sampled due to 0.90 feet of free product present							
MW-16	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100
MW-17	02/23/09	Well not sampled due to 0.79 feet of free product present							
	11/23/09	Well not sampled due to 2.31 feet of free product present							
MW-18	02/23/09	Well not sampled due to 0.45 feet of free product present							
	11/23/09	Well not sampled due to 0.11 feet of free product present							

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold and shaded cells indicate concentrations above RBSLs
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By:TZS

TABLE 4
Laboratory Analytical Results
8-RCRA Metals
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Boring ID #	Date Sampled	Total Arsenic (µg/L)	Dissolved Arsenic (µg/L)	Total Barium (µg/L)	Dissolved Barium (µg/L)	Total Mercury (µg/L)	Dissolved Mercury (µg/L)	Total Cadmium (µg/L)	Dissolved Cadmium (µg/L)	Total Selenium (µg/L)	Dissolved Selenium (µg/L)	Total Chromium (µg/L)	Dissolved Chromium (µg/L)	Total Silver (µg/L)	Dissolved Silver (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
SC DHEC RBSL		**50 µg/L**		**2000 µg/L**		**2 µg/L**		**5 µg/L**		**50 µg/L**		**100 µg/L**		**5 µg/L**		**15 µg/L**	
MW-1	02/23/09	ND	NT	227	NT	ND	NT	ND	NT	ND	NT	11.3	NT	ND	NT	9.6	NT
	11/23/09	NT	<5.0	NT	21.6	NT	0.63	NT	<1.0	NT	<10.0	NT	0.93J	NT	0.17J	<5.0	<5.0
MW-2	02/23/09	NS	NT	NS	NT	NS	NT	NS	NT	NS	NT	NS	NT	NS	NT	NS	NS
	11/23/09	NT	<5.0	NT	41.0	NT	0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.32J	<5.0	<5.0
MW-2D	02/23/09	ND	NT	70.5	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT
	11/23/09	NT	<5.0	NT	62.6	NT	<0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.17J	<5.0	<5.0
MW-3	02/23/06	Well Abandoned															
MW-3R	02/23/09	Well not sampled due to 0.60 feet of free product present															
	11/23/09	Well not sampled due to 0.04 feet of free product present															
MW-4	02/23/09	Dry															
	11/23/09	Well not sampled due to 0.47 feet of free product present															
MW-5	02/23/09	ND	NT	38.9	NT	ND	NT	ND	NT	ND	NT	12.7	NT	ND	NT	10.6	NT
	11/23/09	NT	<5.0	NT	12.9	NT	<0.20	NT	<1.0	NT	5.2J	NT	<5.0	NT	0.30J	<5.0	5.0
MW-6	02/23/09	Dry															
	11/23/09	Well not sampled due to 3.10 feet of free product present															
MW-7	02/23/09	ND	NT	204	NT	0.35	NT	ND	NT	ND	NT	39.6	NT	ND	NT	**23.1**	NT
	11/23/09	NT	<5.0	NT	88.2	NT	0.12J	NT	<1.0	NT	<10.0	NT	1.0J	NT	0.18J	11.4	6.5
MW-8	02/23/09	ND	NT	56.4	NT	0.47	NT	ND	NT	ND	NT	5.8	NT	ND	NT	ND	NT
	11/23/09	NT	<5.0	NT	51.1	NT	<0.20	NT	0.51J	NT	<10.0	NT	<5.0	NT	0.44J	<5.0	<5.0
MW-9	02/23/09	**114**	NT	**5,410**	NT	1.2	NT	**55.0**	NT	**64.0**	NT	**1,720**	NT	ND	NT	**1,010**	NT
	11/23/09	NT	<5.0	NT	22.5	NT	<0.20	NT	<1.0	NT	<10.0	NT	1.3J	NT	0.19J	<5.0	<5.0
MW-10	02/23/09	14.8	NT	928	NT	1.5	NT	**30.2**	NT	25.3	NT	**474**	NT	ND	NT	**328**	NT
	11/23/09	NT	<5.0	NT	70.6	NT	1.4	NT	<1.0	NT	3.9J	NT	2.1J	NT	0.34J	6.4	**17.0**
MW-11	02/23/09	6.4	NT	**3,040**	NT	**2.7**	**NT**	**137**	NT	39.4	NT	**827**	NT	ND	NT	**1,180**	NT
	11/23/09	NT	<5.0	NT	127	NT	0.16J	NT	<1.0	NT	<10.0	NT	1.8J	NT	0.25J	**115**	**46.9**
MW-12	02/23/09	Dry															
	11/23/09	NT	<5.0	NT	70.2	NT	1.2	NT	<1.0	NT	<10.0	NT	1.1J	NT	0.18J	<5.0	<5.0
MW-13	02/23/09	ND	NT	52.9	NT	0.82	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT
	11/23/09	NT	<5.0	NT	43.6	NT	<0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.48J	<5.0	<5.0
MW-14	02/23/09	5.7	NT	902	NT	ND	NT	**36.8**	NT	22.8	NT	**451**	NT	ND	NT	**251**	NT
	11/23/09	NT	<5.0	NT	29.1	NT	<0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.36J	<5.0	<5.0
MW-15	02/23/09	Well not sampled due to 0.13 feet of free product present															
	11/23/09	Well not sampled due to 0.90 feet of free product present															
MW-16	02/23/09	ND	NT	82	NT	1.5	NT	ND	NT	ND	NT	21.7	NT	ND	NT	10.7	NT
	11/24/09	NT	<5.0	NT	119	NT	<0.20	NT	<1.0	NT	<10.0	NT	0.44J	NT	0.22J	<5.0	<5.0
MW-17	02/23/09	Well not sampled due to 0.79 feet of free product present															
	11/23/09	Well not sampled due to 2.31 feet of free product present															
MW-18	02/23/09	Well not sampled due to 0.45 feet of free product present															
	11/23/09	Well not sampled due to 0.11 feet of free product present															

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold and shaded cells indicate concentrations above RBSLs
A = Abandoned
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event, therefore no groundwater data is available. The well was abandoned on 12/3/05.

Prepared By: IAI
Checked By: TZS

TABLE 5
Laboratory Analytical Results
Intrinsic Parameters
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Boring ID #	Date Sampled	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
SC DHEC RBSL		NE	NE	NE
MW-1	12/13/96	NT	NT	NT
	02/10/98	ND	0.62	12.57
	03/29/99	ND	0.71	7.3
	07/05/01	243	ND	11.8
	01/28/03	ND	0.87	4.1
	02/03/04	NT	NT	NT
	01/20/05	NT	0.94	4.2
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.1	2.5
MW-2	12/13/96	NT	NT	NT
	02/10/98	NT	NT	NT
	03/29/99	NT	NT	NT
	07/05/01	NT	NT	NT
	01/28/03	NT	NT	NT
	02/02/04	NT	NT	NT
	01/20/05	NT	NT	NT
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.1	<1.0
MW-2D	02/10/98	ND	ND	16.81
	03/29/99	3,200	ND	16
	07/05/01	3,830	2.04	ND
	01/28/03	5,240	ND	8.8
	02/03/04	NT	NT	NT
	01/20/05	NT	ND	12
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	<0.10	14
MW-3	02/10/98	ND	ND	2.75
	03/29/99	NT	NT	NT
	07/05/01	NT	NT	NT
	01/28/03	NT	NT	NT
	02/02/04	NT	NT	NT
	01/20/05	NT	NT	NT
	02/23/06	Abandoned		
MW-3R	02/24/06	NT	0.15	1.2
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	Not sampled due to 0.60 feet of free product		
	11/23/09	Not sampled due to 0.04 feet of free product		
MW-4	02/10/98	ND	0.71	3.26
	03/29/99	ND	1.29	3.69
	07/05/01	158	2.75	ND
	01/28/03	ND	2.24	ND
	02/02/04	NT	NT	NT
	01/20/05	NT	1.6	ND
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	Dry		
	11/23/09	Not sampled due to 0.47 feet of free product		
MW-5	02/10/98	300	0.16	1.92
	03/29/99	ND	0.52	4.79
	07/05/01	214	26	ND
	01/28/03	242	0.99	ND
	02/02/04	NT	NT	NT
	01/20/05	NT	0.31	1.7
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	<0.10	3.3
MW-6	02/10/98	NT	ND	2.02
	03/29/99	NT	NT	NT
	07/05/01	NT	NT	NT
	01/28/03	NT	NT	NT
	02/02/04	NT	NT	NT
	01/20/05	NT	NT	NT
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	Dry		
	11/23/09	Not sampled due to 3.10 feet of free product		
MW-7	09/15/99	2,200	0.32	ND
	07/05/01	269	0.6	ND
	01/28/03	ND	0.62	ND
	02/02/04	NT	NT	NT
	01/20/05	NT	1.3	1.1
	02/24/06	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.6	1.4
MW-8	09/15/99	220	0.60	ND
	07/05/01	135	0.58	ND
	01/28/03	ND	0.83	3.1
	02/02/04	NT	NT	NT
	01/20/05	NT	0.64	ND
	02/24/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	0.90	<1.0

Prepared By: IAI
Checked By:TZS

TABLE 5
Laboratory Analytical Results
Intrinsic Parameters
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

Boring ID #	Date Sampled	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
SC DHEC RBSL		NE	NE	NE
MW-9	02/03/04	NT	NT	NT
	01/20/05	NT	0.78	ND
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	0.91	1.7
MW-10	02/02/04	NT	NT	NT
	01/20/05	NT	0.85	ND
	02/24/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.1	<1.0
MW-11	02/02/04	NT	NT	NT
	01/20/05	NT	1.2	1.2
	02/24/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.2	<1.0
MW-12	02/24/06	NT	5.5	1.1
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	Dry		
	11/23/09	<0.50	6.5	<1.0
MW-13	02/24/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	4.3	12
MW-14	2/24 2006	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	<0.10	1.2
MW-15	02/24/06	NT	0.87	1.7
	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	not sampled due to 0.13 feet of free product		
	11/23/09	not sampled due to 0.90 feet of free product		
MW-16	02/23/09	NT	NT	NT
	11/24/09	<0.50	1.4	<1.0
MW-17	02/23/09	Not sampled due to 0.79 feet of free product		
	11/23/09	Not sampled due to 2.31 feet of free product		
MW-18	02/23/09	Not sampled due to 0.45 feet of free product		
	11/23/09	Not sampled due to 0.11 feet of free product		

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSLs
A = Abandoned
NA = Not Applicable
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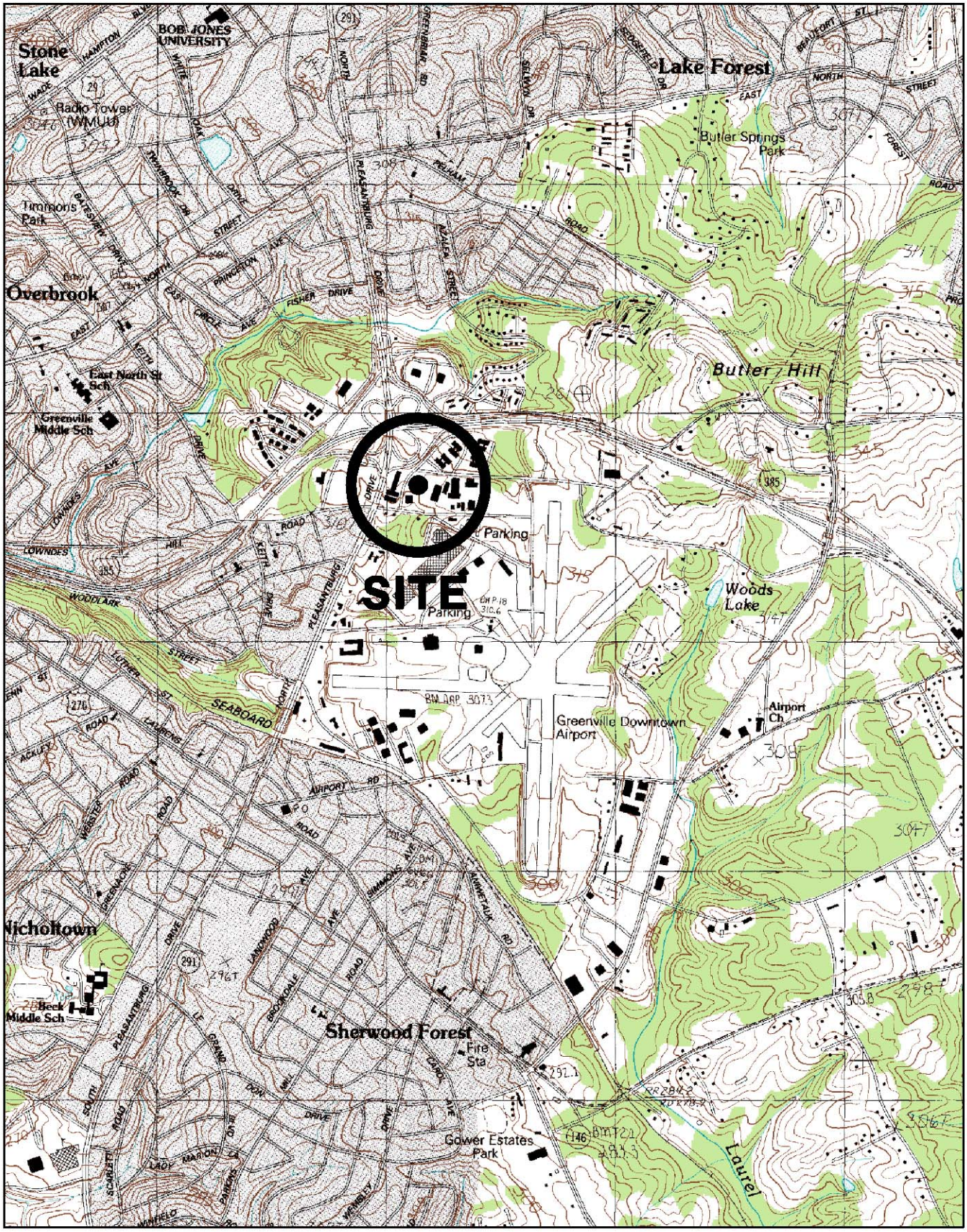
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By:TZS

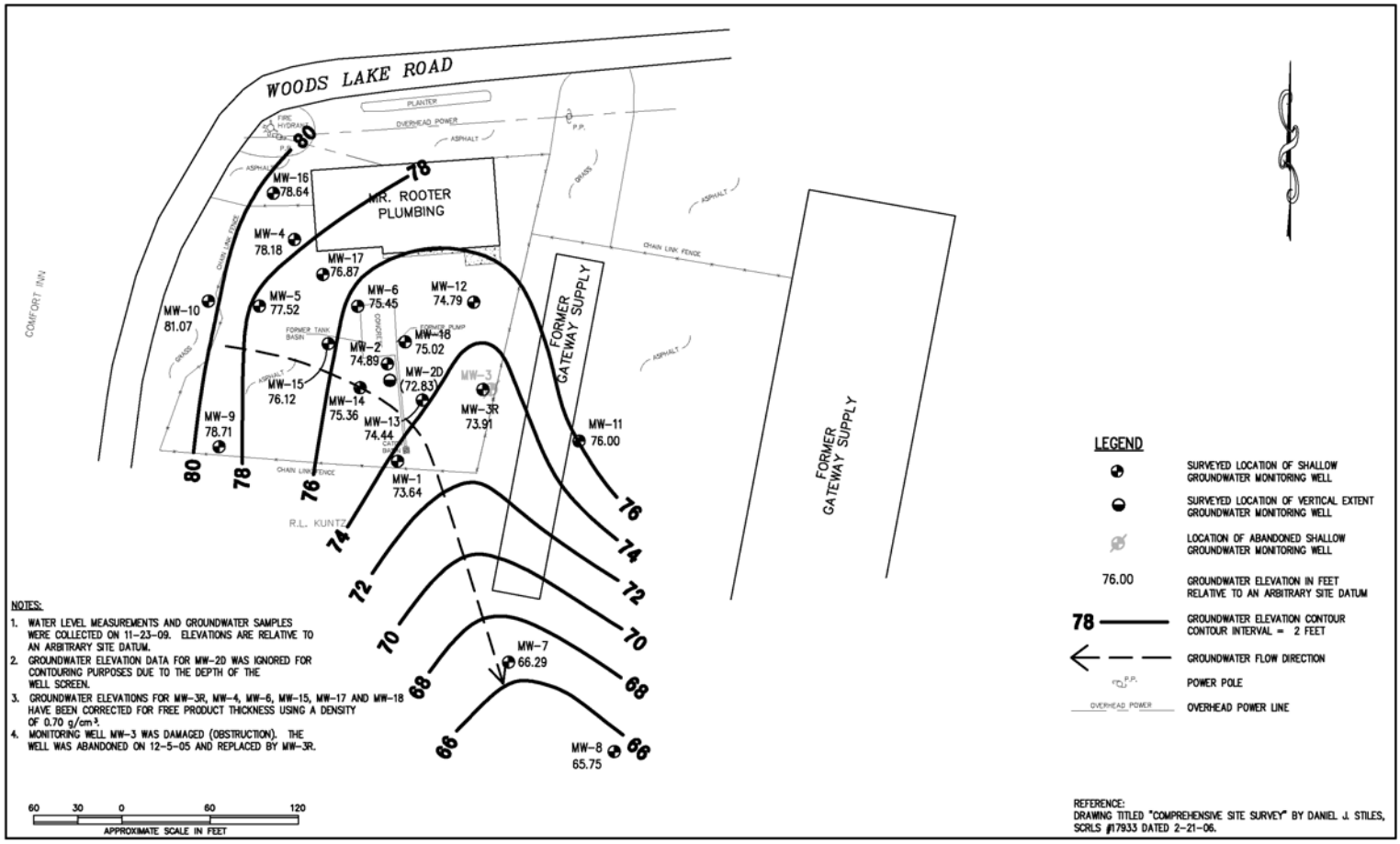
FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

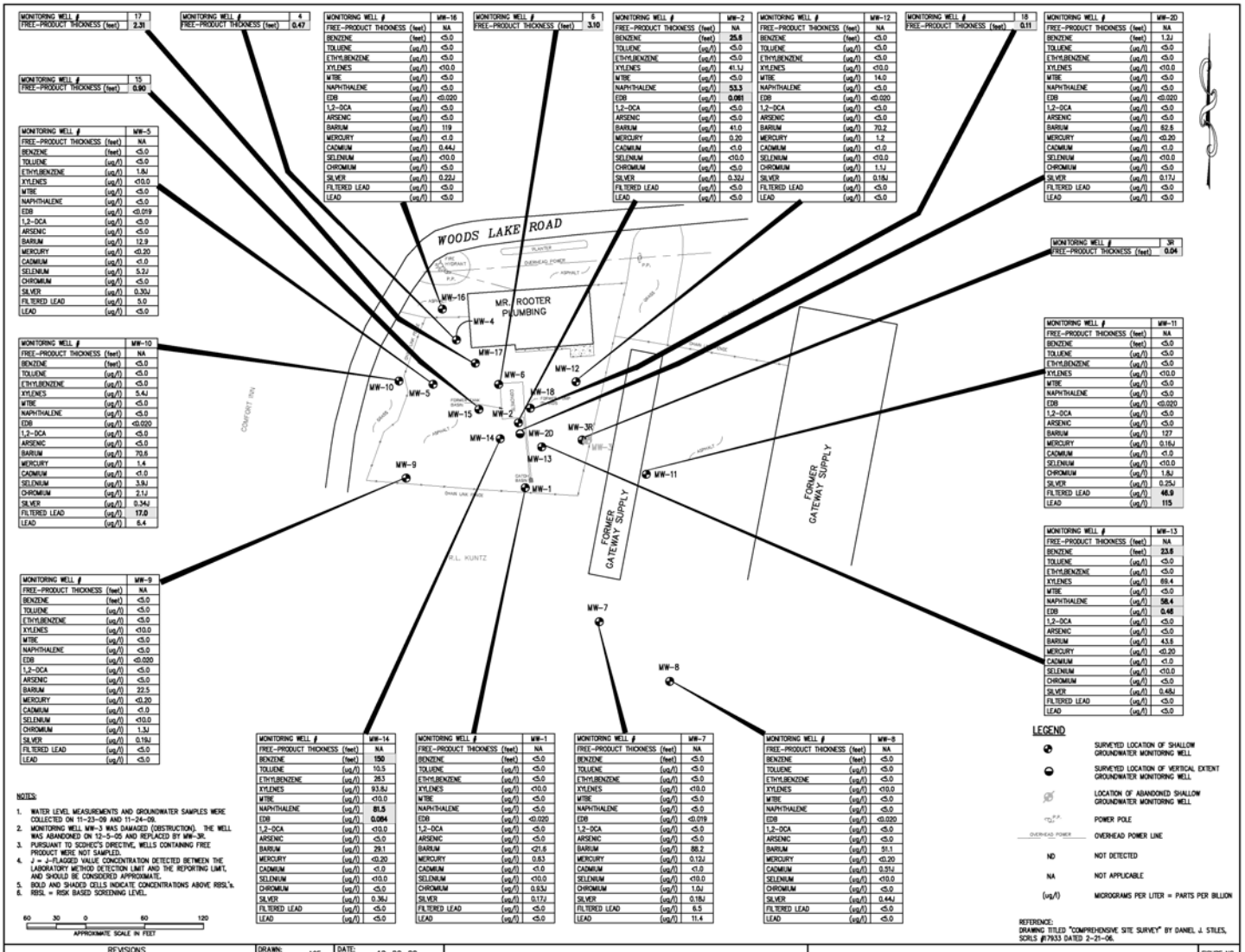
REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 01-07-10	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1285 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-14SLM		FIGURE 1
APPROVED:	JOB NO: J09-1010-14		



DRAWN BY: ACE	DATE: 11-24-09	REVISIONS No. / DESCRIPTION / BY	GROUNDWATER ELEVATION CONTOUR MAP FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED BY: IAI	FILE: FORMERRTT-14POT		FIGURE 2
APPROVED BY:	JOB NO: J09-1010-14		

BLE INC. BUNNELL-LAMMONS ENGINEERING, INC.
5004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430



MONITORING WELL #	17
FREE-PRODUCT THICKNESS (feet)	2.21

MONITORING WELL #	4
FREE-PRODUCT THICKNESS (feet)	0.47

MONITORING WELL #	MW-16
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	119
MERCURY (ug/l)	<1.0
CADMIUM (ug/l)	0.44J
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.22J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	5
FREE-PRODUCT THICKNESS (feet)	3.10

MONITORING WELL #	MW-2
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	25.6
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	41.1J
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	53.3
EDB (ug/l)	0.081
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	41.0
MERCURY (ug/l)	0.20
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.32J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	MW-12
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	14.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	70.2
MERCURY (ug/l)	1.2
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	1.1J
SILVER (ug/l)	0.16J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	18
FREE-PRODUCT THICKNESS (feet)	0.11

MONITORING WELL #	MW-20
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	1.2J
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	62.6
MERCURY (ug/l)	<0.20
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.17J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	15
FREE-PRODUCT THICKNESS (feet)	0.90

MONITORING WELL #	MW-5
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	1.8J
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.019
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	12.9
MERCURY (ug/l)	<0.20
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	5.2J
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.30J
FILTERED LEAD (ug/l)	5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	3R
FREE-PRODUCT THICKNESS (feet)	0.04

MONITORING WELL #	MW-11
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	127
MERCURY (ug/l)	0.16J
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	1.8J
SILVER (ug/l)	0.25J
FILTERED LEAD (ug/l)	46.9
LEAD (ug/l)	115

MONITORING WELL #	MW-10
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (ug/l)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	5.4J
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	70.6
MERCURY (ug/l)	1.4
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	3.9J
CHROMIUM (ug/l)	2.1J
SILVER (ug/l)	0.34J
FILTERED LEAD (ug/l)	17.0
LEAD (ug/l)	6.4

MONITORING WELL #	MW-13
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	23.8
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	69.4
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	58.4
EDB (ug/l)	0.46
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	43.6
MERCURY (ug/l)	<0.20
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.48J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	MW-9
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	22.5
MERCURY (ug/l)	<0.20
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	1.3J
SILVER (ug/l)	0.19J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	MW-14
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	150
TOLUENE (ug/l)	10.5
ETHYLBENZENE (ug/l)	26.3
XYLENES (ug/l)	93.8J
MTBE (ug/l)	<10.0
NAPHTHALENE (ug/l)	81.5
EDB (ug/l)	0.084
1,2-DCA (ug/l)	<10.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	29.1
MERCURY (ug/l)	<0.20
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.36J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	MW-1
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	<21.6
MERCURY (ug/l)	0.63
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	0.93J
SILVER (ug/l)	0.17J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

MONITORING WELL #	MW-7
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.019
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	88.2
MERCURY (ug/l)	0.12J
CADMIUM (ug/l)	<1.0
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	1.0J
SILVER (ug/l)	0.18J
FILTERED LEAD (ug/l)	6.5
LEAD (ug/l)	11.4

MONITORING WELL #	MW-8
FREE-PRODUCT THICKNESS (feet)	NA
BENZENE (feet)	<5.0
TOLUENE (ug/l)	<5.0
ETHYLBENZENE (ug/l)	<5.0
XYLENES (ug/l)	<10.0
MTBE (ug/l)	<5.0
NAPHTHALENE (ug/l)	<5.0
EDB (ug/l)	<0.020
1,2-DCA (ug/l)	<5.0
ARSENIC (ug/l)	<5.0
BARIUM (ug/l)	51.1
MERCURY (ug/l)	<0.20
CADMIUM (ug/l)	0.51J
SELENIUM (ug/l)	<10.0
CHROMIUM (ug/l)	<5.0
SILVER (ug/l)	0.44J
FILTERED LEAD (ug/l)	<5.0
LEAD (ug/l)	<5.0

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 11-23-09 AND 11-24-09.
2. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.
3. PURSUANT TO SCDHEC'S DIRECTIVE, WELLS CONTAINING FREE PRODUCT WERE NOT SAMPLED.
4. J = J-FLAGGED VALUE CONCENTRATION DETECTED BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE REPORTING LIMIT, AND SHOULD BE CONSIDERED APPROXIMATE.
5. BOLD AND SHADED CELLS INDICATE CONCENTRATIONS ABOVE RBSL's.
6. RBSL = RISK BASED SCREENING LEVEL.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- ND NOT DETECTED
- NA NOT APPLICABLE
- (ug/l) MICROGRAMS PER LITER = PARTS PER BILLION

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

REVISIONS			DRAWN: ACE	DATE: 12-22-09
No.	DESCRIPTION	BY	CHECKED: IAI	CAD FILE: FORMERRTT-14GWCOC
			APPROVED:	JOB NO: J09-1010-14

BLE INC. BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE NO. 3

APPENDICES

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES, AND MONITORING WELL SAMPLING LOGS

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well development). Therefore, the monitoring wells which required purging were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water was evacuated. Specific conductance, pH, water temperature, and dissolved oxygen were measured periodically during well evacuation using instruments, which were calibrated as required.

The monitoring wells were purged using 42-inch long disposable bailers attached to an unused polypropylene cord. To minimize the potential for cross-contamination between wells, a new clean bailer was used for each well.

Samples for VOC analysis were placed in laboratory prepared 40-milliliter glass vials with Teflon® lined lids and marked with identifying numbers. The VOC samples were preserved using hydrochloric acid (HCl). The samples for the 8 RCRA metals and total lead were placed in laboratory prepared 250 mL plastic jars and preserved using nitric acid (HNO3). The sample containers were maintained at approximately 4° Celsius in a refrigerated sample cooler. The sample cooler was shipped to Pace Analytical Services, Inc., in Huntersville, North Carolina via overnight delivery service for analysis.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-1

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	27.06	ft
Length of Water Colum (LWC = TWD-DGW)	3.94	ft
1 Casing Volume (LWC*C) = 3.94 X .17 =	0.67	gals
3 Casing Volumes = 3 X 0.67 =	2.01	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1159							
pH (s.u)	4.85							
Specific Conductivity	91.0							
Water Temperature (°C)	14.1							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	5.48							

Remarks: Well sampled at 1159 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-2

Well Diameter (D) 2 inch of 30.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.00	ft
Depth to Groundwater (DGW)	25.21	ft
Length of Water Colum (LWC = TWD-DGW)	4.79	ft
1 Casing Volume (LWC*C) = 4.79 X .17 =	0.81	gals
3 Casing Volumes = 3 X 0.81 =	4.98	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	1210							
pH (s.u)	5.05							
Specific Conductivity	41.0							
Water Temperature (°C)	17.8							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	5.08							

Remarks: Well sampled at 1210 on November 23, 2009. A slight sheen was noted at time of sampling.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	54.50	ft
Depth to Groundwater (DGW)	26.46	ft
Length of Water Colum (LWC = TWD-DGW)	28.04	ft

1 Casing Volume (LWC*C) = 28.04 X .17 = 4.77 gals
3 Casing Volumes = 3 X 4.77 = 14.31 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: 15.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0	5.0	10.0	15.0				
Time (military)	1344	1355	1410	1421				
pH (s.u)	5.65	5.78	5.76	5.75				
Specific Conductivity	128.9	131.6	115.9	116.0				
Water Temperature (°C)	19.2	18.9	19.1	19.2				
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Oxygen (mg/l)	1.44							

Remarks: Well sampled at 1421 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
			11/24/2009:1010

Well # MW-3R

Well Diameter (D) 2 inch of 32.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness				0.04	ft
Total Well Depth (TWD)				32.40	ft
Depth to Groundwater (DGW)				25.12	ft
Length of Water Colum (LWC = TWD-DGW)				NA	ft
1 Casing Volume (LWC*C) =	NA	X .17	=	NA	gals
3 Casing Volumes = 3 X	NA	=		NA	gals
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to the presence of 0.04 feet of free-phase petroleum product.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.47	ft			
Total Well Depth (TWD)	29.50	ft			
Depth to Groundwater (DGW)	24.82	ft			
Length of Water Colum (LWC = TWD-DGW)			NA	ft	
1 Casing Volume (LWC*C) =	NA	X .17 =	NA	gals	
3 Casing Volumes = 3 X	NA	=	NA	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to the presence of 0.47 feet of free-phase petroleum product.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-5

Well Diameter (D) 2 inch of 29.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.00	ft
Depth to Groundwater (DGW)	23.96	ft
Length of Water Colum (LWC = TWD-DGW)	5.04	ft

1 Casing Volume (LWC*C) = 5.04 X .17 = 0.86 gals
3 Casing Volumes = 3 X 0.86 = 2.58 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1222							
pH (s.u)	5.21							
Specific Conductivity	106							
Water Temperature (°C)	16.8							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.32							

Remarks: Well sampled at 1222 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	3.10	ft			
Total Well Depth (TWD)	29.50	ft			
Depth to Groundwater (DGW)	28.46	ft			
Length of Water Colum (LWC = TWD-DGW)			NA	ft	
1 Casing Volume (LWC*C) =	NA	X .17 =	NA	gals	
3 Casing Volumes = 3 X	NA	=	NA	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to the presence of 3.10 feet of free-phase product.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-7

Well Diameter (D) 2 inch of 32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	32.80	ft
Depth to Groundwater (DGW)	26.38	ft
Length of Water Colum (LWC = TWD-DGW)	6.42	ft

1 Casing Volume (LWC*C) = 6.42 X .17 = 1.09 gals
3 Casing Volumes = 3 X 1.09 = 3.27 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	0945							
pH (s.u)	4.45							
Specific Conductivity	65.2							
Water Temperature (°C)	19.2							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	2.23							

Remarks: Well sampled at 0945 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.80	ft
Depth to Groundwater (DGW)	23.01	ft
Length of Water Colum (LWC = TWD-DGW)	6.79	ft

1 Casing Volume (LWC*C) = 6.79 X .17 = 1.15 gals
3 Casing Volumes = 3 X 1.15 = 3.45 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1000							
pH (s.u)	4.29							
Specific Conductivity	56.0							
Water Temperature (°C)	16.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	1.47							

Remarks: Well sampled at 1000 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11-23-09:1800	PACE	11/24/2009:1010

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.70	ft
Depth to Groundwater (DGW)	23.55	ft
Length of Water Colum (LWC = TWD-DGW)	7.15	ft
1 Casing Volume (LWC*C) = 7.15 X .17 =	1.22	gals
3 Casing Volumes = 3 X 1.22 = (Standard Purge Volume)	3.66	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1537							
pH (s.u)	5.07							
Specific Conductivity	42.6							
Water Temperature (°C)	18.1							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	2.10							

Remarks: Well sampled at 1537 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-10

Well Diameter (D) 2 inch of 30.10 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.10	ft
Depth to Groundwater (DGW)	23.6	ft
Length of Water Colum (LWC = TWD-DGW)	6.50	ft
1 Casing Volume (LWC*C) = 6.50 X .17 =	1.11	gals
3 Casing Volumes = 3 X 1.11 = (Standard Purge Volume)	3.33	gals

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1045							
pH (s.u)	4.19							
Specific Conductivity	49.8							
Water Temperature (°C)	17.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	0.65							

Remarks: Well sampled at 1045 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	24.66	ft
Length of Water Colum (LWC = TWD-DGW)	6.34	ft

1 Casing Volume (LWC*C) = 6.34 X .17 = 1.08 gals
3 Casing Volumes = 3 X 1.08 = 3.24 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1013							
pH (s.u)	4.15							
Specific Conductivity	42.9							
Water Temperature (°C)	20.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.00							

Remarks: Well sampled at 1013 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-12

Well Diameter (D) 2 inch of 30.90 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 30.90 ft
Depth to Groundwater (DGW) 26.59 ft
Length of Water Colum (LWC = TWD-DGW) 4.31 ft
1 Casing Volume (LWC*C) = 4.31 X .17 = 0.73 gals
3 Casing Volumes = 3 X 0.73 = 2.19 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling wiil not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0.0							
Time (military)	1300							
pH (s.u)	4.70							
Specific Conductivity	103.6							
Water Temperature (°C)	19.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.50							

Remarks: Well sampled at 1300 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-13

Well Diameter (D): 2 inch of 33.20 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	33.20	ft
Depth to Groundwater (DGW)	24.18	ft
Length of Water Colum (LWC = TWD-DGW)	9.02	ft
1 Casing Volume (LWC*C) = 9.02 X .17 =	1.53	gals
3 Casing Volumes = 3 X 1.53 =	4.59	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1315							
pH (s.u)	5.05							
Specific Conductivity	182							
Water Temperature (°C)	19.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	0.64							

Remarks: Well sampled at 1315 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/23/09:1800	PACE	11/24/2009:1010

Well # MW-14

Well Diameter (D) 2 inch of 32.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	32.00	ft
Depth to Groundwater (DGW)	23.94	ft
Length of Water Colum (LWC = TWD-DGW)	8.06	ft

1 Casing Volume (LWC*C) = 8.06 X .17 = 1.37 gals
3 Casing Volumes = 3 X 1.37 = 4.11 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1330							
pH (s.u)	5.05							
Specific Conductivity	82.9							
Water Temperature (°C)	20.2							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	0.46							

Remarks: Well sampled at 1330 on November 23, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D) 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.90	ft			
Total Well Depth (TWD)	33.50	ft			
Depth to Groundwater (DGW)	24.90	ft			
Length of Water Colum (LWC = TWD-DGW)			NA	ft	
1 Casing Volume (LWC*C) =	NA	X .17 =	NA	gals	
3 Casing Volumes = 3 X	NA	=	NA	gals	
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to the presence of 0.90 feet of free-phase petroleum product.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	
pH = 7.0	7.0	Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Ivan A. Irizarry	11/24/09:1800	PACE	11/24/2009:1010

Well # MW-16

Well Diameter (D) 2 inch of 34.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	34.40	ft
Depth to Groundwater (DGW)	24.10	ft
Length of Water Colum (LWC = TWD-DGW)	10.30	ft

1 Casing Volume (LWC*C) = 10.30 X .17 = 1.75 gals
3 Casing Volumes = 3 X 1.75 = 5.25 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: 3.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	0910							
pH (s.u)	4.80							
Specific Conductivity	131.5							
Water Temperature (°C)	19.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	1.92							

Remarks: Well sampled at 0910 on November 24, 2009.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	2.31	ft
Total Well Depth (TWD)	35.00	ft
Depth to Groundwater (DGW)	26.86	ft
Length of Water Colum (LWC = TWD-DGW)	NA	ft

1 Casing Volume (LWC*C) = NA X .17 = NA gals
3 Casing Volumes = 3 X NA = NA gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to the presence of 2.31 feet of free-phase petroleum product .

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: November 23, 2009
Field Personnel: Ivan A. Irizarry
General weather Conditions: Sunny to partly cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID#: 11929

Quality Assurance

pH Sensor:		Conductivity Sensor:	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter (D) 2 inch of 35.60 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.11	ft			
Total Well Depth (TWD)	35.60	ft			
Depth to Groundwater (DGW)	25.45	ft			
Length of Water Colum (LWC = TWD-DGW)			NA	ft	
1 Casing Volume (LWC*C) =	NA	X .17 =	NA	gals	
3 Casing Volumes = 3 X	NA	=	NA	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to the presence of 0.11 feet of free-phase petroleum product.

APPENDIX B

WASTE TRANSPORTATION AND DISPOSAL RECORDS

Excalibur Environmental Services, Inc.
PO Box 1751
Simpsonville, South Carolina 29680
(864) 967-9744

NON-HAZARDOUS
VIRGIN PETROLEUM-IMPACTED
MONITOR WELL PURGE WATER TREATMENT MANIFEST

Non-Hazardous Waste Treatment Manifest No. 160

Environmental Consultant Name/Address
Mr. Trevor Benton, PG
BLE., Inc.
6004 Ponders Court
Greenville, SC

Generators Name/Address
Estate of Mr. Robert Vaughn
4 East Parker Road
Greenville, SC

Site Name/Address
Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, SC

Source of Waste: UST System Release
SCDHEC Site ID No.: 11929

Waste Description	Container (s) / Volume (g)	Treatment
Non-Hazardous Virgin Petroleum-Impacted MW Purge Water	1drum	*GAC

***Granulated Activated Carbon Mobile Treatment Unit**

Generator/Agent Representative Certification
I hereby certify that the waste material listed above is fully and accurately described, that the waste material is non-hazardous, and that the waste material is not subject to federal hazardous waste regulations.

Name: AGENT FOR THE ESTATE OF ROBERT B. VAUGHN **Date: 12-9-09**

Waste Treatment Certification
Excalibur Environmental Services, Inc. has accepted custody of the waste material listed above and hereby certifies that the waste material has been treated by a GAC Mobile Treatment Unit.

Name: Bradley A. Morris **Date: 12-9-09**
Bradley A. Morris
Excalibur Environmental Services, Inc.

APPENDIX C

LABORATORY DATA SHEETS

Pace Analytical®
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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 10, 2009

Mr. Trevor Benton
Bunnell-Lammons Engineering
6004 Ponders Court
Greenville, SC 29615

RE: Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Dear Mr. Benton:
Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 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 Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

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: FORMER RYDER TRUCK
Pace Project No.: 9258190

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9258190001	**MW-1**	Water	11/23/09 11:59	11/24/09 10:10
9258190002	**MW-2**	Water	11/23/09 12:10	11/24/09 10:10
9258190003	**MW-2D**	Water	11/23/09 14:21	11/24/09 10:10
9258190004	**MW-5**	Water	11/23/09 12:22	11/24/09 10:10
9258190005	**MW-7**	Water	11/23/09 09:45	11/24/09 10:10
9258190006	**MW-8**	Water	11/23/09 10:00	11/24/09 10:10
9258190007	**MW-9**	Water	11/23/09 15:37	11/24/09 10:10
9258190008	**MW-10**	Water	11/23/09 10:45	11/24/09 10:10
9258190009	**MW-11**	Water	11/23/09 10:13	11/24/09 10:10
9258190010	**MW-12**	Water	11/23/09 13:00	11/24/09 10:10
9258190011	**MW-13**	Water	11/23/09 13:15	11/24/09 10:10
9258190012	**MW-14**	Water	11/23/09 13:30	11/24/09 10:10

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SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9258190001	**MW-1**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190002	**MW-2**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190003	**MW-2D**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190004	**MW-5**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190005	**MW-7**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190006	**MW-8**	EPA 8011	CAH	2
		EPA 6010	JMW	1

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SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190007	**MW-9**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	RAB	1
9258190008	**MW-10**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190009	**MW-11**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190010	**MW-12**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190011	**MW-13**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1

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SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190012	**MW-14**	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-1 **Lab ID: 9258190001** Collected: 11/23/09 11:59 Received: 11/24/09 10:10 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	12/04/09 11:26	12/06/09 16:42	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	12/04/09 11:26	12/06/09 16:42	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 00:57	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 14:46	7440-38-2	
Barium, Dissolved	**21.6**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 14:46	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 14:46	7440-43-9	
Chromium, Dissolved	**0.93J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 14:46	7440-47-3	Z2
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 14:46	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 14:46	7782-49-2	
Silver, Dissolved	**0.17J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 14:46	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.63**	ug/L	0.20	0.090	1	11/30/09 15:20	12/02/09 14:26	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 08:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 08:10	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 08:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 08:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 08:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 08:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 08:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 08:10	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 08:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 08:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 08:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 08:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 08:10	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 08:10	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 08:10	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 08:10	95-47-6	
Dibromofluoromethane (S)	98	%	85-115		1		12/03/09 08:10	1868-53-7	
Toluene-d8 (S)	92	%	70-120		1		12/03/09 08:10	2037-26-5	
4-Bromofluorobenzene (S)	108	%	87-109		1		12/03/09 08:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		12/03/09 08:10	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:31		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-2 **Lab ID: 9258190002** Collected: 11/23/09 12:10 Received: 11/24/09 10:10 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)	**0.061**	ug/L	0.020	0.020	1	12/04/09 11:26	12/06/09 17:02	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	12/04/09 11:26	12/06/09 17:02	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:00	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 14:50	7440-38-2	
Barium, Dissolved	**41.0**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 14:50	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 14:50	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 14:50	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 14:50	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 14:50	7782-49-2	
Silver, Dissolved	**0.32J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 14:50	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.20**	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:13	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 14:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 14:10	994-05-8	
Benzene	**25.6**	ug/L	5.0	1.2	1		12/03/09 14:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 14:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 14:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 14:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 14:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 14:10	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 14:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 14:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 14:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 14:10	1634-04-4	
Naphthalene	**53.3**	ug/L	5.0	2.9	1		12/03/09 14:10	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 14:10	108-88-3	
m&p-Xylene	**2.7J**	ug/L	10.0	2.7	1		12/03/09 14:10	1330-20-7	
o-Xylene	**38.4**	ug/L	5.0	1.7	1		12/03/09 14:10	95-47-6	
Dibromofluoromethane (S)	101	%	85-115		1		12/03/09 14:10	1868-53-7	
Toluene-d8 (S)	104	%	70-120		1		12/03/09 14:10	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-109		1		12/03/09 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		12/03/09 14:10	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:33		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-2D **Lab ID: 9258190003** Collected: 11/23/09 14:21 Received: 11/24/09 10:10 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	12/04/09 11:26	12/06/09 17:23	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/04/09 11:26	12/06/09 17:23	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:14	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 14:53	7440-38-2	
Barium, Dissolved	**62.6**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 14:53	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 14:53	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 14:53	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 14:53	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 14:53	7782-49-2	
Silver, Dissolved	**0.17J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 14:53	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:38	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 09:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 09:04	994-05-8	
Benzene	**1.2J**	ug/L	5.0	1.2	1		12/03/09 09:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 09:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 09:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 09:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 09:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 09:04	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 09:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 09:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 09:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 09:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 09:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 09:04	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 09:04	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 09:04	95-47-6	
Dibromofluoromethane (S)	99	%	85-115		1		12/03/09 09:04	1868-53-7	
Toluene-d8 (S)	114	%	70-120		1		12/03/09 09:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109		1		12/03/09 09:04	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		12/03/09 09:04	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:48		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-5 **Lab ID: 9258190004** Collected: 11/23/09 12:22 Received: 11/24/09 10:10 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	12/04/09 11:26	12/06/09 18:03	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140		1	12/04/09 11:26	12/06/09 18:03	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:18	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:07	7440-38-2	
Barium, Dissolved	**12.9**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:07	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:07	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:07	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:07	7439-92-1	
Selenium, Dissolved	**5.2J**	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:07	7782-49-2	Z2
Silver, Dissolved	**0.30J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:07	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:41	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 19:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 19:13	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 19:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 19:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 19:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 19:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 19:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 19:13	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 19:13	64-17-5	
Ethylbenzene	**1.8J**	ug/L	5.0	1.1	1		12/03/09 19:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 19:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 19:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 19:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 19:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 19:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 19:13	95-47-6	
Dibromofluoromethane (S)	94	%	85-115		1		12/03/09 19:13	1868-53-7	
Toluene-d8 (S)	101	%	70-120		1		12/03/09 19:13	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		12/03/09 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		12/03/09 19:13	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:34		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-7 **Lab ID: 9258190005** Collected: 11/23/09 09:45 Received: 11/24/09 10:10 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	12/04/09 11:26	12/06/09 18:23	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	12/04/09 11:26	12/06/09 18:23	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**11.4**	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:22	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:10	7440-38-2	
Barium, Dissolved	**88.2**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:10	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:10	7440-43-9	
Chromium, Dissolved	**1.0J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:10	7440-47-3	Z2
Lead, Dissolved	**6.5**	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:10	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:10	7782-49-2	
Silver, Dissolved	**0.18J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:10	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.12J**	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:43	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 19:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 19:31	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 19:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 19:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 19:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 19:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 19:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 19:31	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 19:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 19:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 19:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 19:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 19:31	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 19:31	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 19:31	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 19:31	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		1		12/03/09 19:31	1868-53-7	
Toluene-d8 (S)	105	%	70-120		1		12/03/09 19:31	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		12/03/09 19:31	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		12/03/09 19:31	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:24		H3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.6**	mg/L	0.10	0.10	1		11/24/09 23:09		M0

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-8 **Lab ID: 9258190006** Collected: 11/23/09 10:00 Received: 11/24/09 10:10 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	12/04/09 11:27	12/06/09 18:44	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	12/04/09 11:27	12/06/09 18:44	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:26	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:14	7440-38-2	
Barium, Dissolved	**51.1**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:14	7440-39-3	Z2
Cadmium, Dissolved	**0.51J**	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:14	7440-43-9	Z2
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:14	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:14	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:14	7782-49-2	
Silver, Dissolved	**0.44J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:14	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:46	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 19:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 19:49	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 19:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 19:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 19:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 19:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 19:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 19:49	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 19:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 19:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 19:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 19:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 19:49	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 19:49	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 19:49	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 19:49	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		12/03/09 19:49	1868-53-7	
Toluene-d8 (S)	104	%	70-120		1		12/03/09 19:49	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109		1		12/03/09 19:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		12/03/09 19:49	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:26		H3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.90**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-9 **Lab ID: 9258190007** Collected: 11/23/09 15:37 Received: 11/24/09 10:10 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	12/04/09 11:27	12/06/09 19:04	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/04/09 11:27	12/06/09 19:04	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:30	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:17	7440-38-2	
Barium, Dissolved	**22.5**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:17	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:17	7440-43-9	
Chromium, Dissolved	**1.3J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:17	7440-47-3	Z2
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:17	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:17	7782-49-2	
Silver, Dissolved	**0.19J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:17	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:48	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 20:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 20:08	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 20:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 20:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 20:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 20:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 20:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 20:08	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 20:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 20:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 20:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 20:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 20:08	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 20:08	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 20:08	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 20:08	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		1		12/03/09 20:08	1868-53-7	
Toluene-d8 (S)	104	%	70-120		1		12/03/09 20:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		12/03/09 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		12/03/09 20:08	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:59		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.91**	mg/L	0.10	0.10	1		11/25/09 10:00		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-10 **Lab ID: 9258190008** Collected: 11/23/09 10:45 Received: 11/24/09 10:10 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	12/04/09 11:27	12/06/09 19:24	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	12/04/09 11:27	12/06/09 19:24	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.4**	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:33	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:31	7440-38-2	
Barium, Dissolved	**70.6**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:31	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:31	7440-43-9	
Chromium, Dissolved	**2.1J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:31	7440-47-3	Z2
Lead, Dissolved	**17.0**	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:31	7439-92-1	
Selenium, Dissolved	**3.9J**	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:31	7782-49-2	Z2
Silver, Dissolved	**0.34J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:31	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**1.4**	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:51	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 20:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 20:26	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 20:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 20:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 20:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 20:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 20:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 20:26	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 20:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 20:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 20:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 20:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 20:26	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 20:26	108-88-3	
m&p-Xylene	**3.3J**	ug/L	10.0	2.7	1		12/03/09 20:26	1330-20-7	
o-Xylene	**2.1J**	ug/L	5.0	1.7	1		12/03/09 20:26	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		12/03/09 20:26	1868-53-7	
Toluene-d8 (S)	105	%	70-120		1		12/03/09 20:26	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-109		1		12/03/09 20:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		12/03/09 20:26	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:30		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-11 **Lab ID: 9258190009** Collected: 11/23/09 10:13 Received: 11/24/09 10:10 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	12/04/09 11:27	12/06/09 19:45	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	12/04/09 11:27	12/06/09 19:45	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**115**	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:37	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:34	7440-38-2	
Barium, Dissolved	**127**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:34	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:34	7440-43-9	
Chromium, Dissolved	**1.8J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:34	7440-47-3	Z2
Lead, Dissolved	**46.9**	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:34	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:34	7782-49-2	
Silver, Dissolved	**0.25J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:34	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**0.16J**	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:53	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 20:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 20:44	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 20:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 20:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 20:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 20:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 20:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 20:44	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 20:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 20:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 20:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 20:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 20:44	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 20:44	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 20:44	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 20:44	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		1		12/03/09 20:44	1868-53-7	
Toluene-d8 (S)	104	%	70-120		1		12/03/09 20:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-109		1		12/03/09 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		12/03/09 20:44	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:26		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.2**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-12 **Lab ID: 9258190010** Collected: 11/23/09 13:00 Received: 11/24/09 10:10 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	12/04/09 11:27	12/06/09 20:05	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	12/04/09 11:27	12/06/09 20:05	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:42	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:37	7440-38-2	
Barium, Dissolved	**70.2**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:37	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:37	7440-43-9	
Chromium, Dissolved	**1.1J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:37	7440-47-3	Z2
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:37	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:37	7782-49-2	
Silver, Dissolved	**0.18J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:37	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**1.2**	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:01	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 21:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 21:02	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/03/09 21:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 21:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 21:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 21:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 21:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 21:02	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 21:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 21:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 21:02	637-92-3	
Methyl-tert-butyl ether	**14.0**	ug/L	5.0	2.0	1		12/03/09 21:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/03/09 21:02	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 21:02	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/03/09 21:02	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/03/09 21:02	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		12/03/09 21:02	1868-53-7	
Toluene-d8 (S)	106	%	70-120		1		12/03/09 21:02	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-109		1		12/03/09 21:02	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		12/03/09 21:02	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:38		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**6.5**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-13 **Lab ID: 9258190011** Collected: 11/23/09 13:15 Received: 11/24/09 10:10 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)	**0.46**	ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 20:25	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	12/04/09 11:27	12/06/09 20:25	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:46	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:40	7440-38-2	
Barium, Dissolved	**43.6**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:40	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:40	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:40	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:40	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:40	7782-49-2	
Silver, Dissolved	**0.48J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:40	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:04	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/03/09 21:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/03/09 21:21	994-05-8	
Benzene	**23.6**	ug/L	5.0	1.2	1		12/03/09 21:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/03/09 21:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/03/09 21:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/03/09 21:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/03/09 21:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/03/09 21:21	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/03/09 21:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/03/09 21:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/03/09 21:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/03/09 21:21	1634-04-4	
Naphthalene	**58.4**	ug/L	5.0	2.9	1		12/03/09 21:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/03/09 21:21	108-88-3	
m&p-Xylene	**17.0**	ug/L	10.0	2.7	1		12/03/09 21:21	1330-20-7	
o-Xylene	**52.4**	ug/L	5.0	1.7	1		12/03/09 21:21	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		12/03/09 21:21	1868-53-7	
Toluene-d8 (S)	105	%	70-120		1		12/03/09 21:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-109		1		12/03/09 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		12/03/09 21:21	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:40		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.3**	mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

Sample: MW-14 **Lab ID: 9258190012** Collected: 11/23/09 13:30 Received: 11/24/09 10:10 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)	**0.084**	ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 20:46	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	12/04/09 11:27	12/06/09 20:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:50	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:43	7440-38-2	
Barium, Dissolved	**29.1**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:43	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:43	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:43	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:43	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:43	7782-49-2	
Silver, Dissolved	**0.36J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:43	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:06	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	200	124	2		12/07/09 15:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	9.0	2		12/07/09 15:06	994-05-8	
Benzene	**150**	ug/L	10.0	2.4	2		12/07/09 15:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	96.0	2		12/07/09 15:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	54.0	2		12/07/09 15:06	75-65-0	
tert-Butyl Formate	ND	ug/L	100	18.0	2		12/07/09 15:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	2.6	2		12/07/09 15:06	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	5.4	2		12/07/09 15:06	108-20-3	
Ethanol	ND	ug/L	400	340	2		12/07/09 15:06	64-17-5	
Ethylbenzene	**263**	ug/L	10.0	2.2	2		12/07/09 15:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	9.2	2		12/07/09 15:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.0	2		12/07/09 15:06	1634-04-4	
Naphthalene	**81.5**	ug/L	10.0	5.8	2		12/07/09 15:06	91-20-3	
Toluene	**10.5**	ug/L	10.0	3.6	2		12/07/09 15:06	108-88-3	
m&p-Xylene	**8.0J**	ug/L	20.0	5.4	2		12/07/09 15:06	1330-20-7	
o-Xylene	**85.8**	ug/L	10.0	3.4	2		12/07/09 15:06	95-47-6	
Dibromofluoromethane (S)	96	%	85-115		2		12/07/09 15:06	1868-53-7	
Toluene-d8 (S)	93	%	70-120		2		12/07/09 15:06	2037-26-5	
4-Bromofluorobenzene (S)	107	%	87-109		2		12/07/09 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120		2		12/07/09 15:06	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 21:41		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		11/24/09 23:09		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: OEXT/8718 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 374685 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/06/09 14:19	
1-Chloro-2-bromopropane (S)	%	100	60-140	12/06/09 14:19	

LABORATORY CONTROL SAMPLE & LCSD: 374686 374687

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	0.30	112	104	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				104	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374689 374690

Parameter	Units	9258272003 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)	%						98	101	60-140			

SAMPLE DUPLICATE: 374688

Parameter	Units	9258190003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		101	1		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: MPRP/5463 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372900 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/05/09 00:50	

LABORATORY CONTROL SAMPLE: 372901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	490	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 372941 372942

Parameter	Units	9258272003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	4.7J	500	500	457	462	90	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: MPRP/5446 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372150 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	3.5J	5.0	12/01/09 14:01	
Barium, Dissolved	ug/L	3.3J	5.0	12/01/09 14:01	
Cadmium, Dissolved	ug/L	0.83J	1.0	12/01/09 14:01	
Chromium, Dissolved	ug/L	3.0J	5.0	12/01/09 14:01	
Lead, Dissolved	ug/L	ND	5.0	12/01/09 14:01	
Selenium, Dissolved	ug/L	5.1J	10.0	12/01/09 14:01	
Silver, Dissolved	ug/L	1.5J	5.0	12/01/09 14:01	

LABORATORY CONTROL SAMPLE: 372151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	498	100	80-120	
Barium, Dissolved	ug/L	500	509	102	80-120	
Cadmium, Dissolved	ug/L	500	506	101	80-120	
Chromium, Dissolved	ug/L	500	509	102	80-120	
Lead, Dissolved	ug/L	500	496	99	80-120	
Selenium, Dissolved	ug/L	500	499	100	80-120	
Silver, Dissolved	ug/L	250	261	104	80-120	

MATRIX SPIKE SAMPLE: 372152

Parameter	Units	9257466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	9.7	500	434	85	75-125	
Barium, Dissolved	ug/L	236	500	648	82	75-125	
Cadmium, Dissolved	ug/L	ND	500	408	82	75-125	
Chromium, Dissolved	ug/L	19.4	500	429	82	75-125	
Lead, Dissolved	ug/L	39.0	500	435	79	75-125	
Selenium, Dissolved	ug/L	ND	500	427	85	75-125	
Silver, Dissolved	ug/L	ND	250	216	86	75-125	

SAMPLE DUPLICATE: 372153

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	17.3	22.4	26	20	R1
Barium, Dissolved	ug/L	1020	1030	1	20	
Cadmium, Dissolved	ug/L	1.1	1.3	13	20	
Chromium, Dissolved	ug/L	ND	1.5J		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

SAMPLE DUPLICATE: 372153

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	ND	ND		20	
Selenium, Dissolved	ug/L	27.0	25.0	8	20	
Silver, Dissolved	ug/L	ND	4.2J		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: MERP/2527 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372167 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	12/01/09 12:46	

LABORATORY CONTROL SAMPLE: 372168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	2.5	2.4	95	80-120	

MATRIX SPIKE SAMPLE: 372169

Parameter	Units	9257466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	2.5	2.3	88	75-125	

SAMPLE DUPLICATE: 372170

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	0.50		25	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: MSV/9211 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9258190001, 9258190002, 9258190003

METHOD BLANK: 373610 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/03/09 01:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/03/09 01:13	
Benzene	ug/L	ND	5.0	12/03/09 01:13	
Diisopropyl ether	ug/L	ND	5.0	12/03/09 01:13	
Ethanol	ug/L	ND	200	12/03/09 01:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/03/09 01:13	
Ethylbenzene	ug/L	ND	5.0	12/03/09 01:13	
m&p-Xylene	ug/L	ND	10.0	12/03/09 01:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/03/09 01:13	
Naphthalene	ug/L	ND	5.0	12/03/09 01:13	
o-Xylene	ug/L	ND	5.0	12/03/09 01:13	
tert-Amyl Alcohol	ug/L	ND	100	12/03/09 01:13	
tert-Amylmethyl ether	ug/L	ND	10.0	12/03/09 01:13	
tert-Butyl Alcohol	ug/L	ND	100	12/03/09 01:13	
tert-Butyl Formate	ug/L	ND	50.0	12/03/09 01:13	
Toluene	ug/L	ND	5.0	12/03/09 01:13	
1,2-Dichloroethane-d4 (S)	%	104	79-120	12/03/09 01:13	
4-Bromofluorobenzene (S)	%	101	87-109	12/03/09 01:13	
Dibromofluoromethane (S)	%	98	85-115	12/03/09 01:13	
Toluene-d8 (S)	%	92	70-120	12/03/09 01:13	

LABORATORY CONTROL SAMPLE: 373611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	56.9	114	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1200	120	55-148	
Benzene	ug/L	50	47.5	95	78-128	
Diisopropyl ether	ug/L	50	49.3	99	74-131	
Ethanol	ug/L	2000	2280	114	53-150	
Ethyl-tert-butyl ether	ug/L	100	114	114	77-136	
Ethylbenzene	ug/L	50	52.5	105	80-127	
m&p-Xylene	ug/L	100	106	106	82-127	
Methyl-tert-butyl ether	ug/L	50	53.8	108	71-130	
Naphthalene	ug/L	50	57.5	115	52-136	
o-Xylene	ug/L	50	55.4	111	83-124	
tert-Amyl Alcohol	ug/L	1000	1260	126	50-150	
tert-Amylmethyl ether	ug/L	100	106	106	50-150	
tert-Butyl Alcohol	ug/L	500	552	110	50-150	
tert-Butyl Formate	ug/L	400	416	104	50-150	
Toluene	ug/L	50	46.6	93	76-126	
1,2-Dichloroethane-d4 (S)	%			104	79-120	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

LABORATORY CONTROL SAMPLE: 373611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			88	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 373612 373613

Parameter	Units	9258450009 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	53.9	52.0	108	104	74-136	4	30	
Toluene	ug/L	ND	50	50	62.0	59.6	124	119	73-131	4	30	
1,2-Dichloroethane-d4 (S)	%						104	105	79-120			
4-Bromofluorobenzene (S)	%						101	102	87-109			
Dibromofluoromethane (S)	%						94	95	85-115			
Toluene-d8 (S)	%						104	104	70-120			

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: MSV/9218 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011

METHOD BLANK: 374213 Matrix: Water
Associated Lab Samples: 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/03/09 13:33	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/03/09 13:33	
Benzene	ug/L	ND	5.0	12/03/09 13:33	
Diisopropyl ether	ug/L	ND	5.0	12/03/09 13:33	
Ethanol	ug/L	ND	200	12/03/09 13:33	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/03/09 13:33	
Ethylbenzene	ug/L	ND	5.0	12/03/09 13:33	
m&p-Xylene	ug/L	ND	10.0	12/03/09 13:33	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/03/09 13:33	
Naphthalene	ug/L	ND	5.0	12/03/09 13:33	
o-Xylene	ug/L	ND	5.0	12/03/09 13:33	
tert-Amyl Alcohol	ug/L	ND	100	12/03/09 13:33	
tert-Amylmethyl ether	ug/L	ND	10.0	12/03/09 13:33	
tert-Butyl Alcohol	ug/L	ND	100	12/03/09 13:33	
tert-Butyl Formate	ug/L	ND	50.0	12/03/09 13:33	
Toluene	ug/L	ND	5.0	12/03/09 13:33	
1,2-Dichloroethane-d4 (S)	%	100	79-120	12/03/09 13:33	
4-Bromofluorobenzene (S)	%	100	87-109	12/03/09 13:33	
Dibromofluoromethane (S)	%	97	85-115	12/03/09 13:33	
Toluene-d8 (S)	%	104	70-120	12/03/09 13:33	

LABORATORY CONTROL SAMPLE: 374214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	57.6	115	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	965	96	55-148	
Benzene	ug/L	50	48.0	96	78-128	
Diisopropyl ether	ug/L	50	58.4	117	74-131	
Ethanol	ug/L	2000	2270	114	53-150	
Ethyl-tert-butyl ether	ug/L	100	119	119	77-136	
Ethylbenzene	ug/L	50	54.6	109	80-127	
m&p-Xylene	ug/L	100	110	110	82-127	
Methyl-tert-butyl ether	ug/L	50	55.2	110	71-130	
Naphthalene	ug/L	50	56.3	113	52-136	
o-Xylene	ug/L	50	55.9	112	83-124	
tert-Amyl Alcohol	ug/L	1000	1080	108	50-150	
tert-Amylmethyl ether	ug/L	100	103	103	50-150	
tert-Butyl Alcohol	ug/L	500	509	102	50-150	
tert-Butyl Formate	ug/L	400	384	96	50-150	
Toluene	ug/L	50	58.4	117	76-126	
1,2-Dichloroethane-d4 (S)	%			103	79-120	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

LABORATORY CONTROL SAMPLE: 374214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			106	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			108	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374215 374216

Parameter	Units	9258190006 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	53.7	50.6	107	101	74-136	6	30	
Toluene	ug/L	ND	50	50	58.4	58.1	117	116	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						101	104	79-120			
4-Bromofluorobenzene (S)	%						104	104	87-109			
Dibromofluoromethane (S)	%						95	97	85-115			
Toluene-d8 (S)	%						101	101	70-120			

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: MSV/9250
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9258190012

METHOD BLANK: 375691
Matrix: Water
Associated Lab Samples: 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/07/09 12:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/07/09 12:02	
Benzene	ug/L	ND	5.0	12/07/09 12:02	
Diisopropyl ether	ug/L	ND	5.0	12/07/09 12:02	
Ethanol	ug/L	ND	200	12/07/09 12:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/07/09 12:02	
Ethylbenzene	ug/L	ND	5.0	12/07/09 12:02	
m&p-Xylene	ug/L	ND	10.0	12/07/09 12:02	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/07/09 12:02	
Naphthalene	ug/L	ND	5.0	12/07/09 12:02	
o-Xylene	ug/L	ND	5.0	12/07/09 12:02	
tert-Amyl Alcohol	ug/L	ND	100	12/07/09 12:02	
tert-Amylmethyl ether	ug/L	ND	10.0	12/07/09 12:02	
tert-Butyl Alcohol	ug/L	ND	100	12/07/09 12:02	
tert-Butyl Formate	ug/L	ND	50.0	12/07/09 12:02	
Toluene	ug/L	ND	5.0	12/07/09 12:02	
1,2-Dichloroethane-d4 (S)	%	97	79-120	12/07/09 12:02	
4-Bromofluorobenzene (S)	%	104	87-109	12/07/09 12:02	
Dibromofluoromethane (S)	%	93	85-115	12/07/09 12:02	
Toluene-d8 (S)	%	104	70-120	12/07/09 12:02	

LABORATORY CONTROL SAMPLE: 375692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	56.4	113	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1090	109	55-148	
Benzene	ug/L	50	45.6	91	78-128	
Diisopropyl ether	ug/L	50	50.8	102	74-131	
Ethanol	ug/L	2000	2070	103	53-150	
Ethyl-tert-butyl ether	ug/L	100	108	108	77-136	
Ethylbenzene	ug/L	50	49.9	100	80-127	
m&p-Xylene	ug/L	100	101	101	82-127	
Methyl-tert-butyl ether	ug/L	50	50.3	101	71-130	
Naphthalene	ug/L	50	50.1	100	52-136	
o-Xylene	ug/L	50	51.3	103	83-124	
tert-Amyl Alcohol	ug/L	1000	1130	113	50-150	
tert-Amylmethyl ether	ug/L	100	98.5	98	50-150	
tert-Butyl Alcohol	ug/L	500	510	102	50-150	
tert-Butyl Formate	ug/L	400	410	102	50-150	
Toluene	ug/L	50	53.0	106	76-126	
1,2-Dichloroethane-d4 (S)	%			103	79-120	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

LABORATORY CONTROL SAMPLE: 375692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			107	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			106	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 375693 375694

Parameter	Units	9258542005 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	55.8	64.1	111	128	74-136	14	30	
Toluene	ug/L	ND	50	50	70.7	77.9	141	156	73-131	10	30	M0
1,2-Dichloroethane-d4 (S)	%						106	110	79-120			
4-Bromofluorobenzene (S)	%						106	106	87-109			
Dibromofluoromethane (S)	%						101	101	85-115			
Toluene-d8 (S)	%						115	112	70-120			

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: WET/10627 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous
Associated Lab Samples: 9258190001, 9258190002, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009

METHOD BLANK: 372378 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	12/01/09 21:02	

LABORATORY CONTROL SAMPLE: 372379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.6	108	90-110	

SAMPLE DUPLICATE: 372380

Parameter	Units	9257894012 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 372381

Parameter	Units	9257966015 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: WET/10628 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous
Associated Lab Samples: 9258190003, 9258190007, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372382 Matrix: Water
Associated Lab Samples: 9258190003, 9258190007, 9258190010, 9258190011, 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	12/01/09 21:35	

LABORATORY CONTROL SAMPLE: 372383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.7	110	90-110	

SAMPLE DUPLICATE: 372384

Parameter	Units	9258190010 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 372385

Parameter	Units	9258287010 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: WETA/6320 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 371350 Matrix: Water
Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009, 9258190010, 9258190011, 9258190012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/24/09 23:09	

LABORATORY CONTROL SAMPLE: 371351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.4	108	90-110	

MATRIX SPIKE SAMPLE: 371352

Parameter	Units	9258190005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	5	8.1	129	90-110	M0

MATRIX SPIKE SAMPLE: 371353

Parameter	Units	9258190006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.90	5	6.2	106	90-110	

SAMPLE DUPLICATE: 371354

Parameter	Units	9258190009 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1.2	1	20	

SAMPLE DUPLICATE: 371355

Parameter	Units	9258190008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.1	1.1	0	20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

QC Batch: WETA/6322
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9258190007

METHOD BLANK: 371384 Matrix: Water
Associated Lab Samples: 9258190007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/25/09 10:00	

LABORATORY CONTROL SAMPLE: 371385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.3	105	90-110	

MATRIX SPIKE SAMPLE: 371386

Parameter	Units	9258191003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	5	7.4	106	90-110	

MATRIX SPIKE SAMPLE: 371387

Parameter	Units	9258287006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.93	5	7.0	122	90-110	M0

SAMPLE DUPLICATE: 371388

Parameter	Units	9258287002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.77	0.78	2	20	

SAMPLE DUPLICATE: 371389

Parameter	Units	9258287003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.22	0.21	4	20	

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QUALIFIERS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258190

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

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received outside EPA method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 01, 2009

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville NC 28078

TEL: (704) 875-9092
FAX: (704) 875-9091

RE: 9258190

Dear Kevin Godwin: Order No: 0911K67

Analytical Environmental Services, Inc. received 12 samples on November 25, 2009 11:50 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest
Project Manager

0911K67

Chain of Custody

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Workorder: 9258190 **Workorder Name:** FORMER RYDER TRUCK **Results Requested** 12/10/2009

Report / Invoice To	Subcontract To
Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com	P.O. CHS06363 AES

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Sulfide (SC)	LAB USE ONLY
1	MW-1	11/23/2009 11:59	9258190001	Water	1	X	
2	MW-2	11/23/2009 12:10	9258190002	Water	1	X	
3	MW-2D	11/23/2009 14:21	9258190003	Water	1	X	
4	MW-5	11/23/2009 12:22	9258190004	Water	1	X	
5	MW-7	11/23/2009 09:45	9258190005	Water	1	X	
6	MW-8	11/23/2009 10:00	9258190006	Water	1	X	
7	MW-9	11/23/2009 15:37	9258190007	Water	1	X	
8	MW-10	11/23/2009 10:45	9258190008	Water	1	X	
9	MW-11	11/23/2009 10:13	9258190009	Water	1	X	
10	MW-12	11/23/2009 13:00	9258190010	Water	1	X	
11	MW-13	11/23/2009 13:15	9258190011	Water	1	X	
12	MW-14	11/23/2009 13:30	9258190012	Water	1	X	
13							
14							
15							
16							

0911K67

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[illegible signature]	11/24/09 17:00	Fedex		
2			[illegible signature]	11/25/09	1150
3					
4					
5					

Analytical Environmental Services, Inc **Date:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-1
Project:	9258190	**Collection Date:**	11/23/2009 11:59:00 AM
Lab ID:	0911K67-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	2.5	1.0		mg/L	R160767	1	11/27/2009 11:38	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-2
Project:	9258190	**Collection Date:**	11/23/2009 12:10:00 PM
Lab ID:	0911K67-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	BRL	1.0		mg/L	R160767	1	11/27/2009 11:53	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-2D
Project:	9258190	**Collection Date:**	11/23/2009 2:21:00 PM
Lab ID:	0911K67-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	14	1.0		mg/L	R160767	1	11/27/2009 12:07	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-5
Project:	9258190	**Collection Date:**	11/23/2009 12:22:00 PM
Lab ID:	0911K67-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	3.3	1.0		mg/L	R160767	1	11/27/2009 12:22	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-7
Project:	9258190	**Collection Date:**	11/23/2009 9:45:00 AM
Lab ID:	0911K67-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	1.4	1.0		mg/L	R160767	1	11/27/2009 14:20	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-8
Project:	9258190	**Collection Date:**	11/23/2009 10:00:00 AM
Lab ID:	0911K67-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	BRL	1.0		mg/L	R160767	1	11/27/2009 14:34	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-9
Project:	9258190	**Collection Date:**	11/23/2009 3:37:00 PM
Lab ID:	0911K67-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	1.7	1.0		mg/L	R160767	1	11/27/2009 14:49	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-10
Project:	9258190	**Collection Date:**	11/23/2009 10:45:00 AM
Lab ID:	0911K67-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	BRL	1.0		mg/L	R160767	1	11/27/2009 15:04	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-11
Project:	9258190	**Collection Date:**	11/23/2009 10:13:00 AM
Lab ID:	0911K67-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	BRL	1.0		mg/L	R160767	1	11/27/2009 15:18	GR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc **Date:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-12
Project:	9258190	**Collection Date:**	11/23/2009 1:00:00 PM
Lab ID:	0911K67-010	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	BRL	1.0		mg/L	R160767	1	11/27/2009 15:33	GR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value

Analytical Environmental Services, Inc **Date:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-13
Project:	9258190	**Collection Date:**	11/23/2009 1:15:00 PM
Lab ID:	0911K67-011	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	12	1.0		mg/L	R160767	1	11/27/2009 15:48	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-14
Project:	9258190	**Collection Date:**	11/23/2009 1:30:00 PM
Lab ID:	0911K67-012	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Sulfate	1.2	1.0		mg/L	R160767	1	11/27/2009 17:01	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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.

Sample/Cooler Receipt Checklist

Client PACE Work Order Number 0911K67

Checklist completed by N Dunlap 11/25/09
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.8°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by ND.

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: *01-Dec-09*

CLIENT: Pace Analytical Services, Inc.
Work Order: 0911K67
Project: 9258190

ANALYTICAL QC SUMMARY REPORT

TestCode: ION SCAN SW9056A

Sample ID: **MB-R160767**	SampType: **MBLK**	Batch ID: **R160767**	Units: **mg/L**	Prep Date:	RunNo: **160767**
Client ID:	TestCode: **ION SCAN SW9056A**			Analysis Date: **11/27/2009**	SeqNo: **3323428**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	BRL	1.0	0	0	0	0	0	0	0		

Sample ID: **LCS-R160767**	SampType: **LCS**	Batch ID: **R160767**	Units: **mg/L**	Prep Date:	RunNo: **160767**
Client ID:	TestCode: **ION SCAN SW9056A**			Analysis Date: **11/27/2009**	SeqNo: **3323425**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.79	1.0	25	0.3265	106	90	110	0	0		

Sample ID: **0911K16-003EMS**	SampType: **MS**	Batch ID: **R160767**	Units: **mg/L**	Prep Date:	RunNo: **160767**
Client ID:	TestCode: **ION SCAN SW9056A**			Analysis Date: **11/27/2009**	SeqNo: **3323435**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	27.15	1.0	25	0.5843	106	90	110	0	0		

Sample ID: **0911K67-005AMS**	SampType: **MS**	Batch ID: **R160767**	Units: **mg/L**	Prep Date:	RunNo: **160767**
Client ID: **MW-7**	TestCode: **ION SCAN SW9056A**			Analysis Date: **11/27/2009**	SeqNo: **3323448**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	27.22	1.0	25	1.435	103	90	110	0	0		

Sample ID: **0911K16-003EMSD**	SampType: **MSD**	Batch ID: **R160767**	Units: **mg/L**	Prep Date:	RunNo: **160767**
Client ID:	TestCode: **ION SCAN SW9056A**			Analysis Date: **11/27/2009**	SeqNo: **3323436**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.98	1.0	25	0.5843	106	90	110	27.15	0.654	20	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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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

1336535

Section A Required Client Information:

Company: BLE
Address: 6004 Ponders Ct
Greenville, SC 29615
Email To: Trevor@BLECorp.com
Phone: (864)288-8565 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Trevor
Copy To:
Purchase Order No.:
Project Name: Former Ryder Truck
Project Number:

Section C Invoice Information:

Attention: Trevor
Company Name: BLE
Address: SAME
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1126-7

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 MW, 12 DCA, 8oxy 8260	EDB 8011	Fe +	Lead (Pb)	Nitrate	Sulfate	8 RCRA	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			11/23/09	1159												✓	✓	✓	✓	✓	✓	✓		925890 001
2	MW-2						1210												↓	↓	↓	↓	↓	↓	↓		002
3	MW-2D						1421												↓	↓	↓	↓	↓	↓	↓		003
4	[redacted]																										
5	MW-5						1222												✓	✓	✓	✓	✓	✓	✓		004
6	MW-7						0945																				005
7	MW-8						1000																				006
8	MW-9						1537																				007
9	MW-10						1045																				008
10	MW-11						1013																				009
11	MW-12						1300																				010
12	MW-13						1315																				011

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)
	IVAN A. Irizarry	11/23/09	1800	Pace	11/24	1010	4.6	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: IVAN A. Irizarry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/23/09

*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

1336536

Section A Required Client Information:

Company: BLE
Address: 6004 Ponders Ct
Greenville, SC 29615
Email To: Trevor@BLEcorp.com
Phone: (864) 288-1265 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Trevor
Copy To:
Purchase Order No.:
Project Name: Former Ryder Truck
Project Number:

Section C Invoice Information:

Attention: Trevor
Company Name: BLE
Address: SAME
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	BTEX, MTBE, 12DCA, 8 oxy 8260	EDB 8011	Fe+	Lead (Pb) 6010	Nitrate	Sulfate	8 RCRA	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-14					11/23/09	1336			✓		✓	✓					✓	✓	✓	✓	✓	✓	✓	✓			9258940
2	[redacted]					[redacted]																						012
3	[redacted]																											
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ivan A. Irizarry, BLE	11/23/09	1800	Jmoore Pace	11/24	1010	4.6	4	4	4

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ivan A. Irizarry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/23/09

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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(704)875-9092

December 09, 2009

Mr. Trevor Benton
Bunnell-Lammons Engineering
6004 Ponders Court
Greenville, SC 29615

RE: Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

Dear Mr. Benton:
Enclosed are the analytical results for sample(s) received by the laboratory on November 25, 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 Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

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: FORMER RYDER TRUCK
Pace Project No.: 9258321

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9258321001	**MW-16**	Water	11/24/09 09:10	11/25/09 09:30

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SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9258321001	**MW-16**	EPA 8011	RES	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	SHB	1

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

Sample: MW-16 **Lab ID: 9258321001** Collected: 11/24/09 09:10 Received: 11/25/09 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	12/04/09 16:20	12/06/09 22:13	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	12/04/09 16:20	12/06/09 22:13	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/02/09 14:10	12/05/09 00:09	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:47	7440-38-2	
Barium, Dissolved	**119**	ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:47	7440-39-3	Z2
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:47	7440-43-9	
Chromium, Dissolved	**0.44J**	ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:47	7440-47-3	Z2
Lead, Dissolved	ND	ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:47	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:47	7782-49-2	
Silver, Dissolved	**0.22J**	ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:47	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:08	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/05/09 11:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/05/09 11:21	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/05/09 11:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/05/09 11:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/05/09 11:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/05/09 11:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/05/09 11:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/05/09 11:21	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/05/09 11:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/05/09 11:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/05/09 11:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/05/09 11:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/05/09 11:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/05/09 11:21	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/05/09 11:21	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		12/05/09 11:21	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		12/05/09 11:21	1868-53-7	
Toluene-d8 (S)	104	%	70-120		1		12/05/09 11:21	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-109		1		12/05/09 11:21	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		12/05/09 11:21	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3500-Fe D#4								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/01/09 22:05		H3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.10	0.10	1		11/26/09 00:43		M0

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: OEXT/8720
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9258321001

METHOD BLANK: 374890 Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/06/09 16:52	
1-Chloro-2-bromopropane (S)	%	98	60-140	12/06/09 16:52	

LABORATORY CONTROL SAMPLE & LCSD: 374891 374892

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	0.32	0.30	112	106	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				108	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374894 374895

Parameter	Units	9258321001 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	96	98	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						96	97	60-140			

SAMPLE DUPLICATE: 374893

Parameter	Units	9258191003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		99	0		

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: MPRP/5469
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9258321001

METHOD BLANK: 373334 Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/04/09 23:44	

LABORATORY CONTROL SAMPLE: 373335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	482	96	80-120	

MATRIX SPIKE SAMPLE: 373336

Parameter	Units	9258169006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	475	95	75-125	

SAMPLE DUPLICATE: 373337

Parameter	Units	9258169007 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: MPRP/5446
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Filtered
Associated Lab Samples: 9258321001

METHOD BLANK: 372150 Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	3.5J	5.0	12/01/09 14:01	
Barium, Dissolved	ug/L	3.3J	5.0	12/01/09 14:01	
Cadmium, Dissolved	ug/L	0.83J	1.0	12/01/09 14:01	
Chromium, Dissolved	ug/L	3.0J	5.0	12/01/09 14:01	
Lead, Dissolved	ug/L	ND	5.0	12/01/09 14:01	
Selenium, Dissolved	ug/L	5.1J	10.0	12/01/09 14:01	
Silver, Dissolved	ug/L	1.5J	5.0	12/01/09 14:01	

LABORATORY CONTROL SAMPLE: 372151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	498	100	80-120	
Barium, Dissolved	ug/L	500	509	102	80-120	
Cadmium, Dissolved	ug/L	500	506	101	80-120	
Chromium, Dissolved	ug/L	500	509	102	80-120	
Lead, Dissolved	ug/L	500	496	99	80-120	
Selenium, Dissolved	ug/L	500	499	100	80-120	
Silver, Dissolved	ug/L	250	261	104	80-120	

MATRIX SPIKE SAMPLE: 372152

Parameter	Units	9257466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	9.7	500	434	85	75-125	
Barium, Dissolved	ug/L	236	500	648	82	75-125	
Cadmium, Dissolved	ug/L	ND	500	408	82	75-125	
Chromium, Dissolved	ug/L	19.4	500	429	82	75-125	
Lead, Dissolved	ug/L	39.0	500	435	79	75-125	
Selenium, Dissolved	ug/L	ND	500	427	85	75-125	
Silver, Dissolved	ug/L	ND	250	216	86	75-125	

SAMPLE DUPLICATE: 372153

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	17.3	22.4	26	20	R1
Barium, Dissolved	ug/L	1020	1030	1	20	
Cadmium, Dissolved	ug/L	1.1	1.3	13	20	
Chromium, Dissolved	ug/L	ND	1.5J		20	
Lead, Dissolved	ug/L	ND	ND		20	

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(704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

SAMPLE DUPLICATE: 372153

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium, Dissolved	ug/L	27.0	25.0	8	20	
Silver, Dissolved	ug/L	ND	4.2J		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: MERP/2527
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 9258321001

METHOD BLANK: 372167 Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	12/01/09 12:46	

LABORATORY CONTROL SAMPLE: 372168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	2.5	2.4	95	80-120	

MATRIX SPIKE SAMPLE: 372169

Parameter	Units	9257466001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	2.5	2.3	88	75-125	

SAMPLE DUPLICATE: 372170

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	0.50		25	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: MSV/9235
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9258321001

METHOD BLANK: 374942
Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/05/09 10:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/05/09 10:45	
Benzene	ug/L	ND	5.0	12/05/09 10:45	
Diisopropyl ether	ug/L	ND	5.0	12/05/09 10:45	
Ethanol	ug/L	ND	200	12/05/09 10:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/05/09 10:45	
Ethylbenzene	ug/L	ND	5.0	12/05/09 10:45	
m&p-Xylene	ug/L	ND	10.0	12/05/09 10:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/05/09 10:45	
Naphthalene	ug/L	ND	5.0	12/05/09 10:45	
o-Xylene	ug/L	ND	5.0	12/05/09 10:45	
tert-Amyl Alcohol	ug/L	ND	100	12/05/09 10:45	
tert-Amylmethyl ether	ug/L	ND	10.0	12/05/09 10:45	
tert-Butyl Alcohol	ug/L	ND	100	12/05/09 10:45	
tert-Butyl Formate	ug/L	ND	50.0	12/05/09 10:45	
Toluene	ug/L	ND	5.0	12/05/09 10:45	
1,2-Dichloroethane-d4 (S)	%	103	79-120	12/05/09 10:45	
4-Bromofluorobenzene (S)	%	106	87-109	12/05/09 10:45	
Dibromofluoromethane (S)	%	95	85-115	12/05/09 10:45	
Toluene-d8 (S)	%	106	70-120	12/05/09 10:45	

LABORATORY CONTROL SAMPLE: 374943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	60.8	122	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1250	125	55-148	
Benzene	ug/L	50	49.6	99	78-128	
Diisopropyl ether	ug/L	50	56.5	113	74-131	
Ethanol	ug/L	2000	3000	150	53-150	
Ethyl-tert-butyl ether	ug/L	100	117	117	77-136	
Ethylbenzene	ug/L	50	55.3	111	80-127	
m&p-Xylene	ug/L	100	113	113	82-127	
Methyl-tert-butyl ether	ug/L	50	54.4	109	71-130	
Naphthalene	ug/L	50	56.0	112	52-136	
o-Xylene	ug/L	50	58.3	117	83-124	
tert-Amyl Alcohol	ug/L	1000	1280	128	50-150	
tert-Amylmethyl ether	ug/L	100	107	107	50-150	
tert-Butyl Alcohol	ug/L	500	590	118	50-150	
tert-Butyl Formate	ug/L	400	365	91	50-150	
Toluene	ug/L	50	59.6	119	76-126	
1,2-Dichloroethane-d4 (S)	%			101	79-120	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

LABORATORY CONTROL SAMPLE: 374943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			95	85-115	
Toluene-d8 (S)	%			105	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374944 374945

Parameter	Units	9258328023 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	45.3	49.9	91	100	74-136	10	30	
Toluene	ug/L	ND	50	50	56.7	60.0	113	120	73-131	6	30	
1,2-Dichloroethane-d4 (S)	%						107	102	79-120			
4-Bromofluorobenzene (S)	%						104	110	87-109			S0
Dibromofluoromethane (S)	%						100	96	85-115			
Toluene-d8 (S)	%						105	105	70-120			

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: WET/10628
QC Batch Method: SM 3500-Fe D#4
Associated Lab Samples: 9258321001

Analysis Method: SM 3500-Fe D#4
Analysis Description: Iron, Ferrous

METHOD BLANK: 372382 Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	12/01/09 21:35	

LABORATORY CONTROL SAMPLE: 372383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.7	110	90-110	

SAMPLE DUPLICATE: 372384

Parameter	Units	9258190010 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 372385

Parameter	Units	9258287010 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

QC Batch: WETA/6326
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9258321001

METHOD BLANK: 372008 Matrix: Water
Associated Lab Samples: 9258321001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/26/09 00:43	

LABORATORY CONTROL SAMPLE: 372009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE SAMPLE: 372010

Parameter	Units	9258321001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.4	5	13.5	243	90-110	M0

SAMPLE DUPLICATE: 372011

Parameter	Units	9258191006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.1	1.1	1	20	

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QUALIFIERS

Project: FORMER RYDER TRUCK
Pace Project No.: 9258321

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

H3	Sample was received outside EPA method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
Z2	Analyte present in the associated method blank above the detection limit.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 01, 2009

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville NC 28078

TEL: (704) 875-9092
FAX: (704) 875-9091

RE: 9258321

Dear Kevin Godwin: Order No: 0911L53

Analytical Environmental Services, Inc. received 1 samples on November 28, 2009 10:00 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-North Carolina Certification number 562 for analysis of Surface Water, Groundwater, Effluent, effective until 12/31/09.
-South Carolina Environmental Laboratory Certification number 98016002 effective until 12/31/09.
South Carolina Environmental Laboratory Certification number 98016003 effective until 6/30/10.

These results relate only to the items tested. This report may only be reproduced in full and with

James Forrest
Project Manager

0911L53

Chain of Custody

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Workorder: 9258321 **Workorder Name:** FORMER RYDER TRUCK **Results Requested** 12/11/2009

Report / Invoice To	Subcontract To
Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com	AES P.O. CHS060367

					Preserved Containers						Requested Analysis												
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved						SOH												LAB USE ONLY
1	MW-16	11/24/2009 09:10	9258321001	Water	1						1												
2																							
3																							
4																							
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	11/27/09	Fedex	
2				
3			M. Jr 11/28/09	10:00
4				
5				

Comments: Fedex

Analytical Environmental Services, Inc **Date:** 1-Dec-09

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-16
Lab Order	0911L53	**Tag Number:**	
Project:	9258321	**Collection Date:**	11/24/2009 9:10:00 AM
Lab ID:	0911L53-001A	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Inorganic Anions by IC E300.0								
Sulfate	BRL	1.00		mg/L	R160876	1	11/30/2009 15:20	GR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Pace Work Order Number 0911L53

Checklist completed by M. D 11/28/09
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 3.1C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes ✓	No __ Not Applicable __

Adjusted? _____ Checked by M. D

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: *01-Dec-09*

CLIENT: Pace Analytical Services, Inc.
Work Order: 0911L53
Project: 9258321

ANALYTICAL QC SUMMARY REPORT

TestCode: Inorganic Anions by IC E300.0

Sample ID: **MB-R160876**	SampType: **MBLK**	Batch ID: **R160876**	Units: **mg/L**	Prep Date:	RunNo: **160876**
Client ID:	TestCode: **Inorganic Anions by IC E300.0**			Analysis Date: **11/30/2009**	SeqNo: **3325527**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	BRL	1.00	0	0	0	0	0	0	0		

Sample ID: **LCS-R160876**	SampType: **LCS**	Batch ID: **R160876**	Units: **mg/L**	Prep Date:	RunNo: **160876**
Client ID:	TestCode: **Inorganic Anions by IC E300.0**			Analysis Date: **11/30/2009**	SeqNo: **3325526**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.2	1.00	25	0.1065	104	90	110	0	0		

Sample ID: **0911L01-012EMS**	SampType: **MS**	Batch ID: **R160876**	Units: **mg/L**	Prep Date:	RunNo: **160876**
Client ID:	TestCode: **Inorganic Anions by IC E300.0**			Analysis Date: **11/30/2009**	SeqNo: **3325552**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	27.14	1.00	25	1.306	103	90	110	0	0		

Sample ID: **0911L50-003AMS**	SampType: **MS**	Batch ID: **R160876**	Units: **mg/L**	Prep Date:	RunNo: **160876**
Client ID:	TestCode: **Inorganic Anions by IC E300.0**			Analysis Date: **11/30/2009**	SeqNo: **3325571**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	27.58	1.00	25	0.8688	107	90	110	0	0		

Sample ID: **0911L01-012EMSD**	SampType: **MSD**	Batch ID: **R160876**	Units: **mg/L**	Prep Date:	RunNo: **160876**
Client ID:	TestCode: **Inorganic Anions by IC E300.0**			Analysis Date: **11/30/2009**	SeqNo: **3325554**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	27.26	1.00	25	1.306	104	90	110	27.14	0.451	20	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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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: of

1301362

Section A
Required Client Information:

Company: BLE
Address: Cooy Ponders Ct
Greenville, SC 29615
Email To: Trevor@BLEcorp.com
Phone: 864 288-1265 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Trevor
Copy To:
Purchase Order No.:
Project Name: Former Ryder Truck
Project Number:

Section C
Invoice Information:

Attention: Trevor
Company Name: BLE
Address: SAME
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1126-7

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 MN, 12 DCA, 8-oxy 8260	EDB 8011	Lead 6010	8 RCRA metals Filtered	Ferrous Iron	Nitrates	Sulfates						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9258321
1	MW-16	WT	G			11/24/09	910			✓		✓	✓						✓	✓	✓	✓	✓	✓	✓							001
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Requested Analysis Filtered (Y/N)

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)
	Ivan A. Irizarry, BLE	11/24/09	1800	[signature] / Pace	11/25	930	3.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ivan A. Irizarry
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/24/09

*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.

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAR 18 2010

MR ALLEN VAUGHN
ESTATE OF ROBERT VAUGHN
4 E PARKER RD
GREENVILLE SC 29611-3504

UST DOCKET 91eu

Re: **AFVR Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA # 38458
Release #2 reported February 25, 1997
Assessment Report received February 22, 2010
Greenville County

Dear Mr. Vaughn:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report and the next necessary scope of work is five Aggressive Fluid/Vapor Recovery (AFVR) events to remove free phase product from monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. Please conduct the AFVR events in the following order and 15 days apart. The 1st AFVR event on MW-4 and MW-17. The 2nd AFVR event on MW-6 and MW-18. The 3rd AFVR event on MW-3R. The 4th AFVR event on MW-15. The 5th AFVR event on MW-6. Thirty days after the last AFVR event please gauge the following monitoring wells MW-2, MW-3R, MW-4, MW-6, Mw-15, MW-17, and MW-18.

Cost Agreement # 38458 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR and gauging activities may proceed immediately upon receipt of this letter. The AFVR Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather conditions during the AFVR event.
- 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.

Bunnell-Lammons Engineering, Inc. 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 120 days from the date of this letter. Interim invoices may 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. 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 or inquiries regarding this project, please reference **UST Permit # 11929**. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 38458

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	5.0000	575.00	2,875.00
		B	PERSONNEL	6.0000	290.00	1,740.00
10 SAMPLE COLLECTION						
		E	GAUGE WELL ONLY	7.0000	20.00	140.00
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	5,000.0000	0.60	3,000.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	24,155.00	3,623.25
23 EFR						
		A	8 HOUR EVENT	5.0000	3,000.00	15,000.00
		C	OFF GAS TREATMENT	40.0000	35.00	1,400.00
					Total Amount	27,778.25

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

DIVISION OF UST MANAGEMENT
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201

TO: Underground Storage Tank (UST) Contractors

FROM: Larry G. Sorrell
Financial Section
UST Management Division

DATE: March 15, 2010

SUBJECT: Transition to New Financial Systems

Effective **May 3, 2010,** the South Carolina Department of Health and Environmental Control will be converting to a new statewide system, the South Carolina Enterprise Information System (SCEIS). The conversion to SCEIS is expected to improve services by state agencies and provide the citizens of the state with better services at reduced costs.

As part of this transition, we will be required to shut down our financial and purchasing functions in our existing system on **April 16, 2010.** The transition period could last as long as six weeks. During this time period, no purchasing, receiving or vendor payments can be processed.

In order to prepare for this conversion, we are taking every step possible to ensure that minimal delays occur in our payment process. All payable invoices received by **April 1, 2010,** will be processed into the accounting system we are currently using and forwarded to Accounts Payable for payment. Invoices received between **April 2 and May** 3 will not be processed to Accounts Payable until the first two weeks in May, at the earliest. At that time SCEIS will be used to process invoices received during the shut down period. We respectfully ask for patience and consideration during this transition period so that no services are interrupted.

If you have any questions regarding these changes, please contact me at sorrellg@dhec.sc.gov or 803.896.6391.

C: Don Siron, Director of UST Program
Eric Cathcart, Manager of Regulatory Compliance Section
Chris Doll, Manager of Assessment Section
Lee Monts, Manager of Corrective Action Section
UST Financial Staff

TABLE 2

Historical Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #42024
BLE Project No. J11-1010-17

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-1	12/13/96	NA	20.6	1.74	2.61	6.4	31.35	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	2.6	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	0.028	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
MW-2	12/13/96	NA	249	22.5	43.5	363	678	11.1	900	NT	NT
	02/10/98	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	1.92	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	0.23	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	120	ND	6.8	170	296.8	ND	240	0.33	NT
	05/29/07	0.26	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	NA	25.6	<5.0	<5.0	41.1J	66.7	<5.0	53.3	0.061	<5.0
	11/02/11	NA	35.0	<5.0	<5.0	16.0	51.0	0.59J	110.0	<0.019	<5.0
MW-2D	02/10/98	NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	3.7	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND	ND	ND	NT
	11/23/09	NA	1.2J	<5.0	<5.0	<10.0	1.2J	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	2.9J	<5.0	<5.0	<5.0	2.9J	0.68J	3.2J	<0.019	<5.0
MW-3	02/10/98	NA	62.5	6.4	19.3	193	281.2	ND	106	ND	NT
	03/29/99	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	Monitoring Well Abandoned									
MW-3R	02/24/06	NA	40.0	ND	ND	81.0	121	ND	120	0.90	NT
	05/29/07	NA	48.0	ND	ND	109.0	157	ND	140	0.51	NT
	09/09/08	NA	23.2	ND	ND	17.7	40.9	ND	63.2	0.44	ND
	02/23/09	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	0.35	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NA	2.2	ND	1.73	150	153.93	ND	186	ND	NT
	03/29/99	NA	ND	ND	ND	10.6	10.6	ND	26.2	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND	49.6	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	0.96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
	11/23/09	0.47	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	1.32	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	02/10/98	NA	16.5	ND	ND	6.83	23.33	ND	33.3	ND	NT
	03/29/99	NA	ND	ND	1.13	6.26	7.39	ND	50.2	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	25.2	11.5	5.10	32.4	74.2	ND	5.0	NT	NT
	02/02/04	NA	23.1	4.0	2.0	8.7	37.8	ND	ND	NT	NT
	01/20/05	NA	11.0	ND	ND	ND	11.0	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.0	5.9	2.8	7.8	17.5	ND	9.7	ND	NT
	11/23/09	NA	<5.0	<5.0	1.8J	<10.0	1.8J	<5.0	<5.0	<0.019	<5.0
	11/02/11	NA	0.32J	2.3J	2.4J	3.6J	8.6J	<5.0	<5.0	<0.020	<5.0
MW-6	02/10/98	NA	523.0	1,670	104	434	2,731	92.7	409	ND	NT
	03/29/99	1.83	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	>3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	>3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	2.19	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	1.72	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	1.54	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.42	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry									
	11/23/09	3.10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	2.90	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	12.9	ND	ND	11.6	24.5	6.8	20.1	NT	NT
	01/28/03	NA	6.2	ND	ND	4.0	10.2	3.2	6.0	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	3.8	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	34.0	ND	ND	40.6	74.6	2.8	89.9	0.23	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.019	<5.0
	11/02/11	NA	0.22J	<5.0	<5.0	<5.0	0.22J	<5.0	<5.0	0.023	<5.0

Prepared By: IAI
Checked By: RAD

TABLE 2

Historical Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #42024
BLE Project No. J11-1010-17

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	--	40	25	0.05	5
MW-8	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
MW-9	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
MW-10	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	5.4J	5.4J	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
MW-12	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09	Dry									
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	14.0	<5.0	<0.02	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	18.0	<5.0	<0.019	<5.0
MW-13	02/24/06	NA	**100**	ND	ND	110	210	ND	**100**	**0.76**	NT
	05/29/07	NA	**160**	ND	ND	199	359	ND	**170**	**0.62**	NT
	09/09/08	NA	**77**	ND	ND	101	178	ND	**226**	**0.162**	ND
	02/23/09	NA	**23.5**	ND	ND	46.2	69.7	ND	**68.1**	**0.18**	NT
	11/23/09	NA	**23.6**	<5.0	<5.0	69.4	93.0	<5.0	**58.4**	**0.46**	<5.0
	11/02/11	NA	**34**	<5.0	<5.0	82.0	116.0	1.7J	**130**	**0.30**	<5.0
MW-14	02/24/06	NA	**160**	34.0	480	620	1,294	ND	**160**	**0.46**	NT
	05/29/07	NA	**220**	ND	550	700	1,470	ND	**250**	**0.26**	NT
	09/09/08	NA	**82.4**	3.81	54.8	67.1	208.11	ND	**75**	**0.118**	ND
	02/23/09	NA	**175**	9.9	303	119.8	607.7	1.9	**194**	**0.20**	NT
	11/23/09	NA	**150**	10.5	263	93.8J	517.3	<10.0	**81.5**	**0.084**	<10.0
	11/02/11	NA	**36**	2.0J	65	4.3J	107.3J	<5.0	**29**	0.013J	<5.0
MW-14 (DUP)	11/02/11	NA	**200**	12.0	510.0	40.0	762	0.53J	**140**	0.031	<5.0
MW-15	02/24/06	NA	**100**	8.0	25.0	160	293	ND	**140**	**0.54**	NT
	05/29/07	NA	**190**	12.0	21	240	463	ND	**390**	**0.45**	NT
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.13**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.90**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.87**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/24/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
MW-17	02/23/09	**0.79**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**2.31**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**1.65**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	**0.45**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.11**	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.56**	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Blank	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
Trip Blank	11/02/11	NA	0.20J	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSLs
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: RAD

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

FEB 1 3 2012

Re: **Aggressive Fluid and Vapor Recovery Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA# 43100
Release #2 reported February 25, 1997
Monitoring Report received January 17, 2012
Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor. The next appropriate scope of work is to continue aggressive fluid and vapor recovery (AFVR) events to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). Please have your contractor conduct four events on MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The first event should be conducted on MW-4 and MW-17. The second event should be conducted on MW-6, MW-15, and MW-18. The third event should be conducted on MW-3R. The fourth event should be conducted on MW-6. The events should be spaced a minimum of fifteen days apart to allow equilibrium conditions to reestablish, and must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

Cost Agreement #43100 has been approved in the amount shown on the enclosed cost agreement form for the AFVR events. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may 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 SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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 Division grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference UST Permit #11929. If there are any questions concerning this project, feel free to 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, Geologist/Hydrologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc)
Technical File (w/enc)

Approved Cost Agreement 43100

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM

PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	A EQUIPMENT	4.0000	575.00	2,300.00
	B PERSONNEL	4.0000	290.00	1,160.00
17 DISPOSAL				
	A WASTEWATER	4,000.0000	0.80	3,200.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	19,780.00	2,967.00
23 EFR				
	A 8 HOUR EVENT	4.0000	3,000.00	12,000.00
	C OFF GAS TREATMENT	32.0000	35.00	1,120.00
		Total Amount		22,747.00

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

SEP 0 7 2012

MR TREVOR BENTON
BUNNELL-LAMMONS ENGINEERING INC
6004 PONDERS COURT
GREENVILLE SC 29615

Re: Soil Boring/Monitoring Well Approval Letter
Former Ryder Terminal, 10 Woods Lake Drive, Greenville, SC
UST Permit # 11929; UMW# 24744
Release Reported February 25, 1997
Greenville County

Dear Mr. Benton:

The Underground Storage Tank Management Division of the South Carolina Department of Health and Environmental Control (Agency) has enclosed the soil boring/monitoring well approval for the installation of eleven soil borings.

On all correspondence regarding this site, please reference UST Permit #11929. If you have questions concerning this correspondence, feel free to contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Soil boring/Monitoring Well Approval

cc: Technical File (w/ enc)

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

Soil Boring/Monitoring Well Approval

Approval is hereby granted to: BLE, Inc.
(On behalf of): Ms. Dauten
Facility: Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit Number: 11929
County: Greenville

This approval is for the installation of eleven (11) soil boring/groundwater monitoring wells. The soil borings/monitoring wells are to be installed in the approved locations. Soil borings/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 Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f

4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.

5. If any of the information provided to the Agency changes, notification to 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. Agency approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: September 7, 2012 Approval #: UMW-24744

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

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

SEP 1 3 2012

Re: **QAPP Contractor Addendum Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929
Release #2 reported February 25, 1997
Aggressive Fluid Vapor Recovery Report Received July 20, 2012
Greenville County

Dear Ms. Mumbauer:

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

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The groundwater sampling event should be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations. The groundwater samples should be analyzed for BTEX + Naphth + MtBE, 1,2 DCA, oxygenates, ethanol, and EDB. A copy of the Agency QAPP for the UST Management Division is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

Please have your contractor complete and submit the QAPP Contractor Addendum and Cost Agreement within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins**.

On all correspondence concerning this site, please reference **UST Permit # 11929.** If there are any questions concerning this project, please contact me at (803) 896-6323 or by email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615
Technical File

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

October 31, 2012

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Ms. Stephanie Briney, Hydrogeologist

Subject: **QAPP Addendum – Groundwater Sampling Event**
Former Ryder Terminal
10 Woods Lake Drive
Greenville, South Carolina
SCDHEC UST Permit #11929
BLE Project No. J11-1010-19

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Quality Assurance Program Plan (QAPP) addendum for the subject site. This submittal is in response to South Carolina Department of Health and Environmental Control's (SCDHEC) QAPP addendum request dated September 13, 2012, for the implementation of a groundwater sampling event at the subject site. Upon approval from SCDHEC, additional copies of the QAPP addendum will be distributed to the parties listed in section A3.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G., CHMM
Principal Hydrogeologist
Registered, South Carolina #893

cc: Ms. Ingrid Auten c/o Mrs. Annie Mumbauer, BB&T, PO Box 408, Greenville, SC 29602

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Former Ryder Terminal – UST Permit #11929

10 Woods Lake Road, Greenville, South Carolina

Prepared by: Trevor J. Benton, P.G – Bunnell-Lammons Engineering, Inc.

Date: October 31, 2012

Bunnell-Lammons Engineering, Inc. – SCDHEC Certified Contractor No. UCC-010

Approvals

Stephanie Briney SC DHEC Project Manager	______________________________ Signature	Date __________
Trever Z. Slack, P.G. Contractor QA Manager	______________________________ Signature	Date 10/31/12
Thomas L. Lammons, P.G. Site Rehabilitation Contractor	______________________________ Signature	Date 10/31/12
Neil Magee Laboratory Director	______________________________ Signature	Date 10/31/12

A2 Table of Contents

LIST OF FIGURES

Table of Contents – Continued

A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Stephanie Briney	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6323	803-896-6245	brineysm@dhec.sc.gov
Thomas Lammons, P.G.	Site Rehabilitation Contractor	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	tom@blecorp.com
Trevor Benton, P.G.	Field Manager	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	trevor@blecorp.com
Trever Slack, P.G.	Contractor QA Manager/ Project Verifier	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	tslack@blecorp.com
Neil Magee	Laboratory Director	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	nmagee@ shealylab.com

Table 1A Addendum Distribution List

A4 Project Organization

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
Project Manager	Stephanie Briney	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6323	803-896-6245	brineysm@dhec.sc.gov
Site Rehabilitation Contractor	Thomas Lammons, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	tom@blecorp.com
Field Manager	Trevor Benton, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	trevor@blecorp.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
Analytical Laboratory Director	Neil Magee	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	nmagee@ shealylab.com
Contractor QA Manager/ Project Verifier	Trever Slack, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	tslack@blecorp.com
Purge Water Disposal Contractor	Robin Woodward	VLS Recovery Services, LLC 305 South Main Street Mauldin, SC 29662	864-962-9953	864-963-3997	robin.woodward@vlsrs.com

Table 2A Addendum Role Identification and Contact Information

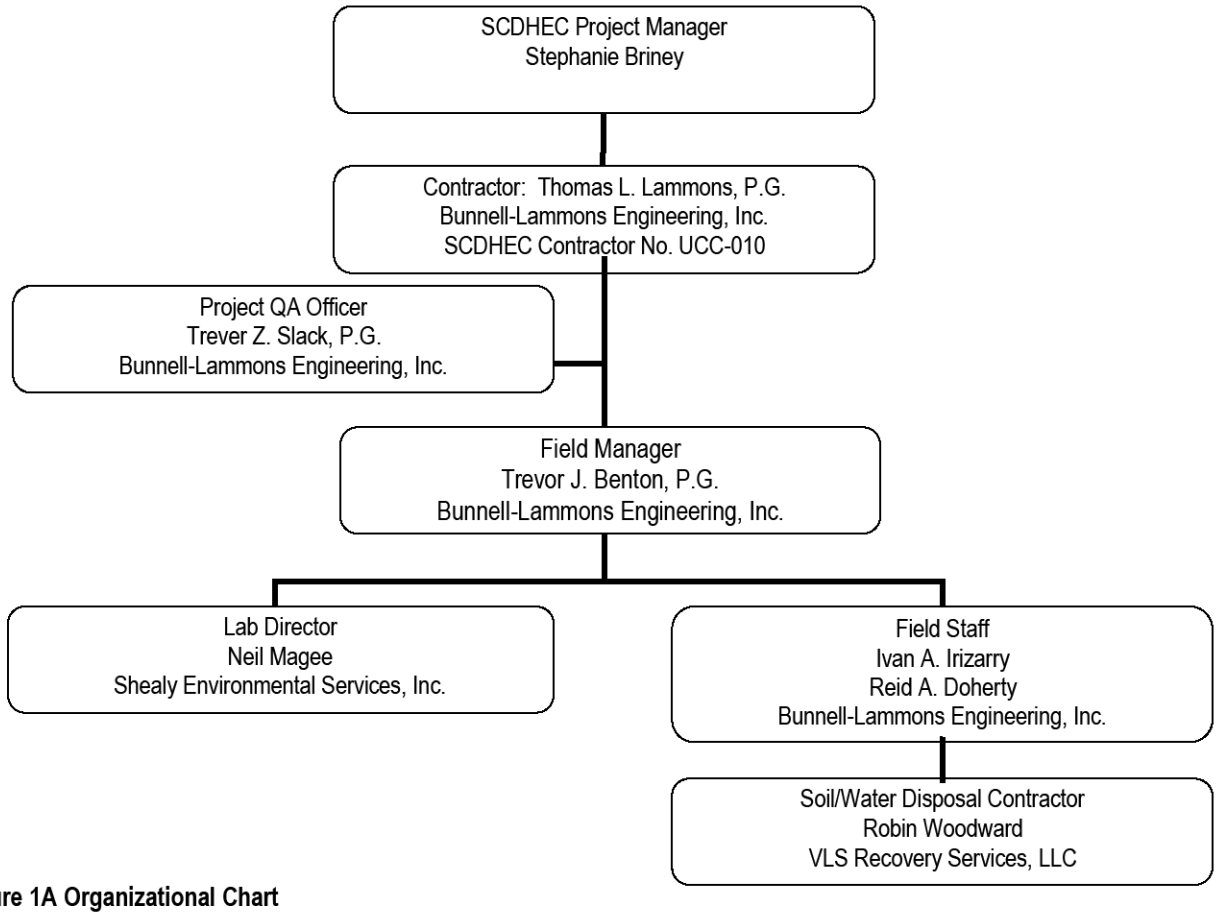


Figure 1A Organizational Chart

Discuss the responsibilities of key individuals associated with the project.

SCHEC Project Manager – Responsible for direct oversight of contractors conducting assessment and site rehabilitation of releases at UST sites. Perform day-to-day review of plans and reports related to site rehabilitation activities on their assigned sites. These reviews include verification and analysis of data submitted to the UST Management Division by site rehabilitation contractors and analytical laboratories and recommendations for future work. Also responsible for validating the Project Data.

Contractor – Responsible for managing and coordinating field and office activities necessary for assessment or cleanup. Perform data analysis and interpretation of field data.

Project QA Officer – Responsible for the Quality Assurance aspect of the Project. The QA officer is independent of the staff generating the project data; however, works closely with the field manager to ensure tasks are completed in compliance with the QAPP procedures. Additionally, the QA officer is responsible for monitoring the QA Project Plan.

Field Manager – Oversees and reviews all field activities. Responsible for all duties (i.e. site access, boring access, utility clearance, etc.) required to initiate field activities. Field staff and the analytical laboratory report directly to the field manager with any problems or potential issues. The field manager also reviews and compiles all field data provided by the field staff and analytical laboratory. Project information is discussed with the Project QA Officer to ensure compliance.

Lab Director – Responsible for ensuring production, quality, and overall direction of the laboratory. Oversees the laboratory QA manager and has the authority to stop work and initiate corrective actions if problems are identified.

Field Staff – Conducts field activities such as drilling oversight and sample collection. Field staff report directly to and provide daily field notes to the field manager. Additionally, the field staff are responsible for coordination and management of on-site subcontractors during field work completion.

Soil/Water Disposal Contractor – Responsible for classification and disposal of investigation derive waste in accordance with all regulatory requirements. Ensure that proper waste characterization is provided and transportation/disposal manifests are complete.

A5 Problem Definition/Background

Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater

contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2012 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. The most recent AFVR events were performed in March and April 2012. In an effort to determine what risk the release may pose to the environment, SCDHEC has required an updated comprehensive groundwater sampling event be conducted at the site. A Site Plan depicting the current groundwater monitoring well network is provided as Figure 2.

Please answer the following: Does this project fall under UST or Brownfields area?

UST Division (UST Permit #11929)

A6 Project/Task Description

1. ***Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).***

Conduct a groundwater sampling event at the subject site pursuant to SCDHEC's Master QAPP - Section A6 and B1. Currently, 19 groundwater monitoring wells are associated with the subject site. Each location will be sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tert-butyl-ether (MTBE), 1,2-dichloroethane (1,2-DCA), and 8-oxygenates by EPA Method 8260B and 1,2-dibromoethane (EDB) by EPA Method 8011.

2. ***The work will begin within <u>two weeks</u> after cost approval and the project should be <u>completed within 60 days</u>.***

3. ***Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.***

No time or resource constraints are foreseen at this time.

A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)

Detail the geographical area that is to be part of the project. Maps should be included to show not only the topography and the geographical area of the State, but also to show more detail of the site itself including property lines.

See attached Figures 1 and 2.

A8 Training and Certificates

Required training and licenses:

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Hydrogeologist	Thomas Lammons, P.G., CHMM	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#893
Hydrogeologist	Trevor Benton, P.G.	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#2395
Hydrogeologist	Trever Slack, P.G.	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#2565
Geologist	Ivan Irizarry	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	N/A	N/A
Geologist	Reid A. Doherty	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	N/A	N/A

Table 3A Required Training and Licenses

Thomas L. Lammons, P.G. of Bunnell-Lammons Engineering, Inc. is responsible to ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: Bunnell-Lammons Engineering, Inc., Human Resources Department Files c/o Ms. Esther Lande.

It is understood that training records will be produced if requested by the SCDHEC.

The Following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory: Shealy Environmental Services, Inc.
Name of Lab Director: Neil Magee
SC DHEC Certification Number: 32010
Parameters this Lab will analyze for this project:

Groundwater

- BTEX, Naphthalene, MTBE, 1,2-DCA, and 8-Oxygenates by EPA Method 8260B
- EDB by EPA Method 8011

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

A9 Documents and Records

Personnel will receive the most current version of the QAPP Addendum via: (Check all that apply)

XXX US Mail ____ Courier **XXX** Hand delivered

Other (please specify): _____

Record	Produced By	Hardcopy/ Electronic	Storage Location For How Long?	Archival
Project Field Notes	BLE personnel	Hardcopy	BLE file library. Hard copy storage for a minimum of 3 years.	After 3 years, the project data may be scanned and transferred to CD. CDs and/or reports will be archived in BLEs file library for a minimum of 5 years.
Instrument Raw Data	Shealy Environmental Services, Inc.	Hardcopy and Electronic	Hardcopy: Offsite 7 years Electronic: External hard drive 10 years	Yes
Laboratory Analytical Data	Shealy Environmental Services, Inc.	Hardcopy & Electronic	Shealy will retain data on an external hard drive for 10 years. Data stored in BLE file library and electronic data storage backup. BLE hard copy storage for a minimum of 3 years.	After 3 years, the project data may be scanned and transferred to CD. CDs and/or reports will be archived in BLEs file library for a minimum of 5 years.
Final Report	BLE personnel	Hardcopy & Electronic	BLE file library and electronic data storage backup. Hard copy storage for a minimum of 3 years.	After 3 years, the project data may be scanned and transferred to CD. CDs and/or reports will be archived in BLEs file library for a minimum of 5 years.

Table 4A Record Identification, Storage, and Disposal

Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
QAPP Addendum Preparation/Approval	October 31, 2012	November 14, 2012	Date assumes two weeks for SCDHEC QAPP review.
Monitoring Well Sampling	November 26, 2012	November 27, 2012	Sample groundwater monitoring wells. See SOP Attachment A for groundwater sampling procedures.
Report Preparation, Review, and Submittal	December 17, 2012	January 11, 2012	Report preparation, review, and submittal dates are contingent on completion of all required project activities. Date may be subject to change.

Table 5A Sampling Activities

B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

***Estimate* the number of samples of each matrix that are expected to be collected:**

Soil	0
Ground Water from monitoring wells	19
From Drinking/Irrigation water wells	0
From Surface water features	0
Field Duplicates	1
Field Blanks	2
Trip Blanks	1
Total number of Water samples	23

The samples will be (check as many as apply): ____Homogenized ____Split

For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.

A Heron Little Dipper Water Level Indicator and/or a Solinst Interface Meter will be used to measure the depth-to-water and/or depth-to-product in the monitoring wells prior to sample collection. An Oakton Model 35630-62 Multi-Parameter Meter will be used to measure pH, specific conductivity, and temperature during the groundwater sampling event and a YSI 550A Dissolved Oxygen Meter will be used to measure dissolved oxygen levels in the groundwater. Additionally, a LaMotte Model 2020 Turbidimeter will be used to monitor turbidity during purging to ensure that the groundwater sample collected is representative of the formation.

Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?

Disposable sampling equipment (i.e tubing, bailers, latex gloves, etc.) will be utilized for collecting groundwater samples.

Groundwater monitoring well samples will be collected with disposable polyethylene bailers. A new bailer will be utilized for each sampling location. Monitoring well sampling procedures are provided in SOP Attachment A.

The Heron Little Dipper Water Level Indicator and/or Solinst Interface Meter will require cleaning and decontamination between each groundwater monitoring well sampling. The Oakton Model 35630-62 Multi-Parameter Meter and YSI 550A Dissolved Oxygen Meter will require cleaning and decontamination between measurements.

If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination.

Disposable sampling equipment (i.e. tubing, bailers, latex gloves, etc.) will be utilized for collecting groundwater samples, and will be properly disposed of after collection of each groundwater sample.

The Heron Little Dipper Water Level Indicator and/or Solinst Interface Meter will be cleaned and decontaminated by between each use. Decontamination procedures will consist of donning a new, clean pair of disposable gloves. A clean, lint free paper towel saturated with an alconox (or similar laboratory detergent)-potable water mix and a second paper towel saturated with distilled water will be used to wipe the water level tape as it is rewound onto the spool. Plastic will be placed underneath the meter to capture any rinse fluids. The water level indicator probe will be rinsed with an alconox-potable water mix, followed by a final rinse with distilled water. Used gloves and paper towels will be properly disposed of after decontamination procedures are complete.

The Oakton Model 35630-62 Multi-Parameter Meter, YSI 550A Dissolved Oxygen Meter, and LaMotte Model 2020 Turbidimeter will be cleaned and decontaminated between each measurement by first rinsing with an alconox-potable water mix. If the sampling equipment is severely contaminated, a soft disposable brush will be used. The alconox-potable water rinse will be followed by several rinses with de-ionized water prior to the next measurement. The glass cylinders of the LaMotte Model 2020 Turbidimeter will be wiped dry with a clean, lint free cloth following decontamination.

By-products of the cleaning and decontamination will be contained in a 55-gallon drum and transported off-site for disposal at a permitted facility.

Identify any equipment and support facilities needed. This may include such things as Fed-ex to ship the samples, a Geoprobe, field analysis done by another contractor (who must be certified), and electricity to run sampling equipment.

Equipment: Chevrolet 1500 support truck with power inverter capabilities

Soil/Water Disposal Contractor: VLS Recovery Services, LLC – 305 S. Main Street, Mauldin, SC 29662

Laboratory Courier: Shealy Environmental – 106 Vantage Point Drive, West Columbia, SC 29172

Address the actions to be taken when problems occur in the field, and the person responsible for taking corrective action and how the corrective action will be documented.

Failure	Response	Documentation	Individual Responsible
Property Access	Notify SCDHEC project manager of failure to receive property access.	Telephone record/ email correspondence to SCDHEC placed in project file.	Field Manager: Trevor J. Benton, P.G.
Monitoring Well Not Located or Well is Dry	Field personnel notify field manager of issue(s). Field manger will notify SCDHEC project manager of issue(s).	Field notes placed in project file. Telephone record/email (if applicable) to SCDHEC placed in project file.	Field Manager: Trevor J. Benton, P.G.
Heron Little Dipper Water Level Indicator Failure	Notify field manager of equipment failure. Clean indicator probe and replace batteries in the field. If problem persists, use backup water level indicator and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.
Oakton Model 35630-62 Multi-Parameter Meter Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.
YSI 550A Dissolved Oxygen Meter	Notify field manager of equipment failure. Replace membrane with spare, clean probe, and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.

LaMotte Model 2020 Turbidimeter Failure	Notify field manager of equipment failure. Replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup turbidimeter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.

Table 6A Field Corrective Action

B3 Sample Handling and Custody

1. ***How will the samples get from the Site to the Lab to ensure holding requirements are met?***

   By vehicle to BLE office; then vehicle pick-up by laboratory courier who delivers to lab location.

2. ***How will the contractors cool the samples and keep the samples cool?***

   Wet ice will be used in an appropriate sized cooler for storage of samples between project site and office. Once at office, samples will be maintained at appropriate temperatures in a refrigerator/freezer in a secured storage room located within the office.

3. ***How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?***

   A calibrated thermometer and temperature blank will be used to document sample temperature. The temperature blank is immediately checked by the sample receiving technician upon arrival at the laboratory.

4. ***Where will the samples be stored in the Lab once they are received?***

   All samples are stored in clean refrigeration units monitored and maintained at 4 degrees C + or – 2 degrees. Volatile organic samples are stored separately from all other samples.

5. ***Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.***

   A chain of custody (COC) will be filled out for each sampling event at the site. COC will be signed by Bunnell-Lammons Engineering, Inc. field staff and Shealy Environmental Services, Inc. lab staff at time physical transfer of samples occurs to courier. Shealy Environmental Services, Inc. uses the following COC procedures to protect sample integrity following pickup by their courier: A full time Sample Receiving Technician receives all samples and completes a Sample Receipt Checklist (SRC), which will identify any anomalies. If any anomalies exist, the Sample Receiving Technician or Project Manager must resolve the deviation internally and/or notify the client to resolve the anomaly. A copy of a standard Shealy Environmental Services, Inc. COC is included with SOP Attachment A.

B4 Analytical Methods

1. ***Identify the SOPs which will be used to analyze the samples, the method which the SOP references and the equipment or instrumentation that is needed:***

Parameter	SOP ID*	Method Referenced	Equipment	Comments
Specific Conductivity	See Standard Operating Procedures Attachment B for Oakton pH/Conductivity Series 10 Multi-Parameter Tester Calibration and Operation Procedures	Manufacturer Product Manual/Specifications	Oakton Model 35630-62 Multi-Parameter Meter	None
pH	See Standard Operating Procedures Attachment B for Oakton pH/Conductivity Series 10 Multi-Parameter Tester Calibration and Operation Procedures	Manufacturer Product Manual/Specifications	Oakton Model 35630-62 Multi-Parameter Meter	None
Temperature	See Standard Operating Procedures Attachment B for Oakton pH/Conductivity Series 10 Multi-Parameter Tester Calibration and Operation Procedures	Manufacturer Product Manual/Specifications	Oakton Model 35630-62 Multi-Parameter Meter	None
Dissolved Oxygen	See Standard Operating Procedures Attachment C for YSI 550A Dissolved Oxygen Instrument Calibration, Maintenance, and Operation Procedures	Manufacturer Product Manual/Specifications	YSI 550A Dissolved Oxygen Meter	None
Turbidity	See Attachment D Standard Operating Procedures for LaMotte Model 2020 Turbidimeter Instrument Analysis	Manufacturer Product Manual/Specifications	LaMotte Model 2020 Turbidimeter	None
BTEX+Naphthalene+ MTBE+8 Oxygenates	S-VO-002	8260B	GC/MS	None
EDB	S-SV-012	8011	GC	None

Table 7A Analytical SOPs and Referenced Methods

- **This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.**

Abbreviation	Identification of this SOP	Full Name of the SOP
SOP Attachment A	SOP Attachment A	Monitoring Well Purging and Sampling Procedures
SOP Attachment B	SOP Attachment B	Oakton pH/Conductivity Series 10 Multi-Parameter Tester Calibration and Operation Procedures
SOP Attachment C	SOP Attachment C	YSI 550A Dissolved Oxygen Instrument Calibration, Maintenance, and Operation Procedures
SOP Attachment D	SOP Attachment D	LaMotte Model 2020 Turbidimeter Calibration and Operation Procedures
S-VO-002	S-VO-002	GC/MS Volatiles Analysis Based on EPA Methods 8260B and 624 Prepared by EPA Methods 5030B, 5035 and 3585
S-SV-012	S-SV-012	GC/ECD Analysis of EDB and DBCP Based on Method 8011 & 504.1

Table 8A SOP Abbreviation Key

2. Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Failure	Response	Documented Where?	Individual Responsible
COC or Sample Receiving Issues	Call Client	Sample Receiving Checklist (SRC)	PM – Lucas Odom lodom@shealylab.com
Analytical Errors	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Neil Magee nmagee@shealylab.com
QA/QC Failure	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Neil Magee nmagee@shealylab.com QA/QC Office – Jami Savje jsavje@shealylab.com
On Time Delivery	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Neil Magee nmagee@shealylab.com QA/QC Office – Jami Savje jsavje@shealylab.com
Specific Conductivity Reading Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Include a narrative of problem in field notes	*Field Staff:* Ivan A. Irizarry *Field Manager:* Trevor J. Benton, P.G. trevor@blecorp.com
pH Reading Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Include a narrative of problem in field notes	*Field Staff:* Ivan A. Irizarry *Field Manager:* Trevor J. Benton, P.G. trevor@blecorp.com
Temperature Reading Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Include a narrative of problem in field notes	*Field Staff:* Ivan A. Irizarry *Field Manager:* Trevor J. Benton, P.G. trevor@blecorp.com
Dissolved Oxygen Reading Failure	Notify field manager of equipment failure. Replace membrane with spare, clean probe, and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Include a narrative of problem in field notes	*Field Staff:* Ivan A. Irizarry *Field Manager:* Trevor J. Benton, P.G. trevor@blecorp.com
Turbidimeter Reading Failure	Notify field manager of equipment failure. Replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup turbidimeter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Include a narrative of problem in field notes	*Field Staff:* Ivan A. Irizarry *Field Manager:* Trevor J. Benton, P.G. trevor@blecorp.com

Table 9A Corrective Action Procedures

3. **Identify sample disposal procedures.**

Analysis	Matrix	Schedule for disposal	Method for disposal	Comments
BTEX+Naphthalene+MTBE+ 1,2-DCA+8 Oxygenates	Water	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	None
EDB	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	None

Table 10A Sample Disposal

4. **Provide SOPs for the Kerr Method or the Ferrous Iron Method if these are parameters for this study. This can be attached or written here. If attached please note that it is an attachment and where it is located (if applicable).**

   Not Applicable for this scope of work.

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP.

B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. **Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Note the availability and location of spare parts.**

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person Responsible
Heron Little Dipper Water Level Indicator	18816	Indicator probe cleaning (in accordance with Section B2) and battery monitoring	Daily	Replacement probe/battery – available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry
Solinst Interface Meter - Model 122	122 007909-1	Indicator probe cleaning (in accordance with Section B2)	Daily	Replacement probe – available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry
Oakton 35630-62 Multi-Parameter Meter (pH, specific conductivity, and temperature)	324976	Probe cleaning and calibration in accordance with SOP Attachment B	Weekly	Replacement parts available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person Responsible
YSI 550A Dissolved Oxygen Meter	06A1121AC	Probe cleaning and membrane replacement in accordance with SOP Attachment C	Cleaning – daily Membrane replacement - monthly	Cleaning supplies and additional membranes and salt solution - available at Pine Environmental Services, Inc. in Lilburn, GA	Ivan Irizarry
LaMotte Model 2020 Turbidimeter	3164-1602	Cleaning and calibration	Daily	Lint-free cloth and turbidity standards available at Pine Environmental Services, Inc. in Lilburn, GA	Ivan Irizarry
Volatiles Mass Spec	ALL	Change traps, clean ion source, replace filaments	Periodic	Laboratory	MSV Analyst
ECD GC	ALL	Injection port maintenance, column replacement	Periodic	Laboratory	GC Analyst

Table 11A Instrument and Equipment Maintenance

2. **Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this.**

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
Heron Little Dipper Water Level Indicator 18816	Inspect probe/tape condition and battery output	Inspect probe and tape for continuity. Test probe with conductive water to ensure meter is properly working	Ivan Irizarry	Clean/replace probe or tape as necessary
Solinst Interface Meter - Model 122 122 007909-1	Inspect probe/tape condition and battery output	Inspect probe and tape for continuity. Test probe with conductive water to ensure meter is properly working	Ivan Irizarry	Clean/replace probe or tape as necessary
Oakton 35630-62 Multi-Parameter Meter 324976	Inspect probe condition and verify output reading accuracy	Inspect probe for cracks or breaks. Inspect for residue on probe tips. Compare output readings to known standards.	Ivan Irizarry	Clean/replace probe. Calibrate instrument if output readings do not match standard values
YSI 55 Dissolved Oxygen Meter 06A1121AC	Inspect probe/membrane condition.	Inspect probe for cracks or breaks. Verify that probe membrane is filled with salt (KCl) solution. Inspect for residue on probe tips. Compare output readings to known standards.	Ivan Irizarry	Clean/replace probe. Replace membrane. Calibrate instrument if output readings do not match standard values
LaMotte Model 2020 Turbidimeter 3164-1602	Inspect meter condition and verify output reading accuracy	Inspect glass cylinders for cracks or scratches that may interfere with proper turbidity measurements. Compare output readings to known standards.	Ivan Irizarry	Clean/replace glass cylinders. Calibrate instrument if output readings do not match standard values.

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
Volatiles Mass Spec	Daily calibration check	Method Requirements	MSV Analyst	Recalibration or instrument maintenance
ECD GC	Daily calibration check	Method Requirements	GC Analyst	Recalibration or instrument maintenance

Table 12A Instrument and Equipment Inspection

B7 Instrument Calibration and Frequency

1. **Identify equipment, tools, and instruments for field or lab work that should be calibrated and the frequency.**
2. **Describe how the calibrations should be performed and documented, indicating test criteria and standards or certified equipment.**
3. **Identify how deficiencies should be resolved and documented. Identify the person responsible for corrective action.**

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Oakton 35630-62 Multi-Parameter Meter	Four point conductivity calibration; three point pH calibration; temperature verification	Daily	pH: Output value within ±1.00 pH unit of buffer Conductivity: Output value with 20% of calibration range at standard temperature.	Recalibrate equipment. If calibrations will not hold then replace unit.	Ivan Irizarry	SOP Attachment B *Oakton pH/Conductivity Series 10 Multi-Parameter Tester Calibration Procedures*
YSI 55 Dissolved Oxygen Meter	% Saturation	Daily	Output value within 1 mg/L of calibration solution.	Recalibrate equipment or replace membrane.	Ivan Irizarry	SOP Attachment C *YSI 550A Dissolved Oxygen Instrument Calibration and Maintenance Procedures*
LaMotte Model 2020 Turbidimeter	AMCO Turbidity Standard (1.0 NTU, 10 NTU, 100 NTU, or 250 NTU) in the expected turbidity range of the samples to be tested	Daily or as needed during sampling	Output value within 0.1 NTU for measured turbidity values less than 10 NTU, and 1 NTU for measured turbidity values greater than 10 NTU.	Recalibrate equipment. If calibration will not hold then replace unit.	Ivan Irizarry	SOP Attachment D *LaMotte Model 2020 Turbidimeter Calibration and Operation Procedures*
Heron little dipper water level indicator	Calibrate against an invar steel surveyor's chain or steel tape	Monthly	Within 0.01 foot per 10 feet length	Replace water level meter tape	Ivan Irizarry	See Master QAPP

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Solinst Interface Meter – Model 122	Calibrate against an invar steel surveyor's chain or steel tape	Monthly	Within 0.01 foot per 10 feet length	Replace water level meter tape	Ivan Irizarry	See Master QAPP
Volatiles Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by continuous calibration verification standard	Method Criteria	Detailed in Laboratory SOP	MSV Analyst	S-VO-002
GC ECD	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in Laboratory SOP	GC Analyst	S-SV-012

Table 13A Instrument Calibration Criteria and Corrective Action

*** This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.**

B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. **Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.**
2. **Identify the individual(s) responsible for this.**

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking
Leather work gloves	Grainger	New or in good condition (if previously used) with no tears	Store away from direct sunlight in work vehicle	Ivan Irizarry
Latex gloves	Eon Products	New material	Store in clean supply room located at BLE office	Ivan Irizarry
36-inch weighted polyethylene bailer	Eon Products	New material	Store in clean supply room located at BLE office	Ivan Irizarry
Five-gallon polyethylene bucket	Lowes	New or in good condition (if previously used) with no cracks or holes	Store in clean supply room located at BLE office	Ivan Irizarry
Nylon twine	Grainger/Lowes	New material	Store in clean supply room located at BLE office	Ivan Irizarry

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking
Laboratory Chemicals	Fisher, VWR	Certificates of analysis and laboratory testing	Laboratory storage	Receiving and laboratory personnel
Laboratory standards	O2Si, Restek, High Purity, VHG, Supelco	Certificates of analysis and laboratory verifications	Vendor specific storage conditions	Laboratory Analysts
Sample Containers	Daniels Scientific, QEC	Certificates of analysis and laboratory testing	Bottle storage area	Sample receiving personnel
15 lb bags of ice	Convenience store	Pre-package bag of wet ice	Store in laboratory provided coolers	Ivan Irizarry
55-gallon steel open-head drums	Dependable Drum Co.	New or reconditioned. Drums with holes or cracks will not be accepted	Storage at BLE lay-down yard until transported to site. At the site, drums will be filled and staged in a safe location. Drums will be moved around the site with a 1,000-lb capacity drum dolly.	Ivan Irizarry
Non-hazardous waste labels (vinyl)	Grainger	New material	Store in clean supply room located at BLE office	Ivan Irizarry

Table 14A List of Consumables and Acceptance Criteria

B9 Data Acquisition Requirements (Non-Direct Measurements)

1. **Identify data sources, for example, computer databases or literature files, or models that should be accessed or used.**
2. **Describe the intended use of this information and the rationale for their selection, i.e., its relevance to project.**
3. **Indicate the acceptance criteria for these data sources and/or models.**

Data Source	Used for	Justification for use in this project	Comments
Report of Groundwater Sampling Event – November 2011, prepared by BLE, dated January 16, 2012	Identifying locations of the existing groundwater monitoring wells at the site and obtaining historical analytical results.	Site plan and data tables utilized for determining location of wells, well depths, and historical analytical results.	None

Table 15A Non-Direct Measurements

4. **Identify key resources/support facilities needed.**

Not applicable to this scope of work.

B10 Data Management

1. Describe the data management scheme from field to final use and storage.

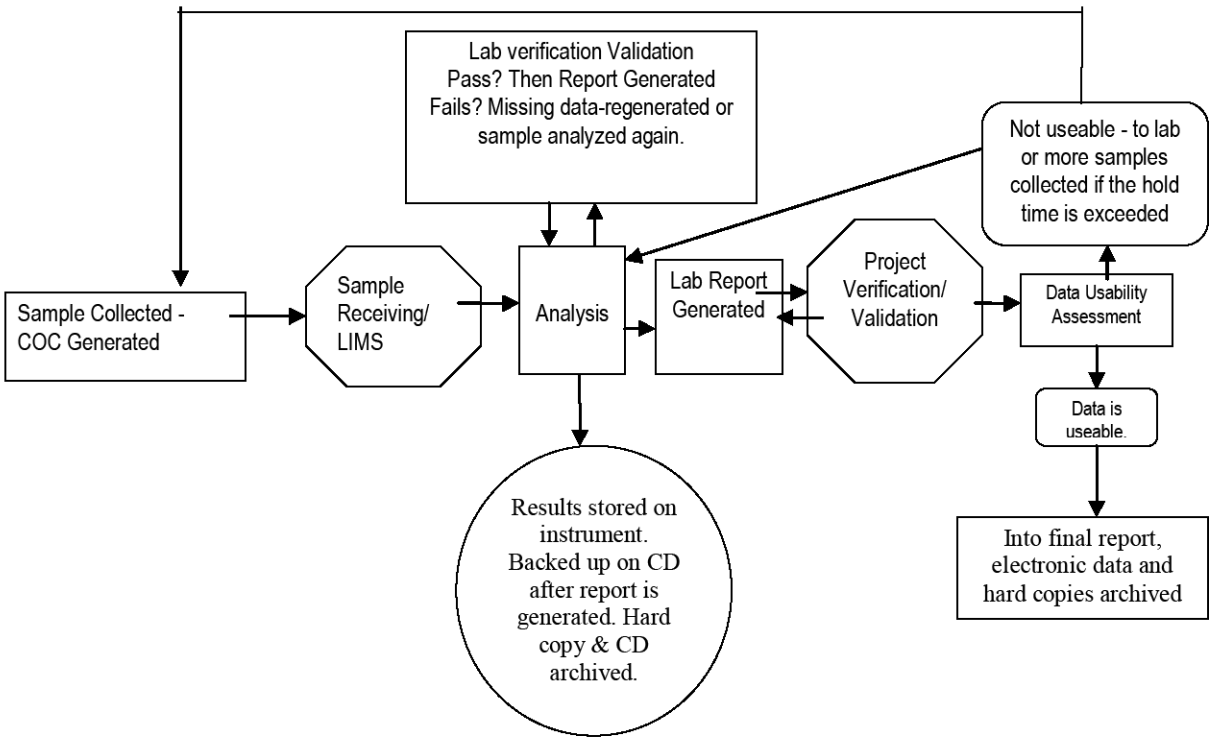


Figure 2 Example of a Data Management Scheme

2. How does the lab and field staff ensure that no unauthorized changes are made to the chain of custody, sampling notebooks, laboratory notebooks and computer records?

The chain of custody has an attached carbon copy, in which the field staff keeps one copy after the laboratory picks up samples. This original is used to determine if any changes are made to the COC after laboratory receipt. All COCs are reviewed by the laboratory during receipt of samples and submittal of final report. Looking for inappropriate changes to the COC is in the scope of both laboratory reviews. The Quality Assurance/Quality Control Department oversees adherence to and review of these programs.

Field notes and logs will be stored in hardback bound field books and/or on standard 8 ½" x 11" field data sheets. Field data sheets are signed by field staff upon completion of daily work.

Copies of field notes and sampling logs are reviewed by the Field Manager and placed in the project file. Additionally, field notes/logs are scanned, password secured, and placed into the digital project file. Original data sheets will also be kept by the field staff in field notebooks/folders for a minimum of three years.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted.

The use of a Laboratory Information Management System (LIMS) is employed. The LIMS database is reviewed daily by laboratory management. Furthermore, the database is backed up daily to prevent the loss

of data in the event of a system malfunction. Documentation of these procedures is provided in laboratory SOP S-AD-003, LIMS.

4. How will the data be archived once the report is produced? How can it be retrieved? (This applies to both electronic and hard copies).

The laboratory QA/QC department maintains and archives hardcopy data offsite. Electronic data is maintained and archived by the laboratory IT systems manager.

The final analytical data from Shealy Environmental Services, Inc. will be kept by the laboratory for a minimum of seven years. A hard copy of the data will be stored at an off-site facility and a digital copy will be saved on a backed-up computer server.

Hard copies of BLE's final reports are contained in the specific project folder in BLE's file library. Additionally, each report is converted to digital format and stored in its applicable digital file folder. Hard copy storage will be for a minimum of three years. Digital storage will be for a minimum of five years. Digital data is backed-up on a weekly basis on a four month rolling schedule. For security purposes, current week's data is stored at an off-site location. Additionally, data is backed-up and stored for a minimum of five years at an off-site location on a biannual basis.

Section C – Assessment and Oversight

C1 Assessment and Response Actions

1. ***The Contractor is supposed to observe field personnel daily during sampling activities to ensure samples are collected and handled properly and report problems to DHEC within 24 hours. Please state who is responsible for doing this and what observations will be made. Will this person have the authority to stop work if severe problems are seen?***

   Internal field audits will be performed on a daily basis by Trevor Benton, P.G. of Bunnell-Lammons Engineering, Inc. If any significant problems or deviations from the QAPP are noted, work may be stopped to resolve the issues. The SCDHEC project manager will be notified of the issues within 24 hours of the occurrence.

2. ***The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?***

   The laboratory submits annual Proficiency Testing (PT) samples to Wibby Environmental. Wibby is an approved vendor that submits PT results to the office of environmental laboratory certification. The laboratory director has the authority to stop work and submit Corrective Actions if problems are severe.

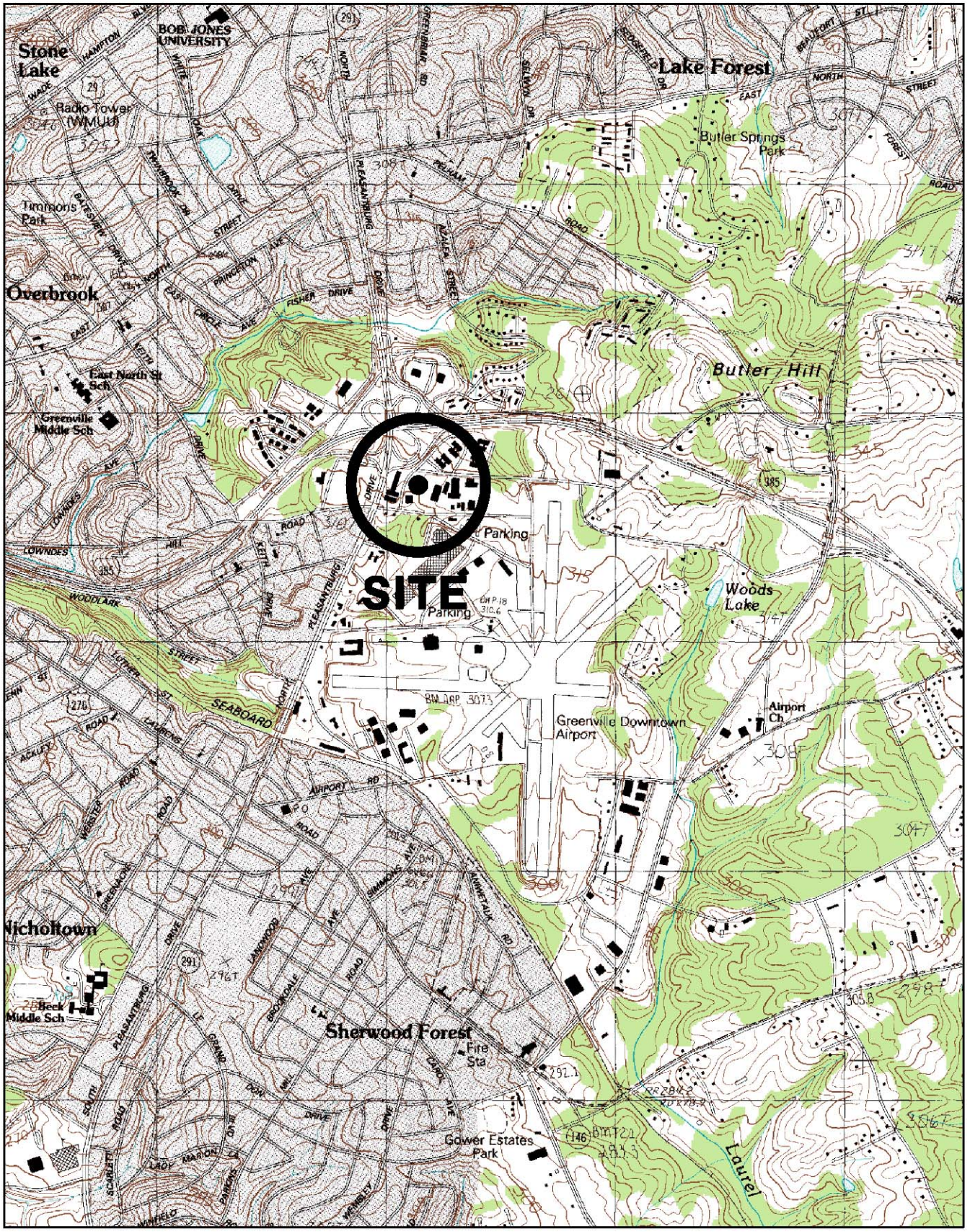
C2 Reports to Management

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

Section D Data Validation and Usability

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
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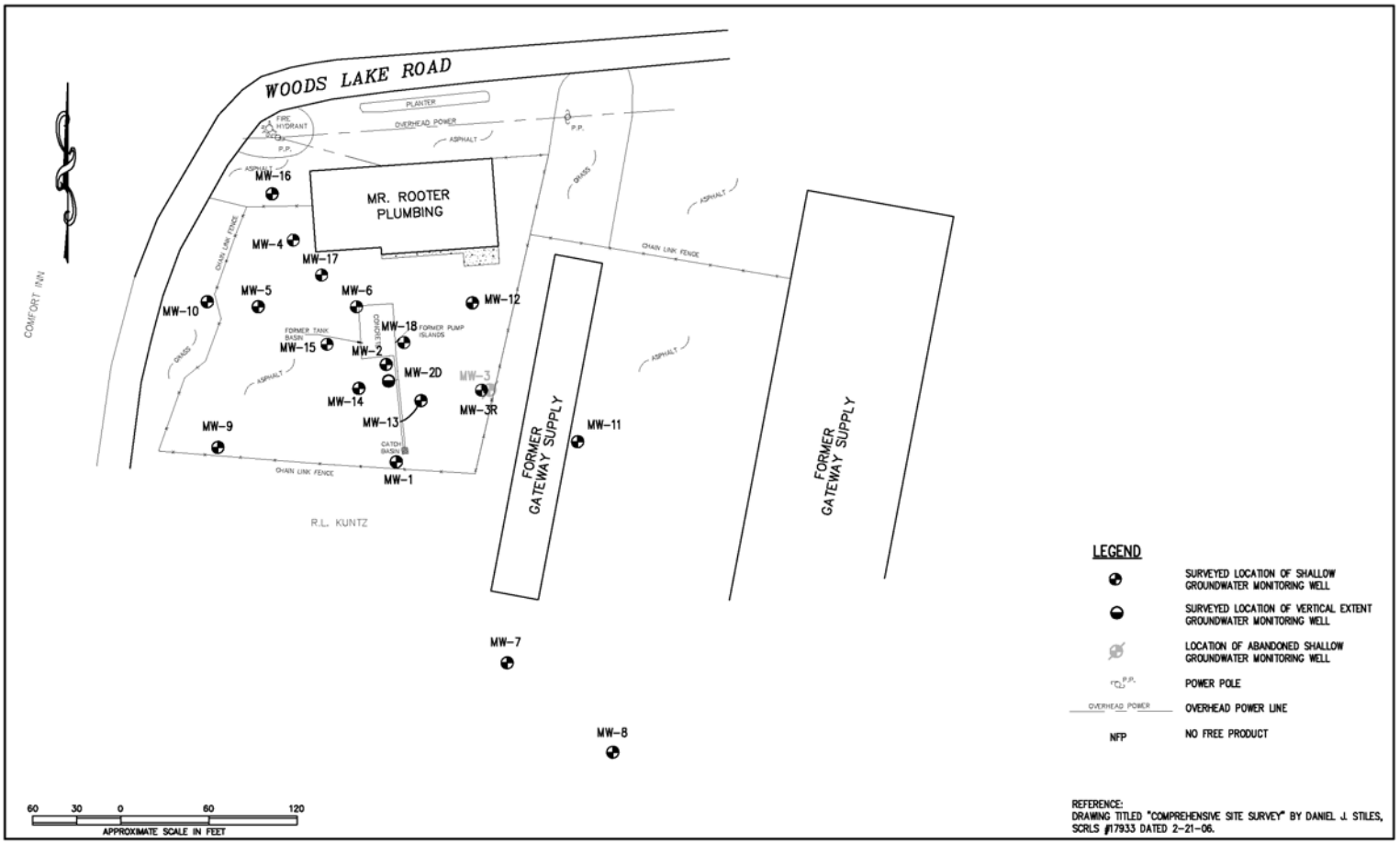
DRAWN: ACE	DATE: 09-19-12	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1285 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-19SLM		FIGURE 1
APPROVED:	JOB NO: J12-1010-19		



REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	09-19-12
CHECKED BY:	IAI	FILE:	FORMERRTT-19FPTM
APPROVED BY:		JOB NO:	J12-1010-19

REVISIONS		
No.	DESCRIPTION	BY

BUSNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1255 FAX: (864)288-4430

SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE
2

STANDARD OPERATING PROCEDURES AND FORMS

ATTACHMENT A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells will be purged prior to sample collection to remove any stagnant water from the well so that the samples collected are representative of the groundwater quality in the vicinity of the well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature are measured periodically during well evacuation using instruments which were calibrated accordingly. Wells that are evacuated to dryness with less than three well volumes being removed will be sampled as soon as the well has recovered enough to yield sufficient volume for a sample.

The monitoring well will be purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused nylon cord. The well will also be sampled using a bailer as described above.

Samples will be placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples will be maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in West Columbia, South Carolina via courier service for analysis.

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

SHEALY

Chain of Custody Record

Number 02112

Client	Report to Contact	Sampler (Printed Name)	Quote No.
Address	Telephone No. / Fax No. / Email	Waybill No.	Page ___ of ___
City / State / Zip Code	Preservative: 1. Unpres. 4. HNO3 7. NaOH; 2. NaOH/ZnA 5. HCL; 3. H2SO4 6. Na Thio.		Number of Containers
Project Name			Bottle (See Instructions on back)
			Preservative
Project Number	P.O Number		Lot No.

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis												Remarks / Cooler ID

Turn Around Time Required (Prior lab approval required for expedited TAT)
☐ Standard ☐ Rush (Please Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

1. Relinquished by / Sampler	Date	Time	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory Received by	Date	Time

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) ☐ Yes ☐ No ☐ Ice Pack
Receipt Temp. _____ °C
Temp. Blank ☐ Y / ☐ N

BLE

ATTACHMENT B

OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES

The Oakton pH/conductivity multi-parameter series 10 tester requires a set of three calibrations for each of its output components. The three calibrations required for the meter are temperature, pH, and specific conductivity. The temperature calibration is based on comparing the meter based temperature reading to an appropriately calibrated thermometer. The pH calibration is based on a multi-point calibration utilizing three different buffers (pH 4, pH 7, and pH 10). The conductivity calibration is based on a four point calibration setup utilizing a set of predefined conductivity range solutions. The procedures to perform the three different calibrations are as follow.

Temperature Calibration

The built-in temperature sensor included in the probe is factory calibrated. The temperature sensor is calibrated only if temperature errors are suspected or if the probe is replaced. Temperature calibration procedures are as follows:

1. Power on the meter and select the pH mode.

2. Pres the Cal/measure key to enter calibration monde, the CAL indicator will appear above the primary display.

3. While in pH calibration mode, press the MODE key to enter temperature calibration mode. The primary display shows the temperature reading with zero offset and the secondary display shows you what the temperature value was initially.

4. The probe is dipped into a temperature bath and its allowed sufficient time for the meter's temperature reading to stabilize.

5. Once stabilized the temperature is set in to the meter using the up and down keys to match the temperature bath. The word Con appears on the screen indicating that calibration is complete.

Note:
Since temperature readings affect the accuracy of the pH and conductivity measurements, pH and conductivity calibration are performed following the completion of the temperature calibration is.

pH Calibration

The instrument is capable of performing three point calibrations for pH. Though the three points are not essential for calibration, for our purposes we shall perform a three point pH calibration. The calibrations are performed by using standard pH buffers of 4.00, 7.00 and 10.00.

1. Select pH mode

2. Rinse the probe with DI water or rinse solution.

OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES - CONTINUED

3. Dip the probe into the calibration buffer and stir the buffer. Press CAL/MEAS to enter the pH calibration mode. The primary display will show the measured reading while the smaller secondary display will indicate the pH standard buffer solution.

4. Wait for the measured pH value to stabilize. The READY indicator will display when the reading stabilizes.

5. After the reading has stabilized and the READY indicator is displayed, press ENTER to confirm the calibration. A confirming indicator (CON) flashes and disappears. The meter is now calibrated to the buffer indicated in the secondary display.

The secondary display automatically scrolls to the next buffer calibration option if you are performing multi-point calibration, go to

6. Press the up or down keys to select the next buffer value you want to calibrate (pH 4.00, 7.00 or 10.00).

7. Repeat steps 1 through 6.

8. When calibration is complete, press CAL/MEAS to return to pH measurement mode.

NOTE:
If the selected buffer value is not within ±1.00 pH from the measured pH value: The electrode and buffer icon blink and the ERR enunciator appears in the lower left corner of the display. These indicators also flash if the buffer used is not the same as the buffer value on the secondary display.

Conductivity Calibration

The series 10 pH/conductivity meter has four different conductivity measuring ranges. You can calibrate one point in each of the measuring ranges (up to four points). If you are measuring values in more than one range, each of the ranges must be calibrated. The following table lists the corresponding conductivity range. You should calibrate each range using a solution that falls between the values in the "recommended calibration solution range" column.

Conductivity Range Calibration Solution Range:

0.00 µS	19.99 µS	6.00 µS	17.0 µS
0.00 µS	199.9 µS	60.0 µS	170 µS
0.00 µS	1999 µS	600 µS	1700 µS
0.00 mS	19.99 mS	6.00 mS	17.00 mS

Note: Minimum calibration value should be 20% of full scale for the specific range (e.g.: the **LOWEST** calibration value for the range of 0.00 to 19.99 µS is 4.00 µS). When the meter is recalibrated, old calibrations are replaced on a range basis.

OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES - CONTINUED

Conductivity calibration procedures are as follows:

1. Pour out two separate portions of the selected calibration standard and one of DI water into separate clean containers.

2. Select the conductivity mode on the meter.

3. Rinse the probe with DI water, and then rinse the probe in one portion of the calibration standard. Submerge the probe into the second portion of the calibration standard. The meter auto ranging function selects the appropriate conductivity range (four ranges are possible). Be sure the probe is free from air bubbles and sufficient calibration standard is used to cover the conductivity sensor. Wait for the reading to stabilize. Once the readings have stabilized, the READY indicator should appear in the upper left hand corner.

4. Press the CAL/MEAS key. The CAL indicator appears above the primary display. The primary display shows the measured reading and the secondary display shows the temperature.

5. Use the up and down keys to match the reading to the solution standard.

6. Press the ENTER key to confirm calibration. Upon confirmation, the CON indicator appears briefly. The meter automatically switches back into Measurement mode. The display now shows the calibrated, temperature compensated conductivity value.

7. For calibration in other ranges (maximum: four ranges) repeat steps 1 through 6 with the appropriate calibration standards.

Meter Operation

The READY indicator appears on the display when the meter has stabilized. It will turn off if the readings start to fluctuate.

To take measurements:

1. Rinse the probe with DI water before use to remove any impurities adhering to the probebody. If the pH electrode has dehydrated, soak it for 30 minutes in tap water.

2. Switch on the meter. The MEAS annunciator appears on the top center of the LCD. The ATC indicator appears in the lower right hand corner to indicate Automatic Temperature Compensation.

3. Dip the probe into the sample. Allow time for the readings to stabilize. Note the readings on the display. When the readings are stable, the READY annunciator appears.

   NOTE: Conductivity readings are auto-ranging and will automatically move to the correct range (four ranges possible).

OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES - CONTINUED

4. To toggle between pH and conductivity readings, press the MODE key.

   NOTE: When measuring a sample, make sure that the probe is immersed beyond the electrode band. Stir the sample using the probe gently to create a homogenous sample.

BLE

ATTACHMENT C

YSI 550A DISSOLVED OXYGEN INSTRUMENT CALIBRATION, MAINTENANCE, AND OPERATION PROCEDURES

INSTRUMENT CALIBRATION

Dissolved oxygen calibration must be done in an environment with known oxygen content. The YSI 550A DO Instrument can be calibrated in either mg/L or % saturation. BLE's preference is utilizing the % saturation method. Calibration instructions are described below:

1. Ensure that the sponge inside the instrument's calibration chamber is moist. Insert the probe into the calibration chamber.

2. Power the instrument on and allow readings to stabilize. This may take 5 to 15 minutes, depending on the age of the instrument and condition of the probe.

3. Press and release both the **UP ARROW** and **DOWN ARROW** keys at the same time to enter the calibration menu.

4. Press the **Mode** key until "%" is displayed on the right side of the screen for oxygen units. Press **ENTER**.

5. The LCD will prompt you to enter the local altitude in hundreds of feet. Use the arrow keys to increase or decrease the altitude. When the proper altitude appears on the LCD, press the **ENTER** key.

6. **CAL** will now display in the lower left corner of the screen, the calibration value in the lower right corner and the current DO reading (before calibration) will be the main display. Once the current DO reading is stable, press the **ENTER** button.

7. The LCD will prompt you to enter the approximate salinity of the water you are about to analyze. You can enter any number from 0 to 70 parts per thousand (PPT) of salinity. Use the arrow keys to increase or decrease the salinity setting. When the correct salinity appears on the LCD, press the **ENTER** key. The instrument will return to normal operation.

Upon completion of % saturation calibration, dissolved oxygen values can be compared to a known oxygen content for verification. Typically a 0.0 mg/L dissolved oxygen solution is utilized for this verification step.

MEMBRANE MAINTENANCE

A thin semi-permeable membrane, stretched over the sensor, isolates the electrodes from the environment, while allowing gases to enter. When a polarizing voltage is applied to the sensor electrodes oxygen that has passed through the membrane reacts at the cathode causing a current to flow. The membrane passes oxygen at a rate proportional to the pressure difference across it. Since oxygen is rapidly consumed at the cathode, it can be assumed that the oxygen pressure inside the membrane is zero. Hence, the force causing the oxygen to diffuse through the membrane is proportional to the partial pressure of oxygen outside the membrane. As the oxygen partial pressure varies, so does the oxygen diffusion through the membrane. This causes the probe current to change proportionally. Additional membrane changes will be required

over time. The average replacement interval is 4 to 8 weeks, although they may last longer if kept clean. To clean the membrane, a Kimwipe, and rubbing alcohol will be used to gently remove the contamination. Membranes will be replaced as necessary. Membrane replacement procedures are described below:

1. Remove the probe sensor guard to access the probe tip.
2. Unscrew and remove the old membrane cap and discard.
3. Thoroughly rinse the sensor tip with distilled or DI water.
4. Fill a new membrane cap with O2 probe solution that has been prepared according to the directions on the bottle. Be very careful not to touch the membrane surface. Lightly tap the side of the membrane cap to release bubbles that may be trapped.
5. Thread the membrane cap onto the probe. It is normal for a small amount of electrolyte to overflow.
6. Replace the probe sensor guard.

METER OPERATION

It is important to recognize that a very small amount of oxygen dissolved in the sample is consumed during probe operation. It is therefore essential that the sample be continuously stirred at the sensor tip. If stagnation occurs, measurements will appear artificially low. Stirring may be accomplished by mechanically moving the sample around the probe tip, or by moving the probe through the sample. The YSI Model 550A has a flow dependence of <25%. The rate of stirring required is 1/2 foot per second (16cm per second). Measurement procedures are as follows:

1. Insert the probe into the sample to be measured.
2. Continuously stir or move the probe through the sample.
3. Allow temperature and dissolved oxygen readings to stabilize.
4. Observe/Record readings.
5. Rinse the probe with clean water after each use and return probe to the calibration/storage chamber.
6. If unstable readings or membrane damage occurs, replace both the membrane cap and electrolyte solution.

ATTACHMENT D

LAMOTTE MODEL 2020 TURBIDIMETER CALIBRATION AND OPERATION PROCEDURES

The LaMotte Model 2020 Turbidimeter is a portable, microprocessor controlled nephelometer (suspended colloid meter). The LaMotte Model 2020 measures the scattering of a beam of light as it passes through a water sample in order to produce an average reading of nephelometric turbidity units (NTU). All readings are determined by the process of signal averaging over a 5 second period, minimizing fluctuations in readings attributed to large particles and enabling rapid, repeatable measurements. The microprocessor enables auto-ranging over the full range of 0 to 1,100 NTU and provides direct digital readout with a resolution of 0.01 NTU for the lowest range.

INSTRUMENT CALIBRATION

- Select a LaMotte AMCO 2020 Turbidity Standard (1.0 NTU, 10 NTU, 100 NTU, or 250 NTU) in the expected turbidity range of the samples to be tested. Wipe the outside of the standard tube with a clean, lint-free cloth.

- Open the lid of the meter. Align the indexing arrow mark on the tube with the indexing arrow mark on the meter, and insert the tube into the analysis chamber. Close the lid.

- Push the CAL button. While the display is flashing, adjust the display up or down using the arrow buttons until the value of the standard is displayed.

- Push the CAL button again to memorize the calibration. The display will stop flashing when the calibration is complete.

INSTRUMENT OPERATION

- Fill a clean sample tube with 50 ml of sample water and replace cap. Set sample aside to equilibrate with the air temperature and allow gases to escape.

- Rinse and empty a sample tube with a portion of the water sample and shake out excess water.

- Fill the sample tube to the neck by carefully pouring the temperature equilibrated sample down the side of the tube to avoid creating bubbles.

- Cap the tube and wipe dry with a clean, lint-free cloth.

- Open the meter lid, align the indexing arrow on the tube with the indexing arrow on the meter. Insert the tube into the meter chamber.

- Close the lid to the meter. Push READ button. The turbidity in NTU units will be displayed within 5 seconds.

- The meter will automatically turn off after 2 minutes after the last button is pressed. To turn off the meter manually, hold the READ button down for more than 1 second. Release the button when OFF is displayed.

ASSESSMENT COMPONENT COST AGREEMENT

D H E C

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South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account

Facility Name: Former Ryder Terminal

UST Permit #: 11929 **Cost Agreement #**

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan***					
B. Tax Map		x	$50.00		$0.00
C. Tier II or Comp. Plan /QAPP Appendix B	1	x	$525.00		$525.00
2. **Receptor Survey ***		x	$500.00		$0.00
3. **Survey (500 x 500 feet)**					
A. Comprehensive Survey		x	$1,000.00		$0.00
B. Subsurface Geophysical Survey					
1. < 10 meters below grade		x	$2,750.00		$0.00
2. > 10 meters below grade		x	$3,250.00		$0.00
C. Geophysical UST or Drum Survey		x	$1,125.00		$0.00
4. **Mob/Demob (Each)**					
A. Equipment		x	$575.00		$0.00
B. Personnel	2	x	$290.00		$580.00
C. Adverse Terrain Vehicle to install wells		x	$575.00		$0.00
5. **Soil Borings (hand auger)* (Feet)**		feet x	$14.00		$0.00
6. **Soil Borings (drilled) & Field Screening ***					
Rate includes collection of water sample or soil sample, and lab or other analyses					
A. Standard		feet x	$17.00		$0.00
C. Fractured Rock		feet x	$27.50		$0.00
7. **Soil Leachability Model (Each)**		each x	$200.00		$0.00
8. **Abandonment* (per foot)**					
A. 2" diameter or less		feet x	$5.00		$0.00
B. Greater than 2" to 6" diameter		feet x	$5.50		$0.00
C. Dug/Bored well (up to 6 foot diameter)		feet x	$18.00		$0.00
9. **Well Installation* (per foot)**					
A. Water Table (hand augered)		feet x	$20.00		$0.00
B. Water Table (drill rig)		feet x	$38.00		$0.00
C. Telescoping/ Pit Cased		feet x	$58.00		$0.00
D. Rock Drilling		feet x	$58.00		$0.00
E. 2" Rock Coring		feet x	$45.00		$0.00
G. Rock Multi-sampling ports/screens		feet x	$47.20		$0.00
H. Recovery Well (4 inch diameter)		each x	$45.00		$0.00
I. Pushed Pre-packed screen (1.25 diameter)		each x	$18.50		$0.00
J. Rotosonic (2 inch diameter)		each x	$45.00		$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**					
A. Groundwater Purge	19	wells x	$55.00		$1,045.00
B. Air or Vapors		samples x	$90.00		$0.00
C. Water Supply		samples x	$30.00		$0.00
D. Groundwater No Purge or Duplicate	1	samples x	$35.00		$35.00
E. Gauge Well only		per well x	$20.00		$0.00
F. Sample Below Product		wells x	$50.00		$0.00
G. Pasive Diffusion Bag		each x	$40.00		$0.00
H. Field Blank	2	each x	$5.00		$10.00

11. Laboratory Analyses-Groundwater (Each Sample)					
A1. BTEX+Naphth.+ Oxyg's+ 1,2 DCA + Ethanol	23	samples x	$100.00		$2,300.00
AA. Lead, Filtered		samples x	$46.00		$0.00
B1. Rush EPA Method 8260B (All of item A.)		samples x	$143.00		$0.00
C1. Trimethal, Butyl, and Isopropyl Benzenes		samples x	$40.00		$0.00
D. PAH's		samples x	$120.00		$0.00
E. Lead, Unfiltered		samples x	$20.00		$0.00
F. EDB by EPA 8011 (1 field dup, 2 field blanks, 1 trip blank)	23	samples x	$55.00		$1,265.00
FF. EDB by EPA Method 8011 Rush		samples x	$75.00		$0.00
G. 8 RCRA Metals		samples x	$140.00		$0.00
H. TPH (9070)		samples x	$55.00		$0.00
I. pH		samples x	$10.00		$0.00
J. BOD		samples x	$40.00		$0.00
P1. Ethanol		samples x	$21.50		$0.00
11. **Analyses-Soil (Each Sample)**					
Q. BTEX + Naphth.		samples x	$100.00		$0.00
R. PAH's		samples x	$120.00		$0.00
S. 8 RCRA Metals		samples x	$150.00		$0.00
T. Oil & Grease (9071)		samples x	$60.00		$0.00
U. TPH-DRO (3550B/8015B)		samples x	$65.00		$0.00
V. TPH- GRO (5030B/8015B)		samples x	$65.00		$0.00
W. Grain size/hydrometer		samples x	$99.00		$0.00
X. Total Organic Carbon		samples x	$35.00		$0.00
11. **Analyses-Air (Each Sample)**					
Y. BTEX + Naphthalene		samples x	$247.50		$0.00
11. **Analyses-Free Phase Product (Each Sample)**					
Z. Hydrocarbon Fuel Identification		samples x	$620.00		$0.00
12. **Aquifer Characterization***					
A. Pumping Test		hours x	$120.00		$0.00
B. Slug Test*		tests x	$150.00		$0.00
C. Fractured Rock		tests x	$500.00		$0.00
13. **Free Product Recovery Rate Test* (Each)**		tests x	$120.00		$0.00
14. **Fate/Transport Modeling**					
A. Mathematical Model		each x	$300.00		$0.00
B. Computer Model		each x	$500.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		x	$300.00		$0.00
B. Tier II Risk Evaluation		x	$500.00		$0.00
16. **Subsequent Survey***		x	$300.00		$0.00
17. **Disposal* (gallons or tons)**					
A. Wastewater	100	gallons x	$0.80		$80.00
B1. Free Product		gallons x	$0.85		$0.00
C. Soil Treatment/Disposal		tons x	$72.50		$0.00
D. Drilling fluids		gallons x	$0.80		$0.00
18. **Miscellaneous (attach receipts)**					
		x			$0.00
		x			$0.00
		x			$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		x			$0.00
21. **IGWA (Use DHEC 3666 form)**		x			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		x			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A. 8-hour Event*		each x	$3,000.00		$0.00
B. AFVR per-hour Continuance		per hour x	$204.00		$0.00
C. Off-gas treatment per-hour Continuance		per hour x	$35.00		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A. New GAC System Installation*		each x	$2,500.00		$0.00
B1. Refurbished GAC Sys. Install*		each x	$1,180.00		$0.00
C. Filter replacement/removal*		each x	$450.00		$0.00
D1. GAC System removal, cleaning, & refurbishment*		each x	$720.00		$0.00
E. GAC System housing		each x	$450.00		$0.00
F. In-line particulate filter		each x	$150.00		$0.00
G. Additional piping & fittings		feet x	$4.00		$0.00
25. **Well Repair**					
A. Additional Copies of the Report Delivered		each x	$32.50		$0.00
B. Repair 2x2 MW pad		each x	$100.00		$0.00
C. Repair 4x4 MW pad		each x	$150.00		$0.00
D. Repair well vault		each x	$225.00		$0.00
F. Replace well cover bolts		each x	$10.00		$0.00
G. Replace locking well cap & lock		each x	$15.00		$0.00
H. Replace/Repair stick-up		each x	$137.50		$0.00
I. Convert Flush-mount to Stick-up		each x	$175.00		$0.00
J. Convert Stick-up to Flush-mount		each x	$125.00		$0.00
K. Replace missing/illegible well ID plate		each x	$22.50		$0.00
Report Prep & Project Management	15%	x	$5,840.00		$876.00
TOTAL					$6,716.00

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

D H E C
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Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

NOV 2 1 2012

Re: **Groundwater Sampling Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA# 44418
Release #2 reported February 25, 1997
Site Specific QAPP Contractor Addendum and Associated Cost Agreement received November 5, 2012
Greenville County

Dear Ms. Mumbauer:

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 Bunnell-Lammons Engineering, Inc. The next appropriate scope of work at the site is comprehensive groundwater sampling event. All work should be conducted in accordance with the UST Quality Assurance Division Plan and must be conducted in compliance with all applicable regulations. A copy of the Agency Quality Assurance Program Plan (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 # 44418 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. 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.

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.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding 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 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 #11929. If you have any questions regarding this correspondence, 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, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Signed Site Specific QAPP Contractor Addendum

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (with enc.)
Technical File (with enc.)

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
Former Ryder Terminal – UST Permit #11929

10 Woods Lake Road, Greenville, South Carolina

Prepared by: Trevor J. Benton, P.G – Bunnell-Lammons Engineering, Inc.

Date: October 31, 2012

Bunnell-Lammons Engineering, Inc. – SCDHEC Certified Contractor No. UCC-010

Approvals

Stephanie Briney SC DHEC Project Manager	Signature	Date 11/19/12
Trever Z. Slack, P.G. Contractor QA Manager	Signature	Date 10/31/12
Thomas L. Lammons, P.G. Site Rehabilitation Contractor	Signature	Date 10/31/12
Neil Magee Laboratory Director	Signature	Date 10/31/12

Approved Cost Agreement 44418

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM

PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		C TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB					
		B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION					
		A GROUND WATER	19.0000	55.00	1,045.00
		D GROUNDWATER NO-PURGE	1.0000	35.00	35.00
		H FIELD BLANK	2.0000	5.00	10.00
11 ANALYSES	GW GROUNDWATER				
		A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	23.0000	100.00	2,300.00
		F EDB	23.0000	55.00	1,265.00
17 DISPOSAL					
		A WASTEWATER	100.0000	0.80	80.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	5,840.00	876.00
			Total Amount		6,716.00

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF GROUNDWATER SAMPLING EVENT: JANUARY 2013

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST AGREEMENT # 44418

Prepared For:

Ms. Ingrid Auten
C/O Ms. Annie Mumbauer
BB&T Wealth Management
Post Office Box 408
Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

April 30, 2013

BLE Project Number J12-1010-19

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

April 30, 2013

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull Street
Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

Subject: **Report Groundwater Sampling Event: January 2013**
Former Ryder Truck Terminal
Greenville, Greenville County
UST Permit #11929; CA #44418
BLE Project No. J12-1010-19

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of a comprehensive groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated November 21, 2012 and in accordance with BLE's Quality Assurance Program Plan (QAPP) Addendum dated September 20, 2012. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's

Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2012 by BLE to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

In an effort to evaluate the current groundwater chemicals of concern (CoC) trends at the subject site, the SCDHEC has required a comprehensive groundwater sampling event be conducted. The results of this scope of work are provided herein.

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are located on-site, and three wells (MW-7, MW-8, and MW-11) are located off-site.

On January 21, 2013, BLE personnel mobilized to the site to measure groundwater levels and sample each applicable monitoring well. Monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 were not sampled due to the presence of free-phase product in the wells. Additionally, site access for off-site monitoring wells MW-7, MW-8, and MW-11 was unable to be procured for this scope of work; therefore, water levels in these wells were unable to be collected. Free-product thicknesses and/or water-level measurements for the applicable wells are provided in Table 1. A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown on Figure 2.

Pursuant to SCDHEC's Master QAPP dated June 2011, only wells which have not been sampled within one calendar year or do not bracket the screened interval of the well at the time of sampling,

were required to be purged. As the site has not been sampled since November 2011, each monitoring well was purged prior to sample collection. Purge water generated during the monitoring well purging and sampling was contained in a sealed 55-gallon drum on site. This waste (23 gallons) was transported off-site for disposal. Monitoring well purging and sampling field procedures and sampling logs are included in Appendix A. Waste transportation and disposal records are attached in Appendix B.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were delivered to Shealy Environmental Services, Inc in West Columbia, South Carolina for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tert-butyl-ether (MTBE), 1,2-dichloroethane (1,2-DCA), and eight oxygenates by EPA Method 8260B and 1,2-dibromoethane (EDB) by EPA Method 8011. Additionally, as required by SCDHEC's Master QAPP dated June 2011, one field duplicate (MW-2(DUP)), one field blank (Field Blank-1), and one trip blank (Trip Blank-1) were collected and submitted for the appropriate laboratory analyses.

LABORATORY RESULTS

Of the 11 groundwater monitoring wells sampled for laboratory analysis, three locations (MW-2, MW-13, and MW-14) detected petroleum CoCs above South Carolina Risk-Based Screening Levels[1] (RBSLs). Additionally, free-product was detected in monitoring wells MW-3R (0.21 feet), MW-4 (0.37 feet), MW-6 (1.83 feet), MW-15 (0.25 feet), MW-17 (2.90 feet), and MW-18 (0.40) at the time of our sampling event. Laboratory analytical results for the groundwater samples are summarized in Tables 2 and 3 and are shown on Figure 3. Laboratory analytical data sheets are provided in Appendix C.

[1] South Carolina Risk-Based Corrective Action for Petroleum Releases, May 15, 2001.

CONCLUSIONS AND RECOMMENDATIONS

During the current assessment, laboratory analyses detected various CoCs in monitoring wells MW-2, MW-13, and MW-14 exceeding established RBSLs. Additionally, petroleum free-product was detected in six on-site monitoring wells (MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18).

Since free-phase petroleum product is still present at moderate thicknesses in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18, we recommend a series of five additional AFVR events be conducted at the site. After a minimum of 30 days from the final AFVR event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten, c/o Ms. Annie Mumbauer of BB&T Wealth Management. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey of the SCDHEC Bureau of Land and Waste Management, Financial Section, for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G., CHMM
Principal
Registered, South Carolina #893

TABLES

TABLE 1

Monitoring Well and Groundwater Surface Elevation Data
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #44418
BLE Project No. J12-1010-19

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	Free Product Thickness	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	29.00	NA	26.79	71.70	31.0	21.0 - 31.0	77.5 - 67.5
MW-2	100.10	100.54	26.90	NA	27.34	73.20	30.0	20.0 - 30.0	80.5 - 70.5
MW-2D	99.29	99.76	28.59	NA	29.07	70.70	54.5	49.5 - 54.5	50.3 - 45.3
MW-3	Well abandoned December 5, 2005								
MW-3R*	99.00	99.57	26.36	**0.21**	26.93	72.64	32.4	22.2 - 32.2	77.4 - 67.4
MW-4*	102.67	102.91	26.31	**0.37**	26.55	76.36	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	26.55	NA	26.79	74.93	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	27.85	**1.83**	28.23	73.89	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	NM	NA	NM	NM	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	NM	NA	NM	NM	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	27.35	NA	27.74	74.91	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	26.35	NA	26.35	78.32	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	NM	NA	NM	NM	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	27.85	NA	28.15	73.53	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	25.80	NA	26.13	72.82	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	25.85	NA	26.38	73.45	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	26.38	**0.25**	26.57	74.01	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	25.49	NA	25.78	77.25	34.4	24.2 - 34.2	78.8 - 68.8
MW-17*	102.09	102.49	27.47	**2.90**	27.87	74.62	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	27.12	**0.40**	27.47	73.27	35.6	25.4 - 35.4	75.3 - 65.3

NOTES:

Groundwater levels were measured on January 21, 2013.
Measurements are in feet; elevations are relative to an arbitrary site datum.
* = Depth to groundwater measurements for MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 have been corrected for the presence of free-product thickness using a density of 0.70 g/cc.
btoc = below top of casing
bgs = below ground surface
FP = Free-Product
NA = Not Applicable.

Prepared By: IAI
Checked By:PJVH

TABLE 2

Historical Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #44418
BLE Project No. J12-1010-19

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	40	25	0.05	5
MW-1	12/13/96	NA	**20.6**	**1.74**	**2.61**	**6.4**	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	**0.028**	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	<0.020	<5
	01/21/13	NA	<5	<5	<5	<5	<5	<5	<0.020	<5
MW-2	12/13/96	NA	**249**	**22.5**	**43.5**	**363**	**11.1**	**900**	NT	NT
	02/10/98	**0.7**	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**1.25**	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**1.92**	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**0.23**	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	**120**	ND	**6.8**	**170**	ND	**240**	**0.33**	NT
	05/29/07	**0.26**	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.02**	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	NA	**25.6**	<5	<5	**41.1J**	<5	**53.3**	**0.061**	<5
	11/02/11	NA	**35.0**	<5	<5	**16.0**	**0.59J**	**110**	<0.019	<5
	01/21/13	NA	**37.0**	<25	<25	**40.0**	<25	**440**	<0.019	<25
MW-2 (DUP)	01/21/13	NA	**31.0**	<25	<25	30.0	<25	**370**	<0.019	<25
MW-2D	02/10/98	NA	**2.55**	ND	ND	**3.21**	ND	**12.5**	ND	NT
	03/29/99	NA	**3.47**	ND	ND	ND	**3.12**	**4.3**	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	**1.4**	ND	ND	ND	**1.2**	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	**3.7**	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	**1.1**	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	**1.2J**	<5	<5	<10	<5	<5	<0.020	<5
	11/02/11	NA	**2.9J**	<5	<5	<5	**0.68J**	**3.2J**	<0.019	<5
	01/21/13	NA	**2.9J**	<5	<5	<5	**0.58J**	<5	<0.019	<5
MW-3	02/10/98	NA	**62.5**	**6.4**	**19.3**	**193**	ND	**106**	ND	NT
	03/29/99	**0.01**	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**0.12**	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	Monitoring Well Abandoned								
MW-3R	02/24/06	NA	**40.0**	ND	ND	**81.0**	ND	**120**	**0.90**	NT
	05/29/07	NA	**48.0**	ND	ND	**109**	ND	**140**	**0.51**	NT
	09/09/08	NA	**23.2**	ND	ND	**17.7**	ND	**63.2**	**0.44**	ND
	02/23/09	**0.6**	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.04**	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.35**	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/12	**0.21**	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	02/10/98	NA	**2.2**	ND	**1.73**	**150**	ND	**186**	ND	NT
	03/29/99	NA	ND	ND	ND	**10.6**	ND	**26.2**	NT	NT
	07/05/01	NA	ND	ND	ND	**21.5**	ND	**49.6**	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	**0.96**	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry								
	11/23/09	**0.47**	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**1.32**	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13	**0.37**	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	02/10/98	NA	**16.5**	ND	ND	**6.83**	ND	**33.3**	ND	NT
	03/29/99	NA	ND	ND	**1.13**	**6.26**	ND	**50.2**	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	**25.2**	**11.5**	**5.1**	**32.4**	ND	5.0	NT	NT
	02/02/04	NA	**23.1**	**4.0**	**2.0**	**8.7**	ND	ND	NT	NT
	01/20/05	NA	**11.0**	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	**1.0**	**5.9**	**2.8**	**7.8**	ND	**9.7**	ND	NT
	11/23/09	NA	<5	<5	**1.8J**	<10	<5	<5	<0.019	<5
	11/02/11	NA	**0.32J**	**2.3J**	**2.4J**	**3.6J**	<5	<5	<0.020	<5
	01/21/13	NA	<5	<5	<5	<5	<5	<5	<0.019	<5
MW-6	02/10/98	NA	**523**	**1,670**	**104**	**434**	**92.7**	**409**	ND	NT
	03/29/99	**1.83**	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	**>3.0**	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	**2.19**	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	**1.72**	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	**1.54**	NS	NS	NS	NS	NS	NS	NS	NS
	05/29/07	**0.63**	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	**0.42**	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	Dry								
	11/23/09	**3.10**	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**2.90**	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13	**1.83**	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	09/15/99	NA	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	**12.9**	ND	ND	**11.6**	**6.8**	**20.1**	NT	NT
	01/28/03	NA	**6.2**	ND	ND	**4.0**	**3.2**	**6.0**	NT	NT
	02/02/04	NA	ND	ND	ND	ND	**3.8**	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	**34.0**	ND	ND	**40.6**	**2.8**	**89.9**	**0.23**	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	<0.019	<5
	11/02/11	NA	**0.22J**	<5	<5	<5	<5	<5	0.023	<5
	01/21/13	Site Access Not Granted								

Prepared By: IAI
Checked By:PJVH

TABLE 2

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Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #44418
BLE Project No. J12-1010-19

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		NA	5	1,000	700	10,000	40	25	0.05	5
MW-8	09/15/99	NA	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	<0.019	<5
	01/21/13	Site Access Not Granted								
MW-9	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	<0.019	<5
	01/21/13	NA	<5	<5	<5	<5	<5	<5	<0.019	<5
MW-10	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	**5.4J**	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	<0.020	<5
	01/21/13	NA	<5	<5	<5	**2.3J**	<5	<5	<0.019	<5
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	<0.020	<5
	01/21/13	Site Access Not Granted								
MW-12	02/24/06	NA	ND	ND	ND	ND	**6.1**	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	**11.0**	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	**11.8**	ND	ND	ND
	02/23/09	Dry								
	11/23/09	NA	<5	<5	<5	<10	**14.0**	<5	<0.02	<5
	11/02/11	NA	<5	<5	<5	<5	**18.0**	<5	<0.019	<5
	01/21/13	NA	<5	<5	<5	<5	**15.0**	<5	<0.019	<5
MW-13	02/24/06	NA	**100**	ND	ND	**110**	ND	**100**	**0.76**	NT
	05/29/07	NA	**160**	ND	ND	**199**	ND	**170**	**0.62**	NT
	09/09/08	NA	**77.0**	ND	ND	**101**	ND	**226**	**0.162**	ND
	02/23/09	NA	**23.5**	ND	ND	**46.2**	ND	**68.1**	**0.18**	NT
	11/23/09	NA	**23.6**	<5	<5	**69.4**	<5	**58.4**	**0.46**	<5
	11/02/11	NA	**34.0**	<5	<5	**82.0**	**1.7J**	**130**	**0.30**	<5
	01/21/13	NA	**40.0**	<25	<25	**81.0**	<25	**190**	**0.12**	<25
MW-14	02/24/06	NA	**160**	**34.0**	**480**	**620**	ND	**160**	**0.46**	NT
	05/29/07	NA	**220**	ND	**550**	**700**	ND	**250**	**0.26**	NT
	09/09/08	NA	**82.4**	**3.81**	**54.8**	**67.1**	ND	**75.0**	**0.118**	ND
	02/23/09	NA	**175**	**9.9**	**303**	**119.8**	**1.9**	**194**	**0.20**	NT
	11/23/09	NA	**150**	**10.5**	**263**	**93.8J**	<10	**81.5**	**0.084**	<10
	11/02/11	NA	**36.0**	**2.0J**	**65.0**	**4.3J**	<5	**29.0**	**0.013J**	<5
	01/21/13	NA	**130**	<25	**360**	<25	<25	**160**	<0.021	<25
MW-15	02/24/06	NA	**100**	**8.0**	**25.0**	**160**	ND	**140**	**0.54**	NT
	05/29/07	NA	**190**	**12.0**	**21.0**	**240**	ND	**390**	**0.45**	NT
	09/09/08	**0.29**	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	**0.13**	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.90**	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.87**	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13	**0.25**	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/24/09	NA	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	<0.019	<5
	01/21/13	NA	<5	<5	<5	<5	<5	<5	<0.019	<5
MW-17	02/23/09	**0.79**	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**2.31**	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**1.65**	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13	**2.90**	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	**0.45**	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	**0.11**	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	**0.56**	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13	**0.40**	NS	NS	NS	NS	NS	NS	NS	NS
Field Blank-1	01/21/13	<5	<5	<5	<5	<5	<5	<5	<0.019	<5
Trip Blank-1	01/21/13	<5	<5	<5	<5	<5	<5	<5	<0.020	<5

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bold and shaded cells indicate concentrations above RBSLs
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By:PJVH

TABLE 3

Historical Laboratory Analytical Results
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #44418
BLE Project No. J12-1010-19

Boring ID #	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
MW-1	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
MW-2	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<50	<100	<25	<100	<25	<500	<5	<100
MW-2 (DUP)	01/21/13	<50	<100	<25	<100	<25	<500	<5	<100
MW-2D	02/23/09	NT	**70.5**	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
MW-3	02/23/06	Well Abandoned							
MW-3R	02/23/09	Well not sampled due to 0.60 feet of free-product present							
	11/23/09	Well not sampled due to 0.04 feet of free-product present							
	11/02/11	Well not sampled due to 0.35 feet of free-product present							
	01/21/13	Well not sampled due to 0.21 feet of free-product present							
MW-4	02/23/09	Dry							
	11/23/09	Well not sampled due to 0.47 feet of free-product present							
	11/02/11	Well not sampled due to 1.32 feet of free-product present							
	01/21/13	Well not sampled due to 0.37 feet of free-product present							
were measured	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
MW-6	02/23/09	Dry							
	11/23/09	Well not sampled due to 3.10 feet of free-product present							
	11/02/11	Well not sampled due to 2.90 feet of free-product present							
	01/21/13	Well not sampled due to 1.83 feet of free-product present							
MW-7	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	NT	NT	NT	NT	NT	NT	NT	NT
MW-8	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	NT	NT	NT	NT	NT	NT	NT	NT
MW-9	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
MW-10	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20

Prepared By: IAI
Checked By: PJVH

TABLE 3

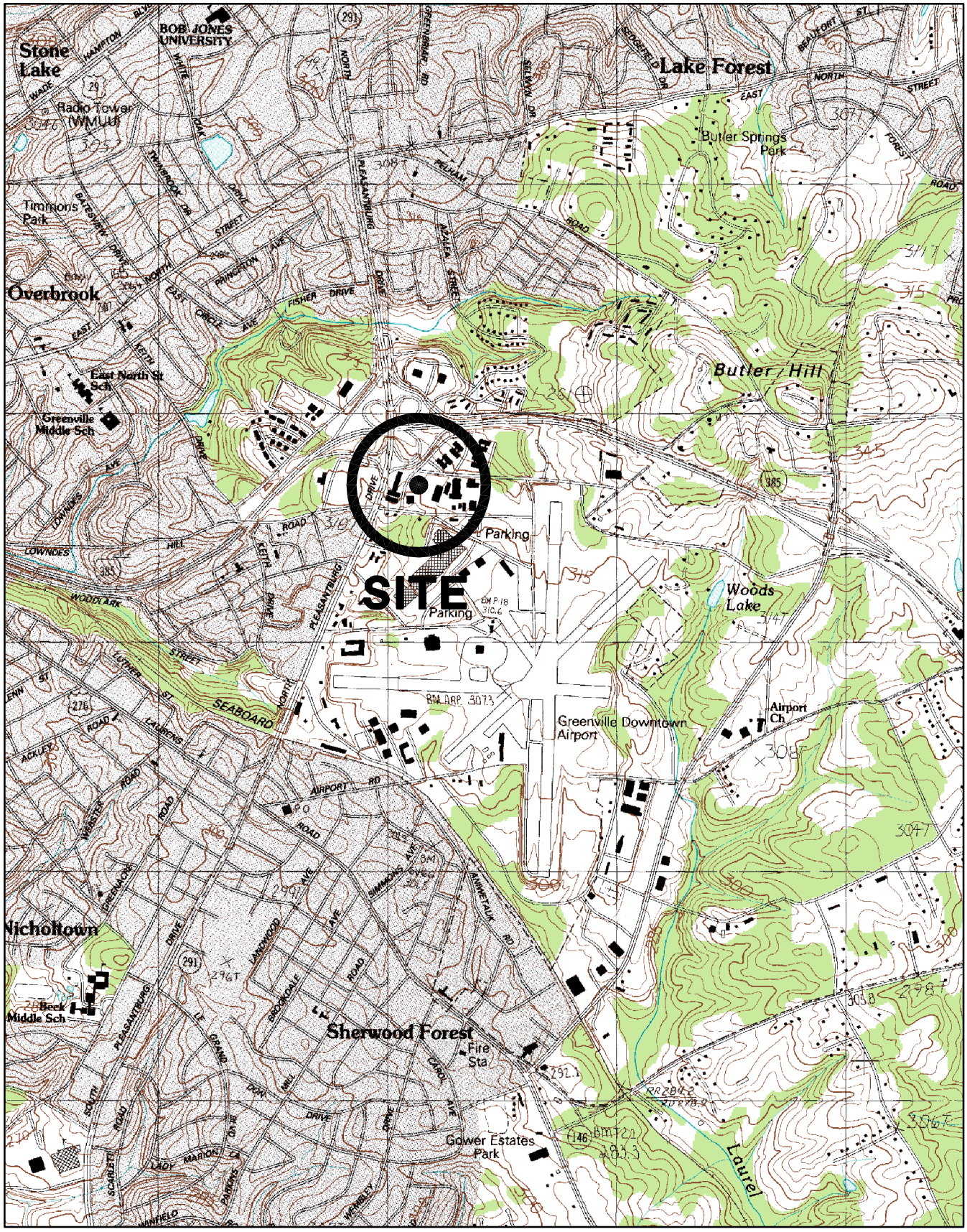
Historical Laboratory Analytical Results
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #44418
BLE Project No. J12-1010-19

Boring ID #	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
MW-11	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	NT	NT	NT	NT	NT	NT	NT	NT
MW-12	02/23/09	Dry							
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	**0.67J**	<20	<5	<20	<5	46J	<1	<20
	01/21/13	**0.40J**	<20	<5	<20	<5	<100	<1	<20
MW-13	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/24/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	**9.1J**	<5	**11.0J**	<5	<100	<1	<20
	01/21/13	<50	<100	<25	<100	<25	<500	<5	<100
MW-14	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<20	<200	<100	<200	<10	<400	<20	<200
	11/02/11	<10	<20	<5	**22.0**	<5	<100	<1	<20
	01/21/13	<50	**110**	<25	<100	<25	<500	<5	<100
MW-15	02/23/09	Well not sampled due to 0.13 feet of free-product present							
	11/23/09	Well not sampled due to 0.90 feet of free-product present							
	11/02/11	Well not sampled due to 0.87 feet of free-product present							
	01/21/13	Well not sampled due to 0.25 feet of free-product present							
MW-16	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
MW-17	02/23/09	Well not sampled due to 0.79 feet of free-product present							
	11/23/09	Well not sampled due to 2.31 feet of free-product present							
	11/02/11	Well not sampled due to 1.65 feet of free-product present							
	01/21/13	Well not sampled due to 2.90 feet of free-product present							
MW-18	02/23/09	Well not sampled due to 0.45 feet of free-product present							
	11/23/09	Well not sampled due to 0.11 feet of free-product present							
	11/02/11	Well not sampled due to 0.56 feet of free-product present							
	01/21/13	Well not sampled due to 0.35 feet of free-product present							
Field Blank-1	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
Trip Blank-1	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold and shaded cells indicate concentrations above RBSLs
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: PJVH

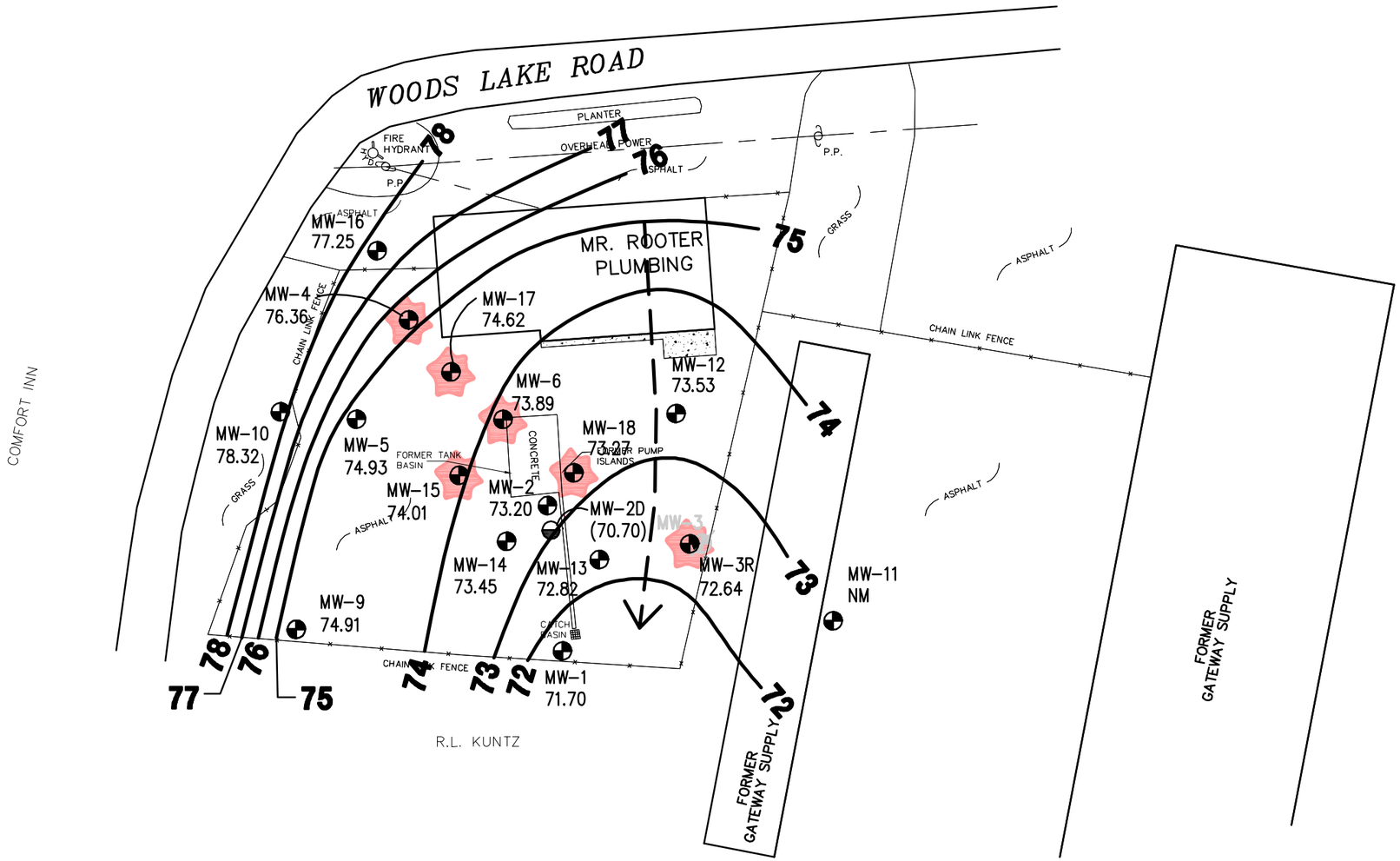
FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 09-19-12	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-19SLM		FIGURE 1
APPROVED:	JOB NO: J12-1010-19		



NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 01-21-13. ELEVATIONS ARE RELATIVE TO AN ARBITRARY SITE DATUM.
2. GROUNDWATER ELEVATION DATA FOR MW-2D WAS IGNORED FOR CONTOURING PURPOSES DUE TO THE DEPTH OF THE WELL SCREEN.
3. GROUNDWATER ELEVATIONS FOR MW-3R, MW-4, MW-6, MW-15, MW-17, AND MW-18 HAVE BEEN CORRECTED FOR FREE PRODUCT THICKNESS USING A DENSITY OF 0.70 g/cm .
4. SITE ACCESS TO MONITORING WELLS MW-7, MW-8, AND MW-11 WAS NOT GRANTED DURING THIS SCOPE OF WORK.
5. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.

60 30 0 60 120

APPROXIMATE SCALE IN FEET

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- 73.20 — GROUNDWATER ELEVATION IN FEET RELATIVE TO AN ARBITRARY SITE DATUM
- 76 — GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- FREE-PRODUCT
- NM — NOT MEASURED

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	04-12-13
CHECKED BY:	IAI	FILE:	FORMERRTT-19WTM
APPROVED BY:		JOB NO:	J12-1010-19

REVISIONS		
No.	DESCRIPTION	BY

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP – JANUARY 21, 2013
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 2

MONITORING WELL #	17
FREE-PRODUCT THICKNESS (feet)	2.90

MONITORING WELL #	4
FREE-PRODUCT THICKNESS (feet)	0.37

MONITORING WELL #	MW-16
NO COCs DETECTED	

MONITORING WELL #	6
FREE-PRODUCT THICKNESS (feet)	1.83

MONITORING WELL #		MW-2
BENZENE	(feet)	37.0
TOLUENE	(ug/l)	<25
ETHYLBENZENE	(ug/l)	<25
XYLENES	(ug/l)	40.0
MTBE	(ug/l)	<25
NAPHTHALENE	(ug/l)	440
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<25
NO 8-OXYGENATES DETECTED		

MONITORING WELL #		MW-12
BENZENE	(feet)	<5.0
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	<5.0
MTBE	(ug/l)	15.0
NAPHTHALENE	(ug/l)	<5.0
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<5.0
TAME	(ug/l)	0.40J
TAA	(ug/l)	<20.0
TBF	(ug/l)	<5.0
TBA	(ug/l)	<20.0
IPE	(ug/l)	<5.0
ETHANOL	(ug/l)	<100
ETBE	(ug/l)	<1.0
ETBA	(ug/l)	<20.0

MONITORING WELL #	18
FREE-PRODUCT THICKNESS (feet)	0.4

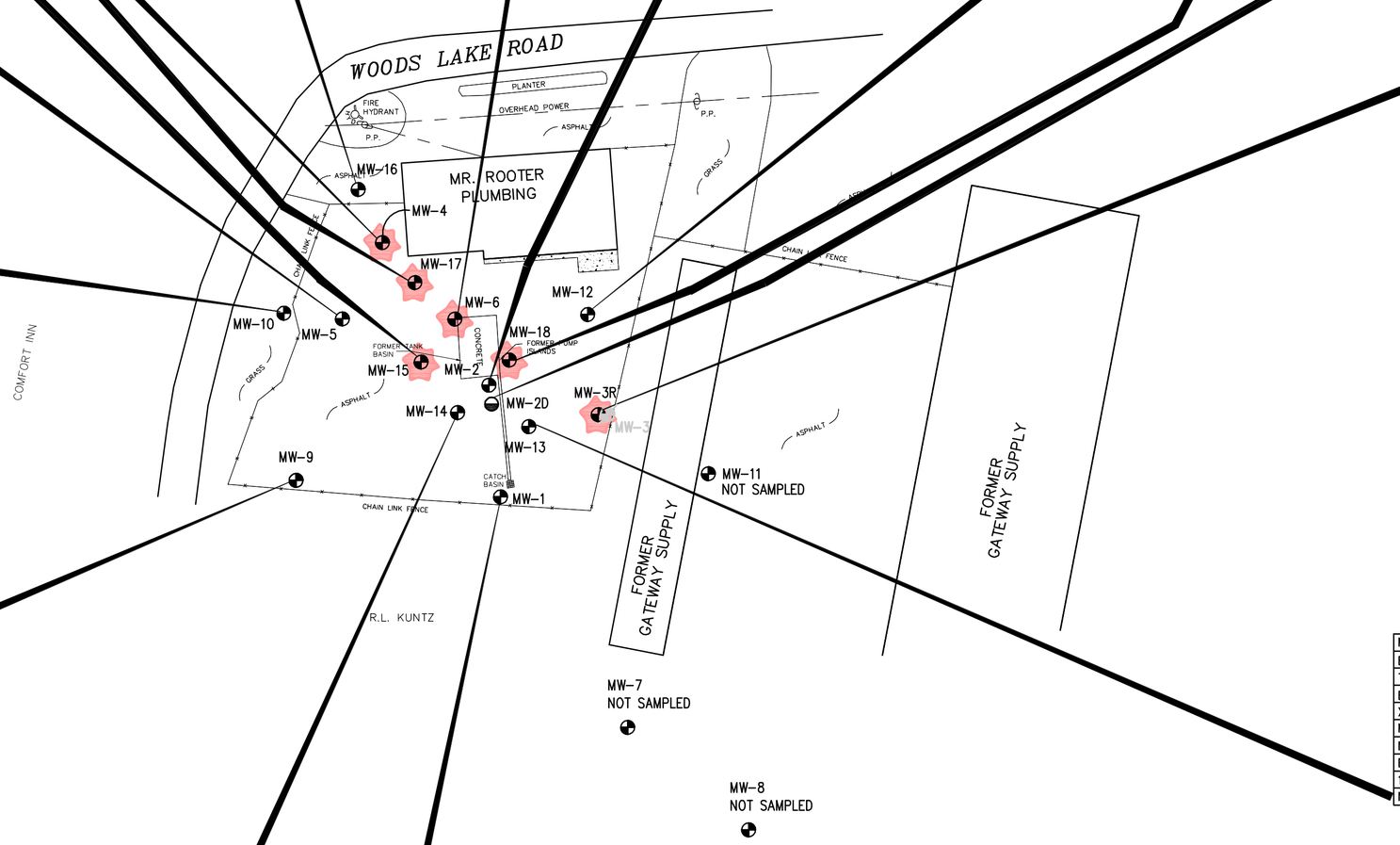
MONITORING WELL #		MW-2D
BENZENE	(feet)	2.9J
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	<5.0
MTBE	(ug/l)	0.58J
NAPHTHALENE	(ug/l)	<5.0
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<5.0
NO 8-OXYGENATES DETECTED		

MONITORING WELL #	15
FREE-PRODUCT THICKNESS (feet)	0.25

MONITORING WELL #	MW-5
NO COCs DETECTED	

MONITORING WELL #	3R
FREE-PRODUCT THICKNESS (feet)	0.21

MONITORING WELL #		MW-10
BENZENE	(feet)	<5.0
TOLUENE	(ug/l)	<5.0
ETHYLBENZENE	(ug/l)	<5.0
XYLENES	(ug/l)	2.3J
MTBE	(ug/l)	<5.0
NAPHTHALENE	(ug/l)	<5.0
EDB	(ug/l)	<0.019
1,2-DCA	(ug/l)	<5.0
NO 8-OXYGENATES DETECTED		



MONITORING WELL #	MW-9
NO COCs DETECTED	

MONITORING WELL #		MW-14
BENZENE	(feet)	130
TOLUENE	(ug/l)	<25
ETHYLBENZENE	(ug/l)	360
XYLENES	(ug/l)	<25
MTBE	(ug/l)	<25
NAPHTHALENE	(ug/l)	160
EDB	(ug/l)	<0.021
1,2-DCA	(ug/l)	<25
NO 8-OXYGENATES DETECTED		

MONITORING WELL #	MW-1
NO COCs DETECTED	

MONITORING WELL #		MW-13
BENZENE	(feet)	40
TOLUENE	(ug/l)	<25
ETHYLBENZENE	(ug/l)	<25
XYLENES	(ug/l)	81.0
MTBE	(ug/l)	<25
NAPHTHALENE	(ug/l)	190
EDB	(ug/l)	0.12
1,2-DCA	(ug/l)	<25
NO 8-OXYGENATES DETECTED		

NOTES:

1. WATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLES WERE COLLECTED ON 01-21-13.
2. SITE ACCESS TO MONITORING WELLS MW-7, MW-8, AND MW-11 WAS NOT GRANTED DURING THIS SCOPE OF WORK.
3. MONITORING WELL MW-3 WAS DAMAGED (OBSTRUCTION). THE WELL WAS ABANDONED ON 12-5-05 AND REPLACED BY MW-3R.
4. PURSUANT TO SCDHEC'S DIRECTIVE, WELLS CONTAINING FREE PRODUCT WERE NOT SAMPLED.
5. J = J-FLAGGED VALUE CONCENTRATION DETECTED BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE REPORTING LIMIT, AND SHOULD BE CONSIDERED APPROXIMATE.
6. BOLD AND SHADED CELLS INDICATE CONCENTRATIONS ABOVE RBSL's.
7. RBSL = RISK BASED SCREENING LEVEL.

60 30 0 60 120
APPROXIMATE SCALE IN FEET

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- ND — NOT DETECTED
- NA — NOT APPLICABLE
- (ug/l) — MICROGRAMS PER LITER = PARTS PER BILLION
- FREE-PRODUCT

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

REVISIONS		
No.	DESCRIPTION	BY

DRAWN: ACE
CHECKED: IAI
APPROVED:
DATE: 04-12-13
CAD FILE: FORMERRTT-19GWCOC
JOB NO: J12-1010-19

IBLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC MAP – JANUARY 21, 2013
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE NO.
3

APPENDICES

APPENDIX A

GROUNDWATER SAMPLING PROCEDURES AND SAMPLING LOGS

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon® lined lids and marked with identifying numbers. Samples were maintained at 4□Celsius in a refrigerated sample cooler and delivered via courier to Shealy Environmental Services in West Columbia, South Carolina for analysis.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013
Field Personnel	Ivan A. Irizarry
General weather Conditions	Partly Cloudy
Ambient Air Temperature (°F)	53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1

Well Diameter (D) 2 inch of 31.00 feet(ft)

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft		
Total Well Depth (TWD)	31.00	ft		
Depth to Groundwater (DGW)	29.00	ft		
Length of Water Colum (LWC = TWD-DGW)			2.00	ft
1 Casing Volume (LWC*C) =	2.00	X .17 =	0.34	gals
3 Casing Volumes = 3 X	0.34	=	1.02	gals
	(Standard Purge Volume)			

Total Volume of Water Purged Before Sampling 1.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	0.5	1.0					
Time (military)	1000	1010	1015					
pH (s.u)	5.76	5.88	6.01					
Specific Conductivity	130.5	132.0	133.0					
Water Temperature (°C)	16.6	16.7	16.6					
Turbidity (subjective: clear, slightly cloudy, cloudy)	10.3	155	250					
Dissolved Oxygen (mg/l)	0.21							

Remarks: Well dry after 1.0 gallons of water removed. Well sampled at 1020 on January 21, 2013.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013
Field Personnel	Ivan A. Irizarry
General weather Conditions	Partly Cloudy
Ambient Air Temperature (°F)	53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.00	ft
Depth to Groundwater (DGW)	25.9	ft
Length of Water Colum (LWC = TWD-DGW)	4.10	ft
1 Casing Volume (LWC*C) = 4.10 X .17 =	0.70	gals
3 Casing Volumes = 3 X 0.70 = (Standard Purge Volume)	1.59	gals

Total Volume of Water Purged Before Sampling 0.8 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	0.5						
Time (military)	1031	1035						
pH (s.u)	5.50	5.45						
Specific Conductivity	123.1	83.4						
Water Temperature (°C)	19.3	20.4						
Turbidity (subjective: clear, slightly cloudy, cloudy)	13.3	863						
Dissolved Oxygen (mg/l)	0.45							

Remarks: Well dry after 8.0 gallons of water removed. Well sampled at 1038 on January 21,2012

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft			
Total Well Depth (TWD)	54.50	ft			
Depth to Groundwater (DGW)	28.59	ft			
Length of Water Colum (LWC = TWD-DGW)					25.91 ft
1 Casing Volume (LWC*C) =	25.91	X	.17	=	4.40 gals
3 Casing Volumes = 3 X	4.40		=		13.20 gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: 10.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	4.5	10.0					
Time (military)	1203	1212	1223					
pH (s.u)	6.56	6.39	6.02					
Specific Conductivity	123.1	145.5	150.0					
Water Temperature (°C)	20.4	19.5	19.8					
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.67	10.8	12.9					
Dissolved Oxygen (mg/l)	1.2							

Remarks: Well dry after 10.5 gallons of water removed. Well sampeld at 1225 on January 21, 2012.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Well # MW-3R

Well Diameter (D) 2 inch of 32.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness 0.21 ft
Total Well Depth (TWD) 32.40 ft
Depth to Groundwater (DGW) 26.36 ft
Length of Water Colum (LWC = TWD-DGW) 6.04 ft
1 Casing Volume (LWC*C) = 6.04 X .17 = 1.03 gals
3 Casing Volumes = 3 X 1.03 = 3.09 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.21 feet of free-product detected.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.37	ft			
Total Well Depth (TWD)	29.50	ft			
Depth to Groundwater (DGW)	26.31	ft			
Length of Water Colum (LWC = TWD-DGW)				3.19	ft
1 Casing Volume (LWC*C) =	3.19	X .17	=	0.54	gals
3 Casing Volumes = 3 X	0.54	=		1.62	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.37 feet of free-product detected.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013		
Field Personnel	Ivan A. Irizarry		
General weather Conditions	Partly Cloudy		
Ambient Air Temperature (°F)	53		
Facility Name:	Former Ryder Truck Terminal	Site ID #:	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-5				
Well Diameter (D)	2	inch of	29.00	feet(ft)	
conversion factor (C): 3.143*(D/2)^2					
for a 2 inch well C = 0.163					
for a 4 inch well C = 0.652					
*Free Product Thickness	NA	ft			
Total Well Depth (TWD)	29.00	ft			
Depth to Groundwater (DGW)	26.55	ft			
Length of Water Colum (LWC = TWD-DGW)			2.45	ft	
1 Casing Volume (LWC*C) =	2.45	X .17 =	0.42	gals	
3 Casing Volumes = 3 X	0.42	=	1.26	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling 0.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	0.5						
Time (military)	1147	1149						
pH (s.u)	5.27	4.98						
Specific Conductivity	70.8	98.7						
Water Temperature (°C)	17.9	18.0						
Turbidity (subjective: clear, slightly cloudy, cloudy)	15.6	839						
Dissolved Oxygen (mg/l)	1.93							

Remarks: Well dry after 0.5 gallons of water removed. Well sampled at 1150 on January 21, 2013

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	1.83	ft
Total Well Depth (TWD)	29.50	ft
Depth to Groundwater (DGW)	27.85	ft
Length of Water Colum (LWC = TWD-DGW)	1.65	ft

1 Casing Volume (LWC*C) = 1.65 X .17 = 0.25 gals
3 Casing Volumes = 3 X 0.25 = 0.75 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 1.83 feet of free-product detected.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-7

Well Diameter (D) 2 inch of 32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 32.80 ft
Depth to Groundwater (DGW) ft
Length of Water Colum (LWC = TWD-DGW) ft
1 Casing Volume (LWC*C) = X .17 = gals
3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Property access not granted. Well unable to be sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 29.80 ft
Depth to Groundwater (DGW) ft
Length of Water Colum (LWC = TWD-DGW) ft
1 Casing Volume (LWC*C) = X .17 = gals
3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Property access not granted. Well unable to be sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 30.70 ft
Depth to Groundwater (DGW) 27.35 ft
Length of Water Colum (LWC = TWD-DGW) 3.35 ft
1 Casing Volume (LWC*C) = 3.35 X .17 = 0.57 gals
3 Casing Volumes = 3 X 0.57 = 2.22 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	1.0	1.5					
Time (military)	1133	1035	1138					
pH (s.u)	5.40	5.01	4.92					
Specific Conductivity	56.2	50.6	43.1					
Water Temperature (°C)	18.3	18.1	18.4					
Turbidity (subjective: clear, slightly cloudy, cloudy)	10.9	931	>2,000					
Dissolved Oxygen (mg/l)								

Remarks: Well dry after 1.5 gallons of water removed. Well sampled at 1140 on January 21, 2013.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well # MW-10

Well Diameter (D) 2 inch of 30.10 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.10	ft
Depth to Groundwater (DGW)	26.35	ft
Length of Water Colum (LWC = TWD-DGW)	3.75	ft
1 Casing Volume (LWC*C) = 3.75 X .17 =	0.64	gals
3 Casing Volumes = 3 X 0.64 =	2.00	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: 1.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	1.0						
Time (military)	1250	1307						
pH (s.u)	5.62	4.91						
Specific Conductivity	123.7	130.0						
Water Temperature (°C)	18.7	18.8						
Turbidity (subjective: clear, slightly cloudy, cloudy)	7.3	18.8						
Dissolved Oxygen (mg/l)	1.85							

Remarks: Well dry after 1.0 gallons of water removed. Well sampled at 1310 on January 21, 2013.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 31.00 ft
Depth to Groundwater (DGW) ft
Length of Water Colum (LWC = TWD-DGW) ft
1 Casing Volume (LWC*C) = X .17 = gals
3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Property access not granted. Well unable to be sampled.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013		
Field Personnel	Ivan A. Irizarry		
General weather Conditions	Partly Cloudy		
Ambient Air Temperature (°F)	53		
Facility Name:	Former Ryder Truck Terminal	Site ID #:	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-12				
Well Diameter (D)	2	inch of	30.90	feet(ft)	
conversion factor (C): 3.143*(D/2)^2					
for a 2 inch well C = 0.163					
for a 4 inch well C = 0.652					
*Free Product Thickness	NA	ft			
Total Well Depth (TWD)	30.90	ft			
Depth to Groundwater (DGW)	27.85	ft			
Length of Water Colum (LWC = TWD-DGW)			3.05	ft	
1 Casing Volume (LWC*C) =	3.05	X .17 =	0.52	gals	
3 Casing Volumes = 3 X	0.52	=	1.56	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling 0.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	0.5						
Time (military)	1120	1123						
pH (s.u)	4.96	4.93						
Specific Conductivity	125.3	123.2						
Water Temperature (°C)	20.3	20.4						
Turbidity (subjective: clear, slightly cloudy, cloudy)	9.75	>2,000						
Dissolved Oxygen (mg/l)	0.21							

Remarks:

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013		
Field Personnel	Ivan A. Irizarry		
General weather Conditions	Partly Cloudy		
Ambient Air Temperature (°F)	53		
Facility Name:	Former Ryder Truck Terminal	Site ID #:	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-13				
Well Diameter (D)	2	inch of	33.20	feet(ft)	
conversion factor (C): 3.143*(D/2)^2					
for a 2 inch well C = 0.163					
for a 4 inch well C = 0.652					
*Free Product Thickness	NA	ft			
Total Well Depth (TWD)	33.20	ft			
Depth to Groundwater (DGW)	25.8	ft			
Length of Water Colum (LWC = TWD-DGW)			7.40	ft	
1 Casing Volume (LWC*C) =	7.40	X .17 =	1.26	gals	
3 Casing Volumes = 3 X	1.26	=	4.00	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling 1.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	1.5						
Time (military)	1105	1109						
pH (s.u)	5.05	5.20						
Specific Conductivity	69.0	81.2						
Water Temperature (°C)	20.3	19.4						
Turbidity (subjective: clear, slightly cloudy, cloudy)	15.2	>2,000						
Dissolved Oxygen (mg/l)	1.10							

Remarks: Wells dry after 1.5 gallons of water removed. Well sampled at 1112 on January 21, 2013.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013		
Field Personnel	Ivan A. Irizarry		
General weather Conditions	Partly Cloudy		
Ambient Air Temperature (°F)	53		
Facility Name:	Former Ryder Truck Terminal	Site ID #:	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-14					
Well Diameter (D)	2	inch of	32.00	feet(ft)		
conversion factor (C): 3.143*(D/2)^2						
for a 2 inch well C = 0.163						
for a 4 inch well C = 0.652						
*Free Product Thickness	NA	ft				
Total Well Depth (TWD)	32.00	ft				
Depth to Groundwater (DGW)	25.85	ft				
Length of Water Colum (LWC = TWD-DGW)			6.15	ft		
1 Casing Volume (LWC*C) =	6.15	X .17 =	1.05	gals		
3 Casing Volumes = 3 X	1.05	=	3.15	gals		
(Standard Purge Volume)						
Total Volume of Water Purged Before Sampling			1.5	gals		

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	1.0						
Time (military)	1049	1053						
pH (s.u)	5.45	5.37						
Specific Conductivity	106.5	95.5						
Water Temperature (°C)	20.7	20.9						
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.7	953						
Dissolved Oxygen (mg/l)	1.3							

Remarks: Weoll dry after 1.5 gallons of water removed. Well sampled at 1056 on January 21, 2012.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D) 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.25	ft			
Total Well Depth (TWD)	33.50	ft			
Depth to Groundwater (DGW)	26.38	ft			
Length of Water Colum (LWC = TWD-DGW)				7.12	ft
1 Casing Volume (LWC*C) =	7.12	X	.17 =	1.21	gals
3 Casing Volumes = 3 X	1.21		=	5.07	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.25 feet of free-phase petroleum product present.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date	January 21, 2013
Field Personnel	Ivan A. Irizarry
General weather Conditions	Partly Cloudy
Ambient Air Temperature (°F)	53
Facility Name:	Former Ryder Truck Terminal
Site ID #:	11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Ivan A. Irizarry	1/22/13:1145	Shealy	1/22/13:1145
Relinquished by	Date/Time	Received by	Date/Time

Well #	MW-16				
Well Diameter (D)	2	inch of	34.40	feet(ft)	
conversion factor (C): 3.143*(D/2)^2					
for a 2 inch well C = 0.163					
for a 4 inch well C = 0.652					
*Free Product Thickness	NA	ft			
Total Well Depth (TWD)	34.40	ft			
Depth to Groundwater (DGW)	25.49	ft			
Length of Water Colum (LWC = TWD-DGW)			8.91	ft	
1 Casing Volume (LWC*C) =	8.91	X .17 =	1.51	gals	
3 Casing Volumes = 3 X	1.51	=	4.05	gals	
(Standard Purge Volume)					

Total Volume of Water Purged Before Sampling 4.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--	1.5	3.0	4.5				
Time (military)	0846	0851	0859	0900				
pH (s.u)	5.90	4.98	4.97	4.99				
Specific Conductivity	69.7	70.10	71.30	71.40				
Water Temperature (°C)	17.9	17.6	17.7	17.7				
Turbidity (subjective: clear, slightly cloudy, cloudy)	58.3	356	>2,000	>2,000				
Dissolved Oxygen (mg/l)	2.91							

Remarks: Well sampled at 0900 on January 21, 2013.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	2.90	ft			
Total Well Depth (TWD)	35.00	ft			
Depth to Groundwater (DGW)	27.47	ft			
Length of Water Colum (LWC = TWD-DGW)				7.53	ft
1 Casing Volume (LWC*C) =	7.53	X	.17 =	1.28	gals
3 Casing Volumes = 3 X	1.28		=	3.84	gals
	(Standard Purge Volume)				

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 2.90 feet of free-phase petroleum product present.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date: January 21, 2013
Field Personnel: Ivan A. Irizarry
General weather Conditions: Partly Cloudy
Ambient Air Temperature (°F): 53

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter (D) 2 inch of 35.60 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.40	ft
Total Well Depth (TWD)	35.60	ft
Depth to Groundwater (DGW)	27.12	ft
Length of Water Colum (LWC = TWD-DGW)	8.48	ft

1 Casing Volume (LWC*C) = 8.48 X .17 = 1.44 gals
3 Casing Volumes = 3 X 1.44 = 4.17 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling: NA gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	--							
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.40 feet of free-phase petroleum product present.

APPENDIX B

PURGE WATER DISPOSAL MANIFEST

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				112-7635-05

5. Generator's Name and Mailing Address
SUNNELL-LAMMON ENG, INC
5004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1265

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

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

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

8. Designated Facility Name and Site Address
VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
U.S. EPA ID Number: SCR000762450
Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description		10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11312	Kellett Shell Mauldin SC. UST# 04595			802	g
2.	NON HAZ NON REG well water #11312	Southern Grocery 280 Good Union Rd UST# 08160			419	g
3.	NON HAZ NON Reg Well water #1312	Young's GS 5318 Fairfield UST# 029180			167	g
4.	NON HAZ NON Reg well water #11312	Farmer Rucker Truck 10 Woods Lake Rd. UST# 11929			23	g

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Bobby Wilkinson	[signature]	2	5	13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Robert Wilkinson	[signature]	2	12	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

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

Printed/Typed Name	Signature	Month	Day	Year
Steven Wilson	[signature]	2	12	13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

APPENDIX C

LABORATORY ANALYTICAL DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: **Former Ryder Truck**

Project Number: **1010-19**

Lot Number: **OA22055**

Date Completed: **02/06/2013**

Lucas Odom
Project Manager

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

OA22055

Case Narrative
Bunnell-Lammons Engineering, Inc.
Lot Number: OA22055

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: OA22055

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	01/21/2013 1020	01/22/2013
002	MW-2	Aqueous	01/21/2013 1038	01/22/2013
003	MW-2 (DUP)	Aqueous	01/21/2013 1040	01/22/2013
004	MW-5	Aqueous	01/21/2013 1150	01/22/2013
005	MW-9	Aqueous	01/21/2013 1140	01/22/2013
006	MW-10	Aqueous	01/21/2013 1310	01/22/2013
007	MW-12	Aqueous	01/21/2013 1125	01/22/2013
008	MW-13	Aqueous	01/21/2013 1112	01/22/2013
009	MW-14	Aqueous	01/21/2013 1056	01/22/2013
010	MW-16	Aqueous	01/21/2013 0900	01/22/2013
011	MW-2D	Aqueous	01/21/2013 1225	01/22/2013
012	FB-1	Aqueous	01/21/2013 1240	01/22/2013
013	TB	Aqueous	01/21/2013	01/22/2013

(13 samples)

Executive Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: OA22055

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-2	Aqueous	Benzene	8260B	37		ug/L	6
002	MW-2	Aqueous	Naphthalene	8260B	440		ug/L	6
002	MW-2	Aqueous	Xylenes (total)	8260B	40		ug/L	6
003	MW-2 (DUP)	Aqueous	Benzene	8260B	31		ug/L	7
003	MW-2 (DUP)	Aqueous	Naphthalene	8260B	370		ug/L	7
003	MW-2 (DUP)	Aqueous	Xylenes (total)	8260B	30		ug/L	7
006	MW-10	Aqueous	Xylenes (total)	8260B	2.3	J	ug/L	10
007	MW-12	Aqueous	tert-Amyl methyl ether (TAME)	8260B	0.40	J	ug/L	11
007	MW-12	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	15		ug/L	11
008	MW-13	Aqueous	Benzene	8260B	40		ug/L	12
008	MW-13	Aqueous	Naphthalene	8260B	190		ug/L	12
008	MW-13	Aqueous	Xylenes (total)	8260B	81		ug/L	12
008	MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.12		ug/L	12
009	MW-14	Aqueous	tert-Amyl alcohol (TAA)	8260B	110		ug/L	13
009	MW-14	Aqueous	Benzene	8260B	130		ug/L	13
009	MW-14	Aqueous	Ethylbenzene	8260B	360		ug/L	13
009	MW-14	Aqueous	Naphthalene	8260B	160		ug/L	13
011	MW-2D	Aqueous	Benzene	8260B	2.9	J	ug/L	15
011	MW-2D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.58	J	ug/L	15

(19 detections)

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-001
Description: MW-1 | Matrix: Aqueous
Date Sampled: 01/21/2013 1020
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0400	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		94	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 1540	AMY	01/24/2013 2045	12473

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: OA22055-002
Description: MW-2
Matrix: Aqueous
Date Sampled: 01/21/2013 1038
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	02/03/2013 1707	AAC		13157

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	34	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	2
Benzene	71-43-2	8260B	37		25	1.0	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	5.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	5.0	ug/L	2
Ethanol	64-17-5	8260B	ND		500	170	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	2
Naphthalene	91-20-3	8260B	440		25	8.5	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	34	ug/L	2
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	2
Xylenes (total)	1330-20-7	8260B	40		25	8.5	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		124	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 1644	AMY	01/24/2013 2045	12473

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		117	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: OA22055-003
Description: MW-2 (DUP)
Matrix: Aqueous
Date Sampled: 01/21/2013 1040
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	01/31/2013 0610	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	34	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1
Benzene	71-43-2	8260B	31		25	1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		500	170	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	370		25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	34	ug/L	1
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	30		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 1705	AMY	01/24/2013 2045	12473

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: OA22055-004
Description: MW-5
Matrix: Aqueous
Date Sampled: 01/21/2013 1150
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0736	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 1830	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-005
Description: MW-9 | Matrix: Aqueous
Date Sampled: 01/21/2013 1140
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0443	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 1934	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-006
Description: MW-10 | Matrix: Aqueous
Date Sampled: 01/21/2013 1310
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0505	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	2.3	J	5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 1956	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		98	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-007
Description: MW-12 | Matrix: Aqueous
Date Sampled: 01/21/2013 1125
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0422	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	0.40	J	10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	15		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2017	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-008
Description: MW-13 | Matrix: Aqueous
Date Sampled: 01/21/2013 1112
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	01/31/2013 0632	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	34	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1
Benzene	71-43-2	8260B	40		25	1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	S	25	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		500	170	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	190		25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	34	ug/L	1
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	81		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2038	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.12		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-009
Description: MW-14 | Matrix: Aqueous
Date Sampled: 01/21/2013 1056
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	01/31/2013 0653	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	110		100	34	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1
Benzene	71-43-2	8260B	130		25	1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		500	170	ug/L	1
Ethylbenzene	100-41-4	8260B	360		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	160		25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	34	ug/L	1
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2100	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	Q	0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		120	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-010
Description: MW-16 | Matrix: Aqueous
Date Sampled: 01/21/2013 0900
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0526	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		94	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2121	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-011
Description: MW-2D | Matrix: Aqueous
Date Sampled: 01/21/2013 1225
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0548	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	2.9	J	5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	0.58	J	5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2142	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: OA22055-012
Description: FB-1 | Matrix: Aqueous
Date Sampled: 01/21/2013 1240
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0233	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2204	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time | Q = Surrogate failure
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria | L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" | S = MS/MSD failure

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: OA22055-013
Description: TB
Matrix: Aqueous
Date Sampled: 01/21/2013
Date Received: 01/22/2013

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/31/2013 0255	JAC		12898

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/26/2013 2225	AMY	01/25/2013 1121	12536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ12898-001
Batch: 12898
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	01/31/2013 0201
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	01/31/2013 0201
Benzene	ND		1	5.0	0.20	ug/L	01/31/2013 0201
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	01/31/2013 0201
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	01/31/2013 0201
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	01/31/2013 0201
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	01/31/2013 0201
Ethanol	ND		1	100	33	ug/L	01/31/2013 0201
Ethylbenzene	ND		1	5.0	1.7	ug/L	01/31/2013 0201
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	01/31/2013 0201
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	01/31/2013 0201
Naphthalene	ND		1	5.0	1.7	ug/L	01/31/2013 0201
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	01/31/2013 0201
Toluene	ND		1	5.0	1.7	ug/L	01/31/2013 0201
Xylenes (total)	ND		1	5.0	1.7	ug/L	01/31/2013 0201

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ12898-002
Batch: 12898
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	103	70-130	01/31/2013 0033
tert-Amyl methyl ether (TAME)	50	54		1	108	70-130	01/31/2013 0033
Benzene	50	51		1	101	70-130	01/31/2013 0033
tert-Butyl formate (TBF)	250	280		1	110	70-130	01/31/2013 0033
1,2-Dichloroethane	50	46		1	92	70-130	01/31/2013 0033
Diisopropyl ether (IPE)	50	55		1	110	70-130	01/31/2013 0033
3,3-Dimethyl-1-butanol	1000	1000		1	102	70-130	01/31/2013 0033
Ethanol	5000	4700		1	94	70-130	01/31/2013 0033
Ethylbenzene	50	52		1	104	70-130	01/31/2013 0033
Ethyl-tert-butyl ether (ETBE)	50	54		1	109	70-130	01/31/2013 0033
Methyl tertiary butyl ether (MTBE)	50	55		1	111	70-130	01/31/2013 0033
Naphthalene	50	51		1	101	70-130	01/31/2013 0033
tert-butyl alcohol (TBA)	1000	960		1	96	70-130	01/31/2013 0033
Toluene	50	50		1	99	70-130	01/31/2013 0033
Xylenes (total)	100	110		1	107	70-130	01/31/2013 0033

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: OA22055-008MS
Batch: 12898
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	5000	5000		5	101	70-130	01/31/2013 0820
tert-Amyl methyl ether (TAME)	ND	250	270		5	109	70-130	01/31/2013 0820
Benzene	40	250	300		5	103	70-130	01/31/2013 0820
tert-Butyl formate (TBF)	ND	1300	270	N	5	22	70-130	01/31/2013 0820
1,2-Dichloroethane	ND	250	220		5	88	70-130	01/31/2013 0820
Diisopropyl ether (IPE)	ND	250	280		5	114	70-130	01/31/2013 0820
3,3-Dimethyl-1-butanol	ND	5000	5200		5	104	70-130	01/31/2013 0820
Ethanol	ND	25000	26000		5	104	70-130	01/31/2013 0820
Ethylbenzene	ND	250	270		5	106	70-130	01/31/2013 0820
Ethyl-tert-butyl ether (ETBE)	ND	250	270		5	110	70-130	01/31/2013 0820
Methyl tertiary butyl ether (MTBE)	ND	250	270		5	110	70-130	01/31/2013 0820
Naphthalene	190	250	460		5	109	70-130	01/31/2013 0820
tert-butyl alcohol (TBA)	ND	5000	5500		5	109	70-130	01/31/2013 0820
Toluene	ND	250	250		5	101	70-130	01/31/2013 0820
Xylenes (total)	81	500	600		5	104	70-130	01/31/2013 0820

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OA22055-008MD
Batch: 12898
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	5000	5000		5	100	0.85	70-130	20	01/31/2013 0841
tert-Amyl methyl ether (TAME)	ND	250	270		5	107	1.8	70-130	20	01/31/2013 0841
Benzene	40	250	300		5	103	0.44	70-130	20	01/31/2013 0841
tert-Butyl formate (TBF)	ND	1300	230	N	5	19	16	70-130	20	01/31/2013 0841
1,2-Dichloroethane	ND	250	210		5	86	2.9	70-130	20	01/31/2013 0841
Diisopropyl ether (IPE)	ND	250	280		5	113	0.84	70-130	20	01/31/2013 0841
3,3-Dimethyl-1-butanol	ND	5000	5200		5	104	0.68	70-130	20	01/31/2013 0841
Ethanol	ND	25000	23000		5	92	12	70-130	20	01/31/2013 0841
Ethylbenzene	ND	250	260		5	105	1.0	70-130	20	01/31/2013 0841
Ethyl-tert-butyl ether (ETBE)	ND	250	270		5	108	1.7	70-130	20	01/31/2013 0841
Methyl tertiary butyl ether (MTBE)	ND	250	270		5	107	2.8	70-130	20	01/31/2013 0841
Naphthalene	190	250	460		5	108	0.47	70-130	20	01/31/2013 0841
tert-butyl alcohol (TBA)	ND	5000	5300		5	106	2.8	70-130	20	01/31/2013 0841
Toluene	ND	250	250		5	102	0.41	70-130	20	01/31/2013 0841
Xylenes (total)	81	500	600		5	104	0.47	70-130	20	01/31/2013 0841

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		81	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ13157-001
Batch: 13157
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/03/2013 1503
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/03/2013 1503
Benzene	ND		1	5.0	0.20	ug/L	02/03/2013 1503
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/03/2013 1503
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	02/03/2013 1503
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	02/03/2013 1503
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/03/2013 1503
Ethanol	ND		1	100	33	ug/L	02/03/2013 1503
Ethylbenzene	ND		1	5.0	1.7	ug/L	02/03/2013 1503
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/03/2013 1503
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	02/03/2013 1503
Naphthalene	ND		1	5.0	1.7	ug/L	02/03/2013 1503
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	02/03/2013 1503
Toluene	ND		1	5.0	1.7	ug/L	02/03/2013 1503
Xylenes (total)	ND		1	5.0	1.7	ug/L	02/03/2013 1503

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ13157-002
Batch: 13157
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	70-130	02/03/2013 1338
tert-Amyl methyl ether (TAME)	50	47		1	95	70-130	02/03/2013 1338
Benzene	50	45		1	90	70-130	02/03/2013 1338
tert-Butyl formate (TBF)	250	230		1	91	70-130	02/03/2013 1338
1,2-Dichloroethane	50	40		1	81	70-130	02/03/2013 1338
Diisopropyl ether (IPE)	50	46		1	92	70-130	02/03/2013 1338
3,3-Dimethyl-1-butanol	1000	800		1	80	70-130	02/03/2013 1338
Ethanol	5000	5200		1	104	70-130	02/03/2013 1338
Ethylbenzene	50	52		1	104	70-130	02/03/2013 1338
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	70-130	02/03/2013 1338
Methyl tertiary butyl ether (MTBE)	50	45		1	90	70-130	02/03/2013 1338
Naphthalene	50	57		1	113	70-130	02/03/2013 1338
tert-butyl alcohol (TBA)	1000	870		1	87	70-130	02/03/2013 1338
Toluene	50	47		1	95	70-130	02/03/2013 1338
Xylenes (total)	100	110		1	109	70-130	02/03/2013 1338

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ13157-003
Batch: 13157
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	0.11	70-130	20	02/03/2013 1359
tert-Amyl methyl ether (TAME)	50	48		1	95	0.69	70-130	20	02/03/2013 1359
Benzene	50	47		1	93	3.1	70-130	20	02/03/2013 1359
tert-Butyl formate (TBF)	250	230		1	92	1.2	70-130	20	02/03/2013 1359
1,2-Dichloroethane	50	41		1	82	1.0	70-130	20	02/03/2013 1359
Diisopropyl ether (IPE)	50	47		1	93	1.3	70-130	20	02/03/2013 1359
3,3-Dimethyl-1-butanol	1000	800		1	80	0.76	70-130	20	02/03/2013 1359
Ethanol	5000	5500		1	110	5.9	70-130	20	02/03/2013 1359
Ethylbenzene	50	54		1	107	2.9	70-130	20	02/03/2013 1359
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	4.5	70-130	20	02/03/2013 1359
Methyl tertiary butyl ether (MTBE)	50	46		1	91	0.84	70-130	20	02/03/2013 1359
Naphthalene	50	57		1	114	0.80	70-130	20	02/03/2013 1359
tert-butyl alcohol (TBA)	1000	870		1	87	0.35	70-130	20	02/03/2013 1359
Toluene	50	48		1	97	2.1	70-130	20	02/03/2013 1359
Xylenes (total)	100	110		1	113	3.2	70-130	20	02/03/2013 1359

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: OQ12473-001
Batch: 12473
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/24/2013 2045

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	01/26/2013 0855

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: OQ12473-002
Batch: 12473
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/24/2013 2045

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	115	60-140	01/26/2013 0917

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		108	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MS

Sample ID: OA22055-001MS
Batch: 12473
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/24/2013 2045

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.27		1	111	60-140	01/26/2013 1601

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		106	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MSD

Sample ID: OA22055-001MD
Batch: 12473
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/24/2013 2045

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.27		1	113	1.4	60-140	20	01/26/2013 1622

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: OQ12536-001
Batch: 12536
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/25/2013 1121

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	01/26/2013 1748

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		103	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: OQ12536-002
Batch: 12536
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/25/2013 1121

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	118	60-140	01/26/2013 1809

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MS

Sample ID: OA22055-004MS
Batch: 12536
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/25/2013 1121

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.25		1	106	60-140	01/26/2013 1852

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MSD

Sample ID: OA22055-004MD
Batch: 12536
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 01/25/2013 1121

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.25		1	106	0.079	60-140	20	01/26/2013 1913

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		101	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number 27284

Client	Report to Contact	Sampler (Printed Name)	Quote No.
BLE	Trevor Beaton	Ryan A. Irizarry	
Address	**Telephone No. / Fax No. / Email**	**Waybill No.**	**Page**
6004 Pondors CT	864 288 1265 / Trevor@Blecorp.com		1 of 2
City / State / Zip Code	**Preservative**		**Number of Containers**
Greenville SC 29615	1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.		**Bottle (See Instructions on back)**
Project Name			**Preservative**
Former Ryder Truck			**Lot No.** 0A12055

Project Number	P.O Number	Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: BTEX, MTBE, Naphthalene	EDB Soil	Remarks / Cooler ID
10/0-19		MW-1	1/21/13	1020	G	V					V	V	
		MW-2		1038									
		MW-2 (DUP)		1040									
		MW-5		1150									
		MW-9		1140									
		MW-10		1310									
		MW-12		1125									
		MW-13		1112									
		MW-14		1056									
		MW-16		900									

Turn Around Time Required (Prior lab approval required for expedited TAT)
☑ Standard ☐ Rush (Please Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler: Ryan A. Irizarry	1/22/13	1145	1. Received by: C Tuck	1/22/13	1145
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: C Tuck	1/22/13	1575	4. Laboratory Received by	1/22/13	15 15

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) ☑ Yes ☐ No ☐ Ice Pack
Receipt Temp. 1-0 °C
Temp. Blank ☐ Y / ☐ N

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number 27283

Client: B|E	Report to Contact: Trevor Denton	Sampler (Printed Name): Ikaw A. Izizarry	Quote No.
Address: 6004 Powders CT	Telephone No. / Fax No. / Email: BC9 2881265 / Trevor@Bleeup.com	Waybill No.	Page: 2 of 2
City: Greenville; State: SC; Zip Code: 29615	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers; Bottle (See Instructions on back); Preservative
Project Name: Former Ryder Truck			Lot No. GA 27053
Project Number: 1010-19	P.O Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: BTEX+MTBE+Naph 8260B	EDB 504	Remarks / Cooler ID
MW-2D	1/21/13	1225	G	✓					✓	✓	
FB-1	1/21/13	1240	↓					✓	↓	↓	
TB								✓			

Turn Around Time Required (Prior lab approval required for expedited TAT): ☑ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification: ☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

	Relinquished by / Sampler	Date	Time	Received by	Date	Time
1	Ikaw A. Izizarry	1/22/13	1145		1/22/13	1145
2						
3						
4		1/22/13	1515	Laboratory Received by	1/22/13	1515

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on Ice (Check) ☐ Yes ☐ No ☐ Ice Pack — Receipt Temp. 1.0 °C — Temp. Blank ☐ Y / ☐ N

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 9

Page 1 of 1
Replaces Date: 05/06/11
Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: ECL 1/22/13 Lot #: OA 22055

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐		2. If custody seals were present, were they intact and unbroken?
Cooler ID/temperature upon receipt 1-U °C / °C / °C / °C Method: ☐ Temperature Blank ☑ Against Bottles Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed?
Yes ☑	No ☐		7. Was collection date & time listed?
Yes ☑	No ☐		8. Were tests to be performed listed on the COC?
Yes ☑	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		12. Was adequate sample volume available?
Yes ☑	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		14. Were any samples containers missing?
Yes ☐	No ☑		15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s)_____ were received with bubbles >6 mm in diameter.

Sample(s)_____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

APPENDIX D

CONTRACTOR CHECKLIST

Contractor Checklist

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

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

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format?			✓
33	Has the potentiometric data for the site been provided in tabular format?	✓		
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?	✓		
40	Has the site potentiometric map been provided?	✓		
41	Have the geologic cross-sections been provided?			✓
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?			✓
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements?	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements?			✓
47	Have the soil boring/field screening logs been provided?			✓
48	Have the well completion logs and SCDHEC Form 1903 been provided?			✓
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			✓
50	Have the disposal manifests been provided?	✓		
51	Has a copy of the local zoning regulations been provided?			✓
52	Has all fate and transport modeling been provided?			
53	Have copies of all access agreements obtained by the contractor been provided?			✓
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?

Briney, Stephanie M. <brineysm@dhec.sc.gov>

UST Permit # 11929 Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC 29607

1 message

Briney, Stephanie M. <brineysm@dhec.sc.gov> Wed, May 22, 2013 at 1:45 PM
To: ngleason@downeybrand.com

Nicole,

In accordance with your request February 25, 2013 I have enclosed a copy of the monitoring report submitted by Bunnell-Lammons Engineering, Inc on May 2, 2013. The next scope of work is Aggressive Fluid Vapor Recovery (AFVR) events to remove free product at the site. Please call me if you have any questions.

Please note that we will be moving to a new office building the first week of June.

Stephanie Briney
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

PH: (803) 896-6323
Fax: (803) 896-6245

11929 Monitoring Report received 5-2-13.pdf
6850K

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

MAY 28 2013

Re: **Aggressive Fluid and Vapor Recovery Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit # 11929; CA# 46042
Release #2 reported February 25, 1997
Monitoring Report received May 2, 2013
Greenville County

Dear Ms. Mumbauer:

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 Bunnell-Lammons Engineering, Inc. as your contractor. The next appropriate scope of work is to continue aggressive fluid and vapor recovery (AFVR) events to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). Please have your contractor conduct four events on MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The first event should be conducted on MW-4 and MW-17. The second event should be conducted on MW-6 and MW-17. The third event should be conducted on MW-6, MW-15, and MW-18. The fourth event should be conducted on MW-3R and MW-18. The events should be spaced a minimum of fifteen days apart to allow equilibrium conditions to reestablish, and must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Cost Agreement # 46042 has been approved in the amount shown on the enclosed cost agreement form for the AFVR events. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

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

On all correspondence concerning this facility, please reference UST Permit #11929. If there are any questions concerning this project, feel free to 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 form

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc)
Technical File (w/enc)

Approved Cost Agreement 46042

Facility: 11929 FORMER RYDER TERMINAL
BRINEYSM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	4.0000	575.00	2,300.00
		B	PERSONNEL	4.0000	290.00	1,160.00
17 DISPOSAL						
		A	WASTEWATER	10,000.0000	0.80	8,000.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	24,580.00	3,687.00
23 EFR						
		A	8 HOUR EVENT	4.0000	3,000.00	12,000.00
		C	OFF GAS TREATMENT	32.0000	35.00	1,120.00
				Total Amount		28,267.00

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

Former Ryder Terminal
10 Woods Lake Drive
Greenville, South Carolina
UST Permit # 11929; Cost Agreement # 46042

Prepared For:

Ms. Ingrid Auten
c/o Ms. Annie Mumbauer
BB&T Wealth Management
Post Office Box 408
Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

September 12, 2013

BLE Project Number J13-1010-20

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

September 12, 2013

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Ms. Stephanie Briney
Hydrogeologist

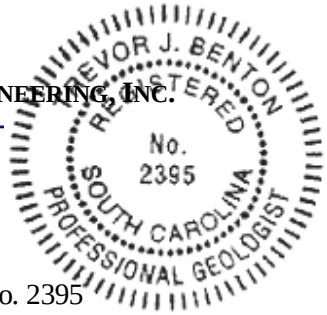
Subject: **Report of Multiple Aggressive Fluid Vapor Recovery Events**
Former Ryder Terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929; CA #46042
BLE Project No. J13-1010-20

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed a series of four Aggressive Fluid Vapor Recovery (AFVR) events at the subject site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) directive dated May 28, 2013. The results of our activities are provided herein.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.



Trevor J. Benton, P.G.
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cc: Ms. Ingrid Auten, c/o Annie Mumbauer, BB&T Wealth Management, PO Box 408, Greenville, SC 29602

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PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four underground storage tanks (USTs) were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments (ESAs) of the site. The Phase II ESA detected soil and groundwater contamination from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2012 by BLE to define the extent of petroleum contamination and to remove free-phase petroleum product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

During the January 2013 sampling event, free-phase petroleum product free-phase petroleum product was detected in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. In an effort to remove free-phase product from these wells, the SCDHEC has directed a series of four AFVR events be performed at the site. The results of these AFVR events are provided herein.

AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

On June 12, 2013, July 11, 2013, August 1, 2013, and August 12, 2013, BLE personnel mobilized to the site to perform four AFVR events on monitoring well clusters MW-4 and MW-17 (AFVR Event #1), MW-6 and MW-17 (AFVR Event # 2), MW-6, MW-15, and MW-18 (AFVR Event #3), and MW-3R and MW-18 (AFVR Event #4). A hydrogeologist from BLE's Greenville, South Carolina office was on-site for observation and monitoring during each event. The AFVR events

were performed by Landprobe Drilling Services (Landprobe) of Greenville, South Carolina. A site and well location plan is shown as Figure 2. The results of each AFVR event are provided below.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – JUNE 12, 2013

On June 12, 2013, the first 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122 and approximately 1.36-feet (MW-4) and 0.01-feet (MW-17) of free-phase petroleum product was detected (Figure 2). Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-5, MW-6, and MW-16 were measured (feet below top of PVC casing (btoc)) and recorded on Table 1.

The AFVR event was initiated at 0745 and concluded at 1545. The general weather conditions observed during this period of time were clear skies; winds varied between 0 to 12 miles per hour (mph) with an ambient temperature between 73º and 90º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 27 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in MW-5, MW-6, and MW-16 to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a granular activated carbon (GAC) unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 Photo Ionization Detector (PID) and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 1A.

At the completion of the AFVR event, a total volume of 194 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately one-gallon of free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to

separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.09 pounds of gasoline vapor which is equivalent to approximately 0.01 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 1A.

Following the conclusion of the event, approximately 0.01-feet and 0.14-feet of free-phase petroleum product was detected in AFVR monitoring wells MW-4 and MW-17, respectively. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – JULY 11, 2013

On July 11, 2013, the second 8-hour AFVR event was conducted in monitoring wells MW-6 and MW-17. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122 and approximately 1.86-feet (MW-6) and 0.20-feet (MW-17) of free-phase petroleum product was detected (Figure 2). Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-4, MW-5, and MW-18 were measured (feet btoc) and recorded on Table 2.

The AFVR event was initiated at 0800 and concluded at 1600. The general weather conditions observed during this period of time were mostly cloudy to overcast; winds varied between 0 to 8 mph with an ambient temperature between 75º and 82º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 29 inches of mercury was applied to MW-6 and MW-17. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in monitoring wells MW-4, MW-5, and MW-18 to evaluate drawdown. Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30

minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 2A.

At the completion of the AFVR event, a total volume of 194 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 2.5-gallons of free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.60 pounds of gasoline vapor which is equivalent to approximately 0.10 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 2A.

Following the conclusion of the event, approximately 0.79-feet and 1.13-feet of free-phase petroleum product was detected in AFVR monitoring wells MW-6 and MW-17, respectively. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 – AUGUST 1, 2013

On August 1, 2013, the third 8-hour AFVR event was conducted in monitoring wells MW-6, MW-15, and MW-18. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122 and approximately 0.88-feet (MW-6) and 0.01-feet (MW-18) of free-phase petroleum product was detected (Figure 2). No free-phase petroleum product was detected in monitoring well MW-15. Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-5 and MW-17 were measured (feet btoc) and recorded on Table 3.

The AFVR event was initiated at 0730 and concluded at 1530. The general weather conditions observed during this period of time were overcast with periods of rain; winds varied between 0 to 8

mph with an ambient temperature between 73º and 84º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 20 and 27 inches of mercury was applied to MW-6, MW-15, and MW-18. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in wells MW-5 and MW-17 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 3A.

At the completion of the AFVR event, a total volume of 725 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 0.5-gallons of free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.56 pounds of gasoline vapor which is equivalent to approximately 0.09 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3A.

Following the conclusion of the event, approximately 0.01-feet and 0.02-feet of free-phase petroleum product was detected in AFVR monitoring wells MW-6 and MW-18, respectively. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 3.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 – AUGUST 12, 2013

On August 12, 2013, the fourth 8-hour AFVR event was conducted in monitoring wells MW-3R and MW-18. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122 and approximately 0.01-feet of free-phase petroleum product was detected in monitoring well MW-3R (Figure 2). No free-phase petroleum product was detected in monitoring well MW-18. Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-2 and MW-12 were measured (feet btoc) and recorded on Table 4.

The AFVR event was initiated at 0745 and concluded at 1545. The general weather conditions observed during this period of time were clear to partly cloudy; winds varied between 0 to 9 mph with an ambient temperature between 75º and 91º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 20.5 to 22 inches of mercury was applied to MW-3R and MW-18. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in wells MW-2 and MW-12 to evaluate drawdown. Gauging data observed during the event is shown in Table 4.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 4A.

At the completion of the AFVR event, a total volume of 1,079 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. No free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.45 pounds of gasoline vapor which is equivalent to approximately 0.07 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

Following the conclusion of the event, free-phase petroleum product was not detected in the source area monitoring wells. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 4.

CONCLUSIONS AND RECOMMENDATIONS

BLE personnel remobilized to the site on August 30, 2013 to gauge monitoring wells MW-2, MW-3R, MW-4, MW-5, MW-6, MW-12, MW-15, MW-16, MW-17, and MW-18 for free-phase petroleum product. Approximately 0.72-feet (MW-6), 0.01-feet (MW-15), 0.18-feet (MW-17), and 0.01-feet (MW-18) of free-phase petroleum product was detected in the monitoring wells. No free-phase petroleum product was observed in the remaining wells that were gauged (MW-2, MW-3R, MW-4, MW-5, MW-12, and MW-16). Post AFVR free-phase petroleum product measurements are shown in Table 5.

A combined total volume of 2,192-gallons of petroleum-impacted groundwater was recovered during the current scope of work. Of this total, approximately 4.27 gallons of petroleum free-product (liquid and vapor-phase) was calculated to have been recovered.

The AFVR events performed during this scope of work have been successful at reducing free-phase petroleum product at the site. As the next scope of work, we recommend a series of four additional AFVR events be conducted on monitoring wells MW-6, MW-15, MW-17, and MW-18 in a continued effort to remove free-phase product from the site. Upon completion of the AFVR events, we recommend a comprehensive groundwater sampling event of all monitoring wells associated with the site be conducted to evaluate contaminant concentration trends. The subject site has not been sampled since January 2013.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten, c/o Annie Mumbauer, BB&T Wealth Management. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

AFVR Gauging Data - June 12, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

		Monitoring Well Gauging Data							Air Emissions	
		Vacuum Readings (In. of Hg)		Depth to Free Product/Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Date	**Time**	**11929-MW04**	**11929-MW17**	**11929-MW04**	**11929-MW05**	**11929-MW06**	**11929-MW16**	**11929-MW17**		
06/12/13	0745	26.0	26.0	22.70 / 24.06	22.02	23.05 / 23.12	22.10	22.62 / 22.63	266	10.8
06/12/13	0815	26.0	26.0	AFVR EVENT	22.02	23.28 / 23.24	22.16	AFVR EVENT	284	23.0
06/12/13	0845	27.0	27.0		22.02	23.51 / 25.35	22.22		288	25.8
06/12/13	0915	27.0	27.0		22.04	23.57 / 24.43	22.27		202	18.7
06/12/13	0945	27.0	27.0		22.05	23.62 / 25.50	22.31		230	19.4
06/12/13	1015	27.0	27.0		22.05	23.67 / 25.58	22.34		244	20.2
06/12/13	1045	27.0	27.0		22.05	23.72 / 25.65	22.36		371	26.4
06/12/13	1115	27.0	27.0		22.05	23.76 / 25.69	22.40		227	20.2
06/12/13	1145	27.0	27.0		22.05	23.80 / 25.73	22.43		229	21.0
06/12/13	1215	27.0	27.0		22.05	23.83 / 25.79	22.47		426	29.3
06/12/13	1245	27.0	27.0		22.05	23.86 / 25.85	22.50		463	34.2
06/12/13	1315	27.0	27.0		22.05	23.89 / 25.89	22.52		419	32.2
06/12/13	1345	27.0	27.0		22.05	23.91 / 25.92	22.53		441	31.5
06/12/13	1415	27.0	27.0		22.05	23.94 / 25.99	22.53		407	31.0
06/12/13	1445	27.0	27.0		22.05	23.96 / 26.05	22.53		437	34.7
06/12/13	1515	27.0	27.0		22.05	23.98 / 26.06	22.53		440	36.4
06/12/13	1545	27.0	27.0	24.22 / 24.23	22.05	24.00 / 26.04	22.53	26.51 / 26.65	446	35.6
		Water Level Change (feet)		0.17	0.03	2.92	0.43	4.02		
		Initial FP thickness (feet)		**1.36**	NFP	**0.07**	NFP	**0.01**		
		Final FP thickness (feet)		**0.01**	NFP	**2.04**	NFP	**0.14**		

NOTES:

AFVR event performed on June 12, 2013.

1.36, 0.07, and 0.01.-feet of free product was detected in 11929-MW04, -MW06, and -MW17, respectively, prior to initiating the AFVR event.

0.01, 2.04, and 0.14-feet of free product was detected in 11929- MW04, -MW06, and -MW17, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free-Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free-Product detected

Prepared By: DRM
Checked By: RAD

TABLE 1A

AFVR Emissions Field Data - June 12, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

WELL ID #: 11929-MW04 & 11929-MW17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	(gal/hr)
6/12/2013	0745	27.0	77	3	80	78.3	266	0:00	3.41	288.48	1,153.91	4	575.76	3.59E-05	0.01	0.01	0.00
6/12/2013	0815	26.5	77	3	80	76.8	284	0:30	3.41	308.00	1,231.99	4	614.72	3.84E-05	0.01	0.01	0.00
6/12/2013	0845	27.0	77	3	92	82.8	288	1:00	3.33	312.34	1,249.34	4	623.37	3.89E-05	0.01	0.01	0.00
6/12/2013	0915	27.0	77	3	100	85.5	202	1:30	3.29	219.07	876.28	4	437.23	2.73E-05	0.01	0.01	0.00
6/12/2013	0945	27.0	97	3	102	87.7	230	2:00	4.12	249.43	997.74	4	497.83	3.11E-05	0.01	0.01	0.00
6/12/2013	1015	27.0	97	3	104	81.5	244	2:30	4.11	264.62	1,058.47	4	528.14	3.30E-05	0.01	0.01	0.00
6/12/2013	1045	27.0	97	3	110	76.8	371	3:00	4.07	402.35	1,609.40	4	803.03	5.01E-05	0.01	0.01	0.00
6/12/2013	1115	27.0	175	3	110	83.1	227	3:30	7.34	246.18	984.73	4	491.34	3.07E-05	0.01	0.02	0.00
6/12/2013	1145	27.0	138	3	110	83.0	229	4:00	5.79	248.35	993.40	4	495.67	3.09E-05	0.01	0.01	0.00
6/12/2013	1215	27.0	175	3	118	84.6	426	4:30	7.24	462.00	1,847.99	4	922.07	5.76E-05	0.02	0.03	0.00
6/12/2013	1245	27.0	135	3	118	77.2	463	5:00	5.58	502.12	2,008.49	4	1,002.16	6.26E-05	0.02	0.02	0.00
6/12/2013	1315	27.0	97	3	118	84.3	419	5:30	4.01	454.41	1,817.62	4	906.92	5.66E-05	0.01	0.02	0.00
6/12/2013	1345	27.0	97	3	118	83.4	441	6:00	4.01	478.26	1,913.06	4	954.54	5.96E-05	0.01	0.02	0.00
6/12/2013	1415	27.0	118	3	118	82.6	407	6:30	4.88	441.39	1,765.56	4	880.95	5.50E-05	0.02	0.02	0.00
6/12/2013	1445	27.0	77	3	118	81.7	437	7:00	3.18	473.93	1,895.70	4	945.88	5.91E-05	0.01	0.01	0.00
6/12/2013	1515	27.0	97	3	120	80.2	440	7:30	4.00	477.18	1,908.72	4	952.38	5.95E-05	0.01	0.02	0.00
6/12/2013	1545	27.0	77	3	120	79.6	446	8:00	3.17	483.69	1,934.75	4	965.36	6.03E-05	0.01	0.01	0.00
Average Values		27.0	105	3	108.0	81.7	342		4.41	371.28	1,485.13	4	741.02	4.63E-05	0.01	0.01	0.00
B_{ws}	0.078	B_{wsw}	0.047														

Total Pounds of Carbon Recovered as Emissions: 0.08

Total Pounds of Gasoline Recovered as Emissions: 0.09

Total Gallons of Gasoline Recovered as Emissions: 0.01

NOTES:

AFVR event performed on June 12, 2013.
Vacuum applied to monitoring well 11929-MW04 and 11929-MW17.
0.01, 2.04, and 0.14-feet of free product was detected in 11929- MW04, -MW06, and -MW17, respectively, at the conclusion of the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm}- mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By: RAD

TABLE 2

AFVR Gauging Data - July 11, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

		Monitoring Well Gauging Data							Air Emissions	
		Vacuum Readings (In. of Hg)		Depth to Free Product/Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW06	11929-MW17	11929-MW04	11929-MW05	11929-MW06	11929-MW17	11929-MW18		
07/11/13	0800	26.0	26.0	21.67	20.94	22.55 / 24.41	22.09 / 22.29	22.06 / 22.15	287	24.6
07/11/13	0830	26.0	26.0	21.68	20.94	AFVR EVENT	AFVR EVENT	22.10 / 22.25	298	26.8
07/11/13	0900	26.0	26.0	21.69	20.40			22.16 / 22.34	310	29.0
07/11/13	0930	26.0	26.0	21.71	20.96			22.22 / 22.40	210	19.5
07/11/13	1000	26.0	26.0	21.75	20.96			22.26 / 22.44	189	17.4
07/11/13	1030	26.0	26.0	21.75	20.97			22.29 / 22.52	192	18.7
07/11/13	1100	26.0	26.0	21.76	20.97			22.33 / 22.60	160	15.1
07/11/13	1130	26.0	26.0	21.78	20.97			22.35 / 22.62	220	19.4
07/11/13	1200	26.0	26.0	21.79	20.97			22.35 / 22.70	316	25.9
07/11/13	1230	26.0	26.0	21.79	20.97			22.35 / 22.70	348	20.3
07/11/13	1300	26.0	26.0	21.79	20.97			22.37 / 22.74	384	26.4
07/11/13	1330	26.0	26.0	21.79	20.97			22.39 / 22.77	333	23.6
07/11/13	1400	26.0	26.0	21.79	20.97			22.39 / 22.77	319	22.4
07/11/13	1430	26.0	26.0	21.81	20.97			22.39 / 22.77	348	23.5
07/11/13	1500	26.0	26.0	21.82	20.97			22.39 / 22.77	362	24.5
07/11/13	1530	26.0	26.0	21.83	20.97			22.39 / 22.77	312	26.2
07/11/13	1600	20.0	26.0	21.85	20.95	26.01 / 26.80	25.67 / 26.80	22.29 / 24.70	330	27.5
		Water Level Change (feet)		0.18	0.01	2.39	4.51	2.55		
		Initial FP thickness (feet)		NFP	NFP	**1.86**	**0.20**	**0.09**		
		Final FP thickness (feet)		NFP	NFP	**0.79**	**1.13**	**2.41**		

NOTES:

AFVR event performed on July 11, 2013.

1.86, 0.20, and 0.09-feet of free product was detected in 11929-MW06, -MW17 and -MW18, respectively, prior to initiating the AFVR event.

0.79, 1.13, and 2.41-feet of free product was detected in 11929-MW06,. -MW17, and -MW18, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free Product detected

Prepared By: DRM
Checked By: RAD

TABLE 2A

AFVR Emissions Field Data - July 11, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

WELL ID #: 11929-MW06 & 11929-MW17

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	(gal/hr)
7/11/2013	0800	27.0	877	3	80	86.9	287	0:00	38.46	314.07	1,256.30	4	626.84	3.91E-05	0.09	0.10	0.02
7/11/2013	0830	25.0	506	3	120	90.6	298	0:30	20.66	326.11	1,304.45	4	650.87	4.06E-05	0.05	0.06	0.01
7/11/2013	0900	25.0	667	3	120	90.2	310	1:00	27.24	339.24	1,356.98	4	677.08	4.23E-05	0.07	0.08	0.01
7/11/2013	0930	27.0	687	3	120	84.1	210	1:30	28.05	229.81	919.24	4	458.67	2.86E-05	0.05	0.06	0.01
7/11/2013	1000	27.0	664	3	110	87.4	189	2:00	27.59	206.83	827.32	4	412.80	2.58E-05	0.04	0.05	0.01
7/11/2013	1030	27.0	654	3	110	86.0	192	2:30	27.17	210.11	840.45	4	419.35	2.62E-05	0.04	0.05	0.01
7/11/2013	1100	27.0	666	3	110	86.0	160	3:00	27.67	175.09	700.38	4	349.46	2.18E-05	0.04	0.04	0.01
7/11/2013	1130	27.0	680	3	110	88.3	220	3:30	28.25	240.75	963.02	4	480.51	3.00E-05	0.05	0.06	0.01
7/11/2013	1200	27.0	658	3	110	85.8	316	4:00	27.34	345.81	1,383.24	4	690.18	4.31E-05	0.07	0.08	0.01
7/11/2013	1230	27.0	660	3	110	86.0	348	4:30	27.42	380.83	1,523.32	4	760.08	4.75E-05	0.08	0.09	0.01
7/11/2013	1300	27.0	720	3	110	86.0	384	5:00	29.92	420.23	1,680.90	4	838.70	5.24E-05	0.09	0.11	0.02
7/11/2013	1330	27.0	664	3	110	82.0	333	5:30	27.59	364.41	1,457.66	4	727.31	4.54E-05	0.08	0.09	0.01
7/11/2013	1400	27.0	660	3	110	80.9	319	6:00	27.42	349.09	1,396.37	4	696.74	4.35E-05	0.07	0.08	0.01
7/11/2013	1430	27.0	602	3	110	86.0	348	6:30	25.01	380.83	1,523.32	4	760.08	4.75E-05	0.07	0.08	0.01
7/11/2013	1500	27.0	662	3	110	84.5	362	7:00	27.51	396.15	1,584.60	4	790.65	4.94E-05	0.08	0.09	0.02
7/11/2013	1530	27.0	560	3	110	85.6	312	7:30	23.27	341.43	1,365.73	4	681.45	4.25E-05	0.06	0.07	0.01
7/11/2013	1600	27.0	620	3	110	84.2	330	8:00	25.76	361.13	1,444.52	4	720.76	4.50E-05	0.07	0.08	0.01
Average Values		26.8	659	3	110.0	85.9	289		27.43	316.59	1,266.34	4	631.86	3.94E-05	0.06	0.08	0.01
B_{ws}	0.086	B_{wsw}	0.052														

Total Pounds of Carbon Recovered as Emissions: 0.52

Total Pounds of Gasoline Recovered as Emissions: 0.60

Total Gallons of Gasoline Recovered as Emissions: 0.10

NOTES:

AFVR event performed on July 11, 2013.
Vacuum applied to monitoring wells 11929-MW06 and 11929-MW17.
0.79, 1.13, and 2.41-feet of free product was detected in 11929-MW06,. -MW17, and -MW18, respectively, at the conclusion of the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By: RAD

TABLE 3

AFVR Gauging Data - August 1, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

		Monitoring Well Gauging Data								Air Emissions	
		Vacuum Readings (In. of Hg)			Depth to Free Product/Water (feet BTOC)					Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW06	11929-MW15	11929-MW18	11929-MW05	11929-MW06	11929-MW15	11929-MW17	11929-MW18		
08/01/13	0730	27.0	27.0	27.0	19.65	21.73 / 22.61	19.84	21.05 / 21.25	21.19 / 21.20	380	34.0
08/01/13	0800	27.0	27.0	27.0	19.75	AFVR EVENT	AFVR EVENT	21.10 / 21.31	AFVR EVENT	334	32.6
08/01/13	0830	27.0	27.0	27.0	19.75			21.17 / 21.37		350	41.0
08/01/13	0900	27.0	27.0	27.0	19.75			21.22 / 21.42		340	38.0
08/01/13	0930	27.0	27.0	27.0	19.75			21.29 / 21.49		336	44.0
08/01/13	1000	20.0	23.0	20.0	19.77			21.36 / 21.61		349	46.0
08/01/13	1030	20.0	23.0	20.0	19.80			21.61 / 21.92		433	50.0
08/01/13	1100	20.0	23.0	20.0	19.90			21.76 / 22.10		387	42.8
08/01/13	1130	20.0	23.0	20.0	20.02			21.85 / 22.15		685	74.6
08/01/13	1200	20.0	23.0	20.0	20.07			21.89 / 22.15		654	71.2
08/01/13	1230	20.0	23.0	20.0	20.15			21.92 / 22.18		668	72.9
08/01/13	1300	20.0	23.0	20.0	20.16			22.96 / 22.28		454	56.9
08/01/13	1330	20.0	23.0	20.0	20.22			22.01 / 22.31		483	57.2
08/01/13	1400	20.0	23.0	20.0	20.28			22.02 / 22.35		498	59.3
08/01/13	1430	20.0	23.0	20.0	20.31			22.02 / 22.369		375	49.0
08/01/13	1500	20.0	23.0	20.0	20.35			22.05 / 22.40		464	58.3
08/01/13	1530	20.0	23.0	20.0	20.39	25.75 / 25.76	22.11	21.98 / 22.38	22.00 / 22.02	494	59.5
		Water Level Change (feet)			0.74	3.15	2.27	1.15	0.82		
		Initial FP thickness (feet)			NFP	**0.88**	NFP	**0.20**	**0.01**		
		Final FP thickness (feet)			NFP	**0.01**	NFP	**0.40**	**0.02**		

NOTES:

AFVR event performed on August 1, 2013.

0.88, 0.20, and 0.01-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, prior to initiating the AFVR event.

0.01, 0.40, and 0.02-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free Product detected

Prepared By: DRM
Checked By: RAD

TABLE 3A

AFVR Emissions Field Data - August 1, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

WELL ID #: 11929-MW06, 11929-MW-15, & 11929-MW18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	(gal/hr)
8/1/2013	0730	27.0	116	3	90	87.8	380	0:00	4.88	425.89	1,703.57	4	850.02	5.31E-05	0.02	0.02	0.00
8/1/2013	0800	27.0	97	3	100	89.4	334	0:30	4.01	374.34	1,497.35	4	747.12	4.66E-05	0.01	0.01	0.00
8/1/2013	0830	27.0	97	3	106	86.2	350	1:00	3.96	392.27	1,569.08	4	782.91	4.89E-05	0.01	0.01	0.00
8/1/2013	0900	27.0	77	3	110	84.6	340	1:30	3.12	381.06	1,524.25	4	760.54	4.75E-05	0.01	0.01	0.00
8/1/2013	0930	27.0	116	3	118	86.1	336	2:00	4.64	376.58	1,506.31	4	751.59	4.69E-05	0.01	0.02	0.00
8/1/2013	1000	25.0	487	3	120	89.3	349	2:30	19.42	391.15	1,564.59	4	780.67	4.87E-05	0.06	0.07	0.01
8/1/2013	1030	25.0	487	3	120	87.8	433	3:00	19.42	485.29	1,941.17	4	968.57	6.05E-05	0.07	0.08	0.01
8/1/2013	1100	25.0	429	3	120	90.7	387	3:30	17.10	433.74	1,734.95	4	865.67	5.40E-05	0.06	0.06	0.01
8/1/2013	1130	25.0	623	3	122	87.9	685	4:00	24.75	767.73	3,070.91	4	1,532.26	9.57E-05	0.14	0.16	0.03
8/1/2013	1200	25.0	799	3	122	87.7	654	4:30	31.75	732.98	2,931.93	4	1,462.92	9.13E-05	0.17	0.20	0.03
8/1/2013	1230	25.0	760	3	124	87.7	668	5:00	30.09	748.67	2,994.70	4	1,494.24	9.33E-05	0.17	0.19	0.03
8/1/2013	1300	25.0	741	3	126	87.7	454	5:30	29.24	508.83	2,035.32	4	1,015.54	6.34E-05	0.11	0.13	0.02
8/1/2013	1330	25.0	646	3	122	85.2	483	6:00	25.67	541.33	2,165.33	4	1,080.41	6.75E-05	0.10	0.12	0.02
8/1/2013	1400	25.0	701	3	122	83.7	498	6:30	27.85	558.14	2,232.57	4	1,113.97	6.95E-05	0.12	0.13	0.02
8/1/2013	1430	25.0	779	3	122	82.4	375	7:00	30.95	420.29	1,681.15	4	838.83	5.24E-05	0.10	0.11	0.02
8/1/2013	1500	25.0	760	3	122	80.7	464	7:30	30.20	520.04	2,080.15	4	1,037.91	6.48E-05	0.12	0.14	0.02
8/1/2013	1530	25.0	740	3	122	84.3	494	8:00	29.40	553.66	2,214.64	4	1,105.02	6.90E-05	0.12	0.14	0.02
Average Values		25.6	497	3	116.9	86.4	452		19.79	506.59	2,026.35	4	1,011.07	6.31E-05	0.07	0.09	0.01
B_{ws}	0.108	B_{wsw}	0.065														

Total Pounds of Carbon Recovered as Emissions: 0.49

Total Pounds of Gasoline Recovered as Emissions: 0.56

Total Gallons of Gasoline Recovered as Emissions: 0.09

NOTES:

AFVR event performed on August 1, 2013.
Vacuum applied to monitoring well 11929-MW06, 11929-MW15, and 11929-MW18.
0.01, 0.40, and 0.02-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, at the conclusion of the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm}- mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By: RAD

TABLE 4

AFVR Gauging Data - August 12, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

		Monitoring Well Gauging Data						Air Emissions	
		Vacuum Readings (In. of Hg)		Depth to Free Product/Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW03R	11929-MW18	11929-MW02	11929-MW03R	11929-MW12	11929-MW18		
08/12/13	0745	22.0	20.5	19.51	20.88 / 20.89	22.24	20.39	182	0.4
08/12/13	0815	20.5	21.0	19.62	AFVR EVENT	22.42	AFVR EVENT	210	1.5
08/12/13	0845	20.5	21.0	19.74		22.58		579	3.2
08/12/13	0915	20.5	21.5	19.80		22.76		621	14.3
08/12/13	0945	20.5	21.5	19.95		22.88		680	15.5
08/12/13	1015	21.0	21.5	20.05		23.03		635	14.3
08/12/13	1045	21.0	21.0	20.18		23.16		745	10.5
08/12/13	1115	21.5	21.0	20.40		23.29		948	12.0
08/12/13	1145	21.5	21.0	20.53		23.38		669	14.3
08/12/13	1215	21.5	21.0	20.62		23.49		563	15.4
08/12/13	1245	21.0	20.5	20.68		23.62		684	16.2
08/12/13	1315	21.0	21.0	20.74		23.81		600	15.3
08/12/13	1345	21.0	20.5	20.84		23.92		649	5.0
08/12/13	1415	21.0	20.5	20.98		24.07		567	17.6
08/12/13	1445	21.0	20.5	21.13		24.16		966	20.5
08/12/13	1515	21.0	20.5	21.22		24.28		687	17.9
08/12/13	1545	21.0	20.5	21.28	24.45	24.33	26.86	783	21.2
		Water Level Change (feet)		1.77	3.56	2.09	6.47		
		Initial FP thickness (feet)		NFP	**0.01**	NFP	NFP		
		Final FP thickness (feet)		NFP	NFP	NFP	NFP		

NOTES:

AFVR event performed on August 12, 2013.

0.01-feet of free product was detected in 11929-MW03R prior to initiating the AFVR event.

No free-product was detected in 11929-MW02, -MW03R, -MW12, or -MW18 at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free Product detected

Prepared By: DRM
Checked By: RAD

TABLE 4A

AFVR Emissions Field Data - August 12, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

WELL ID #: 11929-MW03R & 11929-MW18

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	(gal/hr)
8/12/2013	0745	26.0	233	3	82	88.0	182	0:00	9.48	214.39	857.55	4	427.88	2.67E-05	0.02	0.02	0.00
8/12/2013	0815	26.0	175	3	100	86.7	210	0:30	6.89	246.24	984.96	4	491.45	3.07E-05	0.01	0.01	0.00
8/12/2013	0845	26.0	194	3	120	87.4	579	1:00	7.38	680.89	2,723.55	4	1,358.95	8.48E-05	0.04	0.04	0.01
8/12/2013	0915	26.0	232	3	122	87.1	621	1:30	8.79	729.90	2,919.61	4	1,456.77	9.09E-05	0.05	0.06	0.01
8/12/2013	0945	26.0	232	3	124	86.3	680	2:00	8.76	798.66	3,194.64	4	1,594.00	9.95E-05	0.05	0.06	0.01
8/12/2013	1015	26.5	175	3	130	88.0	635	2:30	6.54	746.12	2,984.49	4	1,489.14	9.30E-05	0.04	0.04	0.01
8/12/2013	1045	26.5	292	3	130	87.1	745	3:00	10.91	875.65	3,502.59	4	1,747.65	1.09E-04	0.07	0.08	0.01
8/12/2013	1115	26.5	389	3	130	82.8	948	3:30	14.54	1,114.25	4,456.98	4	2,223.86	1.39E-04	0.12	0.14	0.02
8/12/2013	1145	26.5	272	3	131	86.8	669	4:00	10.15	785.73	3,142.92	4	1,568.20	9.79E-05	0.06	0.07	0.01
8/12/2013	1215	26.5	331	3	131	81.9	563	4:30	12.35	661.14	2,644.57	4	1,319.54	8.24E-05	0.06	0.07	0.01
8/12/2013	1245	26.5	370	3	136	82.6	684	5:00	13.69	803.95	3,215.80	4	1,604.56	1.00E-04	0.08	0.10	0.02
8/12/2013	1315	26.5	389	3	138	88.1	600	5:30	14.34	705.22	2,820.87	4	1,407.51	8.79E-05	0.08	0.09	0.01
8/12/2013	1345	26.5	370	3	137	82.1	649	6:00	13.67	762.81	3,051.25	4	1,522.45	9.50E-05	0.08	0.09	0.01
8/12/2013	1415	26.5	350	3	140	89.7	567	6:30	12.86	666.43	2,665.73	4	1,330.09	8.30E-05	0.06	0.07	0.01
8/12/2013	1445	26.5	350	3	138	86.1	966	7:00	12.91	1,135.40	4,541.61	4	2,266.09	1.41E-04	0.11	0.13	0.02
8/12/2013	1515	26.5	292	3	138	81.5	687	7:30	10.77	807.48	3,229.90	4	1,611.60	1.01E-04	0.07	0.08	0.01
8/12/2013	1545	26.5	262	3	140	86.4	783	8:00	9.63	920.31	3,681.24	4	1,836.80	1.15E-04	0.07	0.08	0.01
Average Values		26.4	289	3	127.5	85.8	633		10.80	744.39	2,977.54	4	1,485.68	9.28E-05	0.06	0.07	0.01
B_{ws}	0.149	B_{wsw}	0.09														

Total Pounds of Carbon Recovered as Emissions: 0.39

Total Pounds of Gasoline Recovered as Emissions: 0.45

Total Gallons of Gasoline Recovered as Emissions: 0.07

NOTES:

AFVR event performed on August 12, 2013.
Vacuum applied to monitoring well 11929-MW06, 11929-MW15, and 11929-MW18.
No free-product was detected in 11929-MW02, -MW03R, -MW12, or -MW18 at the conclusion of the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration
PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By: RAD

TABLE 5

Post AFVR Gauging Data - August 30, 2013
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #46042
BLE Project Number J13-1010-20

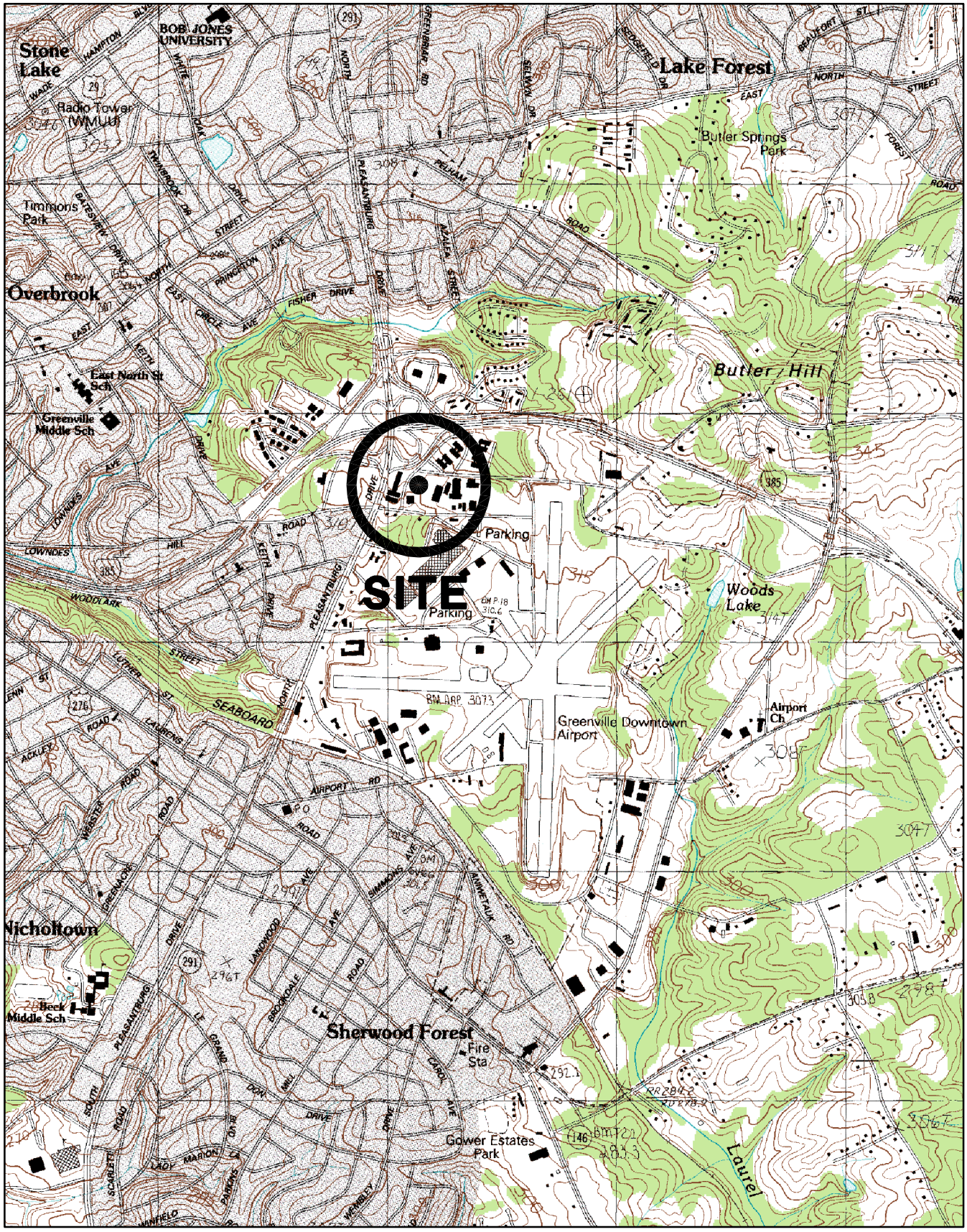
Well ID	11929-MW02	11929-MW03R	11929-MW04	11929-MW05	11929-MW06	11929-MW12
Depth to Free-Product / Groundwater	NFP / 20.37	NFP / 20.15	NFP / 19.91	NFP / 19.08	21.26 / 21.98	NFP / 21.96
Free-Product Thickness (ft)	NFP	NFP	NFP	NFP	**0.72**	NFP

Well ID	11929-MW15	11929-MW16	11929-MW17	11929-MW18
Depth to Free-Product / Groundwater	19.54 / 19.55	NFP / 19.59	20.37 / 20.55	20.63 / 20.64
Free-Product Thickness (ft)	**0.01**	NFP	**0.18**	**0.01**

NOTES:
NFP - No Free-Product
Measurements are in feet below top of casing

Prepared By: DRM
Checked By: RAD

FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 09-05-13	BLE inc. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: DRM	CAD: FORMERRTT-20SLM		FIGURE 1
APPROVED:	JOB NO: J13-1010-20		

WELL #	11929-MW16	
DATE	6-12-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	NFP	NFP
DEPTH TO WATER (FEET BELOW TOP OF CASING)	22.1	19.59
FREE-PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	11929-MW04		
DATE	6-12-2013	7-11-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	22.70	NFP	NFP
DEPTH TO WATER (FEET BELOW TOP OF CASING)	24.06	21.67	19.91
FREE-PRODUCT THICKNESS (FEET)	1.36	NFP	NFP

WELL #	11929-MW05			
DATE	6-12-2013	7-11-2013	8-1-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	NFP	NFP	NFP	NFP
DEPTH TO WATER (FEET BELOW TOP OF CASING)	22.02	20.94	19.65	19.08
FREE-PRODUCT THICKNESS (FEET)	NFP	NFP	NFP	NFP

WELL #	11929-MW15	
DATE	8-1-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	NFP	19.54
DEPTH TO WATER (FEET BELOW TOP OF CASING)	19.84	19.55
FREE-PRODUCT THICKNESS (FEET)	NFP	0.01

WELL #	11929-MW02	
DATE	8-12-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	NFP	NFP
DEPTH TO WATER (FEET BELOW TOP OF CASING)	19.51	20.37
FREE-PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	11929-MW17			
DATE	6-12-2013	7-11-2013	8-1-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	22.62	22.09	21.05	20.37
DEPTH TO WATER (FEET BELOW TOP OF CASING)	22.63	22.29	21.25	20.55
FREE-PRODUCT THICKNESS (FEET)	0.01	0.20	0.20	0.18

WELL #	11929-MW06			
DATE	6-12-2013	7-11-2013	8-1-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	23.05	22.55	21.73	21.26
DEPTH TO WATER (FEET BELOW TOP OF CASING)	23.12	24.41	22.61	21.98
FREE-PRODUCT THICKNESS (FEET)	0.07	1.86	0.88	0.72

WELL #	11929-MW12	
DATE	8-12-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	NFP	NFP
DEPTH TO WATER (FEET BELOW TOP OF CASING)	22.24	21.96
FREE-PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	11929-MW18			
DATE	7-11-2013	8-1-2013	8-12-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	22.06	21.19	NFP	20.63
DEPTH TO WATER (FEET BELOW TOP OF CASING)	22.15	21.2	20.39	20.64
FREE-PRODUCT THICKNESS (FEET)	0.09	0.01	26.86	0.01

WELL #	11929-MW03R	
DATE	8-12-2013	8-30-2013
DEPTH TO FREE-PRODUCT (FEET BELOW TOP OF CASING)	20.88	NFP
DEPTH TO WATER (FEET BELOW TOP OF CASING)	20.89	20.15
FREE-PRODUCT THICKNESS (FEET)	0.01	NFP

WOODS LAKE ROAD
PLANTER
OVERHEAD POWER
FIRE HYDRANT
P.P.
ASPHALT
GRASS
MR. ROOTER PLUMBING
CHAIN LINK FENCE
COMFORT INN
CONCRETE
FORMER TANK BASIN
MARKET PUMP ISLANDS
CATCH BASIN
R.L. KUNTZ
FORMER GATEWAY SUPPLY
11929-MW01
11929-MW02
11929-MW02D
11929-MW03R
11929-MW04
11929-MW05
11929-MW06
11929-MW07
11929-MW08
11929-MW09
11929-MW10
11929-MW11
11929-MW12
11929-MW13
11929-MW14
11929-MW15
11929-MW16
11929-MW17
11929-MW18
MW-3

60 30 0 60 120
APPROXIMATE SCALE IN FEET

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- NFP — NO FREE PRODUCT

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	09-05-13
CHECKED BY:	DRM	FILE:	FORMERRTT-20FPTM
APPROVED BY:		JOB NO:	J13-1010-20

REVISIONS		
No.	DESCRIPTION	BY

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

AFVR FREE-PRODUCT THICKNESS MAP
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
GREENVILLE, SOUTH CAROLINA

FIGURE 2

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

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

5. Generator's Name and Mailing Address

BUNNELL-LAMMONS ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615

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

Generator's Phone: 864-288-1265

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

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

8. Designated Facility Name and Site Address

VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662

U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9363

	9. Waste Shipping Name and Description		10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON-REG WELL WATER #11312	Former Ryder Terminal 10 Woodslake Rd Greenville UST 11929			1962	G
2.	Non Haz Non Reg well water #11312	639 W. Cond... SC ... UST# 03568			3835	G
3.	Non Haz Non Reg well water #11312	301 3rd Avenue South Myrtle Beach UST 09412			20	G
4.	Non Haz Non Reg well water #11312	420 Church Street Conway SC UST 05143			23	G

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Brian K. White	Brian K. White	7	15	13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1					
Transporter 2					

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
Steven [illegible]	[signature]	7	15	13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

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

5. Generator's Name and Mailing Address

[illegible]

Generator's Phone: [illegible]

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

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

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

8. Designated Facility Name and Site Address

VLS RECOVERY SERVICES, LLC
200 S. MAIN STREET
MAULDIN, SC 29662

U.S. EPA ID Number: [illegible]

Facility's Phone: [illegible]

	9. Waste Shipping Name and Description		10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11312	Bi-Lo? 915 Arden NC UST# 0-007365			132	G
2.	Non Haz well water 11312	KA10 #104 Anderson SC UST 00581			48.7	G
3.	Non haz well water 11312	Spinx #19 Columbia SC UST 07731			24.5	G
4.	Non Haz Non Reg Well water #11312	Former Rider Terminal Lake Pr Greenville SC UST# 11929			194	G

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name — Signature: [signature] — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

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: Steven L. [illegible] — Signature: [signature] — Month 6 Day 20 Year 13

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			1010-18

GENERATOR

5. Generator's Name and Mailing Address

BUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615

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

Generator's Phone: 864-288-2285

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

BLE

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

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

VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662

SCR000762463

Facility's Phone: 864-967-9953

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ NON REG WELL WATER #11312 — Former Ryder Truck to Wood Lake Dr. Greenville #11929			725	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Brian K. Walsh — Signature: Brian K Walsh — Month: 8 — Day: 1 — Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

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: Steven Wilson — Signature — Month: 8 — Day: 1 — Year: 13

VLS recovery services, llc

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

BUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615

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

Generator's Phone:

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

BLE

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

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

VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662

SCR000762468

Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ NON REG WELL WATER #11312 — Former Ryder Truck 10 Woods Lake Dr. Greenville UST # 11929			1079	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name — Signature — Month 8 — Day 12 — Year 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

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 8 — Day 13 — Year 15

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

AUG 1 3 2015

Re: **Site Specific Work Plan Request**
Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC
UST Permit # 11929
Release reported February 25, 1997
AFVR Report received September 17, 2013
Greenville County

Dear Ms. Mumbauer:

The UST Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the status of the referenced 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. Groundwater samples should be collected from all monitoring wells, creeks, and drainage ditches associated with the release 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. **As it has been more than one year since the last sampling event, all wells must 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/QAPP_Rev-2_April2013.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 #11929. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0614, by fax at (803) 898-0673, or by e-mail at barneskt@dhec.sc.gov.

Sincerely,

K-T B-s

Kevin T Barnes, GIT
Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc, 6004 Ponders Ct, Greenville, SC 29615
Technical File

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

OCT 2 9 2015

Re: **Groundwater Sampling Directive**
Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC
UST Permit # 11929; CA# 50815
Release #2 reported February 25, 1997
Site Specific Work Plan received October 1, 2015
Greenville County

Dear Ms. Auten:

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 (SSWP) submitted on your behalf by Bunnell-Lammons Engineering, Inc. 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, Bunnell-Lammons' approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and must be conducted in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement #50815 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, 8 oxygenates, and EDB.

In accordance with the QAPP, 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.

Bunnel-Lammons can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB

Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding 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 chemicals of concern (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 # 11929 and Cost Agreement #50815. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0614, by fax at (803) 898-0673, or by e-mail at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT
Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc, 6004 Ponders Ct, Greenville, 29615 (with enc.)
Technical File (with enc.)

Approved Cost Agreement 50815

Facility 11929 FORMER RYDER TERMINAL

BARNESKT

PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1 0000	150 00	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	2 0000	423 00	846 00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	19 0000	60 00	1,140 00
		D1	GROUNDWATER NO PURGE/DUPLICATE	1 0000	28 00	28 00
		H1	FIELD BLANK	1 0000	24 60	24 60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22 0000	122 00	2,684.00
		F1	EDB BY 8011	21 0000	45 20	949 20
17 DISPOSAL						
		AA	WASTEWATER	50 0000	0 56	28 00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	5,899 80	707 98
25 WELL REPAIR						
		A1	ADDITIONAL COPIES OF REPORT	1 0000	50 00	50 00
				Total Amount		6,607 78

Document Receipt Information

[ ] Hard Copy [X] CD [ ] Email

Date Received 4-13-2016

Permit Number 11929

Project Manager Kevin Barnes

Name of Contractor BLE

UST Certification Number

Docket Number 32 tech

Scanned

Description Report of GW Sampling Event January 2016

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT - JANUARY 2016

FORMER RYDER TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #50815

Prepared For

Ms. Ingrid Auten
C/O Ms. Annie Mumbauer
BB&T Wealth Management
P.O. Box 408
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Prepared By

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

April 8, 2016

BLE Project Number J15-1010-21

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

April 8, 2016

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Kevin T. Barnes, GIT
Hydrogeologist

Subject: **Report of Comprehensive Groundwater Sampling Event – January 2016**
Former Ryder Terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929; CA #50815
BLE Project No. J15-1010-21

Dear Mr. Barnes:

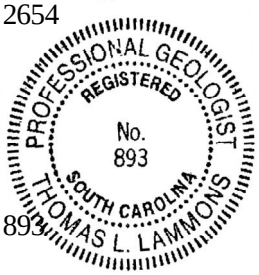
On behalf of BB&T Wealth Management (BB&T), Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated October 29, 2015 and is in accordance with BLE's Site Specific Work Plan (SSWP) submitted on September 28, 2015. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Reid A. Doherty, P.G.
Staff Hydrogeologist
Registered, South Carolina No. 2654

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395



Thomas L. Lammons, P.G
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 29602.

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BACKGROUND INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments have been performed at the subject site to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

In an effort to evaluate current groundwater chemicals of concern (CoC) trends at the subject site, the SCDHEC has required a comprehensive groundwater sampling event be conducted. The results of this scope of work are provided herein.

GROUNDWATER SAMPLING		
Date Sampled:	January 28, 2016	
Total Number of Wells Associated with Site:	19	MW-01, MW-02, MW-02D, MW-03R, and MW-04 through MW-18
Total Number of Wells Sampled:	12	MW-01, MW-02, MW-02D, MW-03R, and MW-05, MW-09, MW-10, MW-12 through MW-14, MW-16, and MW-18

Total Number of Wells NOT Sampled:	7	MW-04, MW-06, MW-15, and MW-17 (Free-Product) and MW-07, MW-08, and MW-11 (Wells Not Accessible / Denied Property Access)
Receptors Sampled	0	None Associated
QA / QC Samples	3	1 Duplicate Sample (MW-03R DUP), 1 Field Blank, and 1 Trip Blank
Total Purge Volume (gallons)	95	Disposal Manifest Included in Appendix A
Analytical Laboratory	Shealy Environmental Services, Inc.	
Analytical Methods	EPA Method 8260B and EPA Method 8011	
Free-Phase Petroleum Product	MW-04 (0.08-Feet), MW-06 (0.33-Feet), MW-15 (1.06-Feet), and MW-17 (0.06-Feet)	
Contaminants Exceeding Risk Based Screening Level Concentrations	Benzene, Naphthalene, and 1,2-Dibromoethane (EDB)	
Groundwater Level Measurements	See Table 1	
Groundwater Sampling Logs and Procedures	See Appendix B	
Laboratory Analytical Summary	See Table 2A and Table 2B	
Laboratory Analytical Results	See Appendix C	
Potentiometric Map	See Figure 2	
CoC Map	See Figure 3	

CONCLUSIONS AND RECOMMENDATIONS

Based on current laboratory analytical results the extent of the contamination plume appears to be substantially defined in the horizontal and vertical directions. However, monitoring wells MW-04, MW-06, MW-15, and MW-17 contained measurable thicknesses of free-phase petroleum product. Therefore, we recommend a series of three 96-Hour Aggressive Fluid Vapor Recovery (AFVR) events be conducted on these wells in order to remove free-phase petroleum product from the subsurface and reduce source area CoC concentrations.

Approximately thirty days after the last AFVR event, BLE recommends conducting a comprehensive groundwater sampling event in order to evaluate the effectiveness of the AFVR event, evaluate CoC concentration trends, and monitor plume migration.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten c/o BB&T. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

Monitoring Well and Groundwater Surface Elevation Data

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #50815
BLE Project No. J15-1010-21

Well Identification	Date Measured	Top of Casing Elevation	Ground Surface Elevation	Free Product Thickness	Groundwater Depth BTOC	Groundwater Elevation	Well Depth	Screened Interval Depth	Screened Interval Elevation
11929-MW01	1/21/2013	100.70	98.48	---	29.00	71.70	31.0	21.0 - 31.0	77.5 - 67.5
	1/28/2016			---	20.01	80.69			
11929-MW02	1/21/2013	100.10	100.54	---	26.90	73.20	30.0	20.0 - 30.0	80.5 - 70.5
	1/28/2016			---	19.15	80.95			
11929-MW02D	1/21/2013	99.29	99.76	---	28.59	70.70	54.5	49.5 - 54.5	50.3 - 45.3
	1/28/2016			---	21.03	78.26			
11929-MW03	1/21/2013	Well abandoned December 5, 2005							
11929-MW03R	1/21/2013*	99.00	99.57	**0.21**	26.36	72.64	32.4	22.2 - 32.2	77.4 - 67.4
	1/28/2016			---	18.78	80.22			
11929-MW04	1/21/2013*	102.67	102.91	**0.37**	26.31	76.36	29.5	19.5 - 29.5	83.4 - 73.4
	1/28/2016*			**0.08**	20.03	82.64			
11929-MW05	1/21/2013	101.48	101.71	---	26.55	74.93	29.0	19.0 - 29.0	82.7 - 72.7
	1/28/2016			---	17.62	83.86			
11929-MW06	1/21/2013*	101.74	102.12	**1.83**	27.85	73.89	29.5	19.5 - 29.5	82.6 - 72.6
	1/28/2016*			**0.33**	20.08	81.66			
11929-MW07	1/21/2013	92.67	92.97	Not Accessible			32.8	22.8 - 32.8	70.2 - 60.2
	1/28/2016			Not Accessible					
11929-MW08	1/21/2013	88.76	88.87	Not Accessible			29.8	19.8 - 29.8	69.1 - 59.1
	1/28/2016			Not Accessible					
11929-MW09	1/21/2013	102.26	102.65	---	27.35	74.91	30.7	20.4 - 30.4	82.3 - 72.3
	1/28/2016			---	17.74	84.52			
11929-MW10	1/21/2013	104.67	104.67	---	26.35	78.32	30.1	19.8 - 29.8	84.9 - 74.9
	1/28/2016			---	17.46	87.21			
11929-MW11	1/21/2013	100.66	100.92	Not Accessible			31.0	20.7 - 30.7	80.2 - 70.2
	1/28/2016			Not Accessible					
11929-MW12	1/21/2013	101.38	101.68	---	27.85	73.53	30.9	20.7 - 30.7	81.0 - 71.0
	1/28/2016			---	20.41	80.97			
11929-MW13	1/21/2013	98.62	98.95	---	25.80	72.82	33.2	23.0 - 33.0	76.0 - 66.0
	1/28/2016			---	19.04	79.58			
11929-MW14	1/21/2013	99.30	99.83	---	25.85	73.45	32.0	21.8 - 31.8	78.0 - 68.0
	1/28/2016			---	18.89	80.41			
11929-MW15	1/21/2013*	100.39	100.58	**0.25**	26.38	74.01	33.5	23.3 - 33.3	77.3 - 67.3
	1/28/2016*			**1.06**	18.04	82.35			
11929-MW16	1/21/2013	102.74	103.03	---	25.49	77.25	34.4	24.2 - 34.2	78.8 - 68.8
	1/28/2016			---	17.96	84.78			
11929-MW17	1/21/2013*	102.09	102.49	**2.90**	27.47	74.62	35.0	24.8 - 34.8	77.7 - 67.7
	1/28/2016*			**0.06**	19.97	82.12			
11929-MW18	1/21/2013*	100.39	100.74	**0.40**	27.12	73.27	35.6	25.4 - 35.4	75.3 - 65.3
	1/28/2016			---	19.46	80.93			

NOTES:
Measurements are in feet; elevations are relative to an arbitrary site datum.
* = Depth to groundwater measurements have been corrected for the presence of free-product using a density of 0.70 g/cc.
BTOC = Below Top of Casing

Prepared By: RAD
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #50815
BLE Project No. J15-1010-21

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW01	12/13/96	---	**20.6**	**1.74**	**2.61**	**6.4**	ND	ND	NT	NT
	2/10/98	---	ND	ND	ND	ND	ND	ND	ND	NT
	3/29/99	---	2.6	ND	ND	ND	ND	ND	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	ND	ND	ND	ND	ND	ND	NT	NT
	2/3/04	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	ND	ND	ND	ND	ND	ND	**0.028**	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0048	<0.23
11929-MW02	12/13/96	---	**249**	**22.5**	**43.5**	**363**	**11.1**	**900**	NT	NT
	2/10/98	**0.70**	**Not Sampled Due to the Presence of Free-Product**							
	3/29/99	**1.25**	**Not Sampled Due to the Presence of Free-Product**							
	7/5/01	**1.25**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/03	**1.92**	**Not Sampled Due to the Presence of Free-Product**							
	2/2/04	**0.01**	**Not Sampled Due to the Presence of Free-Product**							
	1/20/05	**0.23**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/06	---	**120**	ND	**6.8**	**170**	ND	**240**	**0.33**	NT
	5/29/07	**0.26**	**Not Sampled Due to the Presence of Free-Product**							
	9/9/08	**0.29**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	**0.02**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	---	**25.6**	<5	<5	**41.1J**	<5	**53.3**	**0.061**	<5
	11/2/11	---	**35.0**	<5	<5	**16.0**	**0.59J**	**110**	<0.019	<5
	1/21/13	---	**37.0**	<25	<25	**40.0**	<25	**440**	<0.019	<25
	1/28/16	---	**25.0**	<0.24	<0.21	**33.0**	<0.23	**59.0**	**0.013 J**	<0.23
11929-MW02D	2/10/98	---	**2.55**	ND	ND	**3.21**	ND	**12.5**	ND	NT
	3/29/99	---	**3.47**	ND	ND	ND	**3.12**	**4.3**	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	**1.4**	ND	ND	ND	**1.2**	ND	NT	NT
	2/3/04	---	ND	ND	ND	ND	**3.7**	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	**1.1**	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	**1.2J**	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	**2.9J**	<5	<5	<5	**0.68J**	**3.2J**	<0.019	<5
	1/21/13	---	**2.9J**	<5	<5	<5	**0.58J**	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	**0.57 J**	<0.0049	<0.23
11929-MW03	2/10/98	---	**62.5**	**6.4**	**19.3**	**193**	ND	**106**	ND	NT
	3/29/99	**0.01**	**Not Sampled Due to the Presence of Free-Product**							
	7/5/01	**0.04**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/03	**0.12**	**Not Sampled Due to the Presence of Free-Product**							
	2/2/04	---	NS	NS	NS	NS	NS	NS	NS	NS
	1/20/05	---	NS	NS	NS	NS	NS	NS	NS	NS
	2/23/06	Monitoring Well Abandoned								
11929-MW03R	2/24/06	---	**40.0**	ND	ND	**81.0**	ND	**120**	**0.90**	NT
	5/29/07	---	**48.0**	ND	ND	**109**	ND	**140**	**0.51**	NT
	9/9/08	---	**23.2**	ND	ND	**17.7**	ND	**63.2**	**0.44**	ND
	2/23/09	**0.60**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**0.04**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**0.35**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/12	**0.21**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	---	**0.42 J**	<0.24	<0.21	**0.77 J**	<0.23	**1.4 J**	<0.0049	<0.23
11929-MW03R DUP	1/28/16	---	**0.27 J**	<0.24	<0.21	**0.41 J**	<0.23	**0.72 J**	<0.0048	<0.23
11929-MW04	2/10/98	---	**2.2**	ND	**1.73**	**150**	ND	**186**	ND	NT
	3/29/99	---	ND	ND	ND	**10.6**	ND	**26.2**	NT	NT
	7/5/01	---	ND	ND	ND	**21.5**	ND	**49.6**	NT	NT
	1/28/03	---	ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	**0.96**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	NA	Well Dry							
	11/23/09	**0.47**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**1.32**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**0.37**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**0.08**	**Not Sampled Due to the Presence of Free-Product**							

Prepared By: RAD
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #50815
BLE Project No. J15-1010-21

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW05	2/10/98	---	**16.5**	ND	ND	**6.83**	ND	**33.3**	ND	NT
	3/29/99	---	ND	ND	**1.13**	**6.26**	ND	**50.2**	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	**25.2**	**11.5**	**5.1**	**32.4**	ND	5.0	NT	NT
	2/2/04	---	**23.1**	**4.0**	**2.0**	**8.7**	ND	ND	NT	NT
	1/20/05	---	**11.0**	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	**1.0**	**5.9**	**2.8**	**7.8**	ND	**9.7**	ND	NT
	11/23/09	---	<5	<5	**1.8J**	<10	<5	<5	<0.019	<5
	11/2/11	---	**0.32J**	**2.3J**	**2.4J**	**3.6J**	<5	<5	<0.020	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0050	<0.23
11929-MW06	2/10/98	---	**523**	**1,670**	**104**	**434**	**92.7**	**409**	ND	NT
	3/29/99	**1.83**	**Not Sampled Due to the Presence of Free-Product**							
	7/5/01	**>3.0**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/03	**>3.0**	**Not Sampled Due to the Presence of Free-Product**							
	2/2/04	**2.19**	**Not Sampled Due to the Presence of Free-Product**							
	1/20/05	**1.72**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/06	**1.54**	**Not Sampled Due to the Presence of Free-Product**							
	5/29/07	**0.63**	**Not Sampled Due to the Presence of Free-Product**							
	9/9/08	**0.42**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	NA	Well Dry							
	11/23/09	**3.10**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**2.90**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**1.83**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**0.33**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW07	9/15/99	---	ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01	---	**12.9**	ND	ND	**11.6**	**6.8**	**20.1**	NT	NT
	1/28/03	---	**6.2**	ND	ND	**4.0**	**3.2**	**6.0**	NT	NT
	2/2/04	---	ND	ND	ND	ND	**3.8**	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	9/9/08	---	NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09	---	**34.0**	ND	ND	**40.6**	**2.8**	**89.9**	**0.23**	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.019	<5
	11/2/11	---	**0.22J**	<5	<5	<5	<5	<5	0.023	<5
	1/21/13	NA	Not Accessible / Site Access Not Granted							
	1/28/16	NA	Not Accessible / Site Access Not Granted							
11929-MW08	9/15/99	---	ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/21/13	NA	Not Accessible / Site Access Not Granted							
	1/28/16	NA	Not Accessible / Site Access Not Granted							
11929-MW09	2/3/04	---	ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0049	<0.23
11929-MW10	2/2/04	---	ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	**5.4J**	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	---	<5	<5	<5	**2.3J**	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0047	<0.23

Prepared By: RAD
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #50815
BLE Project No. J15-1010-21

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW11	2/2/04	---	ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	NT	NT	NT	NT	NT	NT	NT	NT
	9/9/08	---	NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	NA	Not Accessible / Site Access Not Granted							
	1/28/16	NA	Not Accessible / Site Access Not Granted							
11929-MW12	2/24/06	---	ND	ND	ND	ND	**6.1**	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	**11.0**	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	**11.8**	ND	ND	ND
	2/23/09	NA	Well Dry							
	11/23/09	---	<5	<5	<5	<10	**14.0**	<5	<0.02	<5
	11/2/11	---	<5	<5	<5	<5	**18.0**	<5	<0.019	<5
	1/21/13	---	<5	<5	<5	<5	**15.0**	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0048	<0.23
11929-MW13	2/24/06	---	**100**	ND	ND	**110**	ND	**100**	**0.76**	NT
	5/29/07	---	**160**	ND	ND	**199**	ND	**170**	**0.62**	NT
	9/9/08	---	**77.0**	ND	ND	**101**	ND	**226**	**0.162**	ND
	2/23/09	---	**23.5**	ND	ND	**46.2**	ND	**68.1**	**0.18**	NT
	11/23/09	---	**23.6**	<5	<5	**69.4**	<5	**58.4**	**0.46**	<5
	11/2/11	---	**34.0**	<5	<5	**82.0**	**1.7J**	**130**	**0.30**	<5
	1/21/13	---	**40.0**	<25	<25	**81.0**	<25	**190**	**0.12**	<25
	1/28/16	---	**43.0**	<0.24	<0.21	**100**	**0.39 J**	**130**	**0.058**	<0.23
11929-MW14	2/24/06	---	**160**	**34.0**	**480**	**620**	ND	**160**	**0.46**	NT
	5/29/07	---	**220**	ND	**550**	**700**	ND	**250**	**0.26**	NT
	9/9/08	---	**82.4**	**3.81**	**54.8**	**67.1**	ND	**75.0**	**0.118**	ND
	2/23/09	---	**175**	**9.9**	**303**	**119.8**	**1.9**	**194**	**0.20**	NT
	11/23/09	---	**150**	**10.5**	**263**	**93.8J**	<10	**81.5**	**0.084**	<10
	11/2/11	---	**36.0**	**2.0J**	**65.0**	**4.3J**	<5	**29.0**	**0.013J**	<5
	1/21/13	---	**130**	<25	**360**	<25	<25	**160**	<0.021	<25
	1/28/16	---	**140**	**6.2 J**	**310**	**8.9 J**	<1.2	**100**	<0.0048	<1.2
11929-MW15	2/24/06	---	**100**	**8.0**	**25.0**	**160**	ND	**140**	**0.54**	NT
	5/29/07	---	**190**	**12.0**	**21.0**	**240**	ND	**390**	**0.45**	NT
	9/9/08	**0.29**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	**0.13**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**0.90**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**0.87**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**0.25**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**1.06**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW16	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/24/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	**0.98 J**	<0.0048	<0.23
11929-MW17	2/23/09	**0.79**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**2.31**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**1.65**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**2.90**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**0.06**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW18	2/23/09	**0.45**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**0.11**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**0.56**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**0.40**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	---	**100**	**0.68 J**	**2.0 J**	**82.0**	**5.5**	**260**	**0.13**	<0.23
Field Blank	1/28/16	NA	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0048	<0.23
Trip Blank	1/28/16	NA	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	NT	<0.23

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold values indicate detections over the laboratory method detection limit.
Shaded cells indicate values exceeding the RBSL.
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
MTBE = Methyl tertiary butyl ether
EDB = 1,2-Dibromoethane
1,2-DCA = 1,2-Dichloroethane

Prepared By: RAD
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #50815
BLE Project No. J15-1010-21

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
11929-MW01	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW02	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<50	<100	<25	<100	<25	<500	<5	<100
	1/28/16	<0.25	<1.5	<0.66	**8.9 J**	<0.26	<19	<0.13	<1.5
11929-MW02D	2/23/09	NT	**70.5**	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW03	2/23/06	Well Abandoned							
11929-MW03R	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW03R DUP	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW04	2/23/09	Well Dry							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
11929-MW05	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW06	2/23/09	Well Dry							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
11929-MW07	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	Not Accessible / Site Access Not Granted							
	1/28/16	Not Accessible / Site Access Not Granted							
11929-MW08	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	Not Accessible / Site Access Not Granted							
	1/28/16	Not Accessible / Site Access Not Granted							
11929-MW09	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW10	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW11	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	Not Accessible / Site Access Not Granted							
	1/28/16	Not Accessible / Site Access Not Granted							
11929-MW12	2/23/09	Well Dry							
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	**0.67J**	<20	<5	<20	<5	46J	<1	<20
	1/21/13	**0.40J**	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW13	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/24/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	**9.1J**	<5	**11.0J**	<5	<100	<1	<20
	1/21/13	<50	<100	<25	<100	<25	<500	<5	<100
	1/28/16	<0.25	**8.4 J**	<0.66	**15 J**	<0.26	<19	<0.13	<1.5

Prepared By: RAD
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

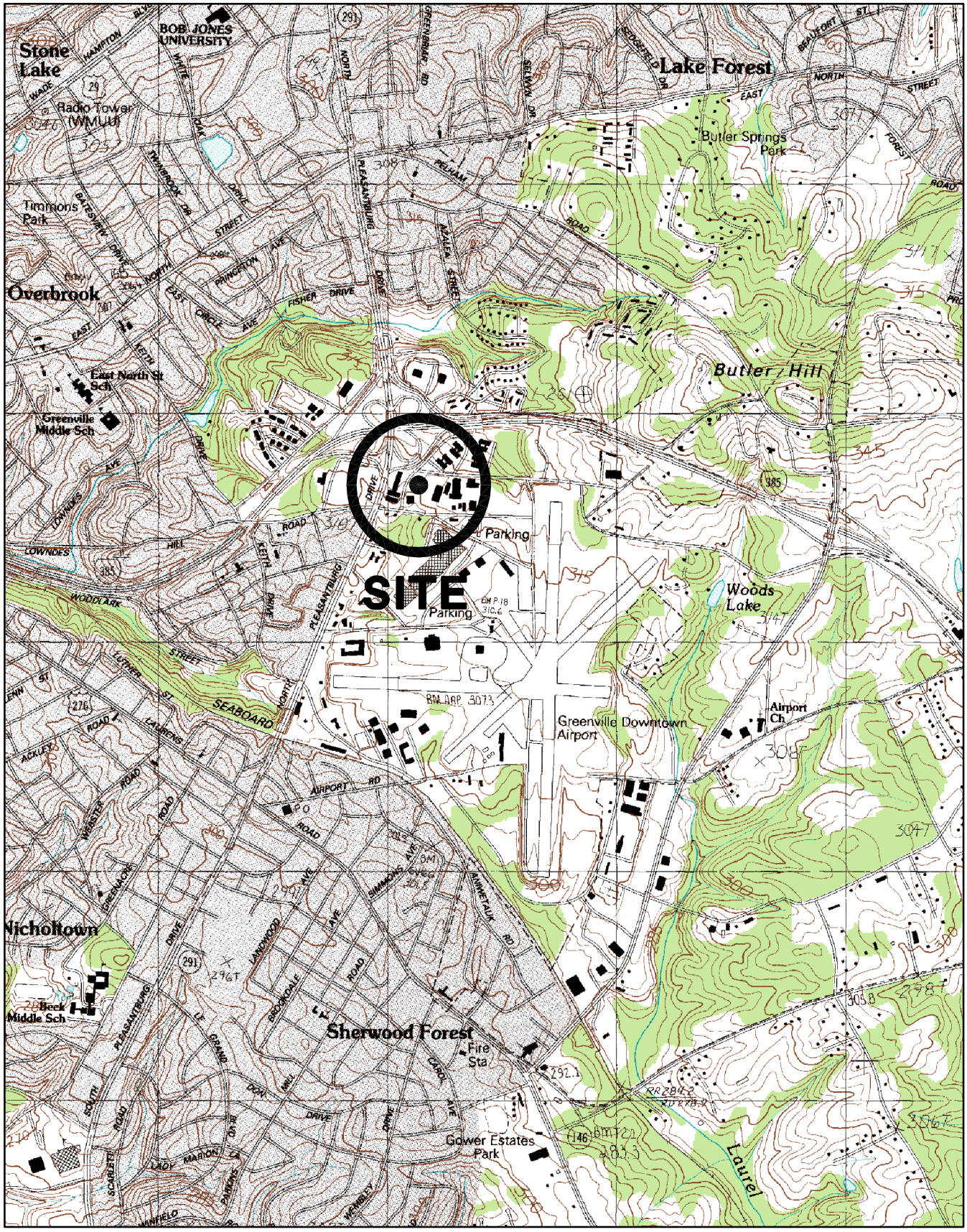
Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #50815
BLE Project No. J15-1010-21

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
11929-MW14	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<20	<200	<100	<200	<10	<400	<20	<200
	11/2/11	<10	<20	<5	**22.0**	<5	<100	<1	<20
	1/21/13	<50	**110**	<25	<100	<25	<500	<5	<100
	1/28/16	<1.3	**130**	<3.3	**19 J**	<1.3	<96	<0.65	<7.5
11929-MW15	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
11929-MW16	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW17	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
11929-MW18	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	<0.25	**9.4 J**	<0.66	**18 J**	**1.1 J**	<19	<0.13	<1.5
Field Blank	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
Trip Blank	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold values indicate detections over the laboratory method detection limit.
Shaded cells indicate values exceeding the RBSL.
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.

Prepared By: RAD
Checked By: TJB

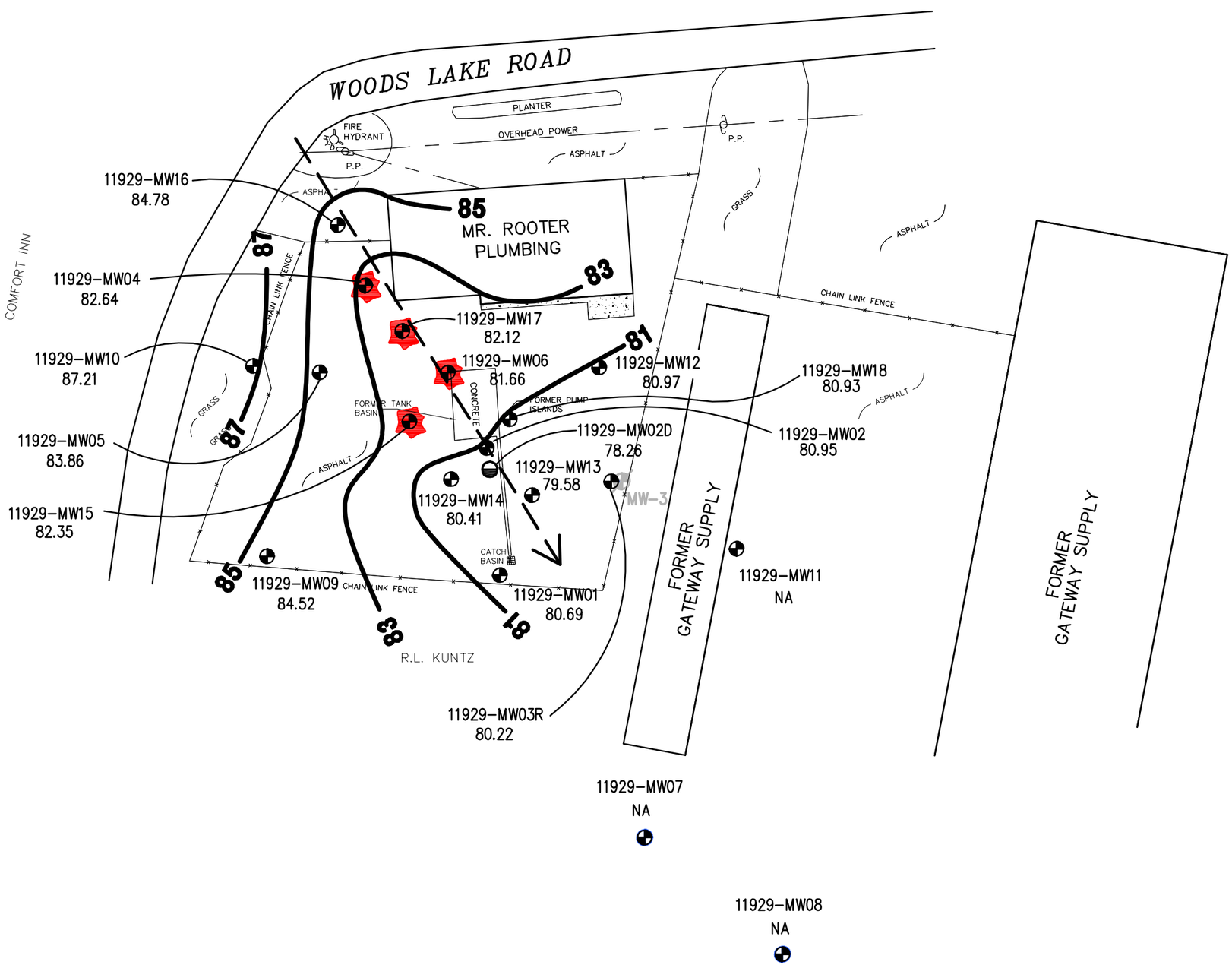
FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 09-28-15	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-21SLM		FIGURE 1
APPROVED:	JOB NO: J15-1010-21		



60 30 0 60 120

APPROXIMATE SCALE IN FEET

NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON JANUARY 28, 2016.
2. GROUNDWATER ELEVATION DATA FOR MW-02D WAS IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. GROUNDWATER ELEVATIONS FOR MW-04, MW-06, MW-15 AND MW-17 WERE CORRECTED FOR THE PRESCENCE OF FREE-PRODUCT USING A DENSITY OF 0.70 g/cm.

LEGEND

⊕	SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
⊖	SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
⊗	LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
P.P.	POWER POLE
OVERHEAD POWER	OVERHEAD POWER LINE
	FREE-PRODUCT
NA	NOT ACCESSIBLE
80.97	GROUNDWATER ELEVATION (FEET)
85	GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
	GROUNDWATER FLOW DIRECTION

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

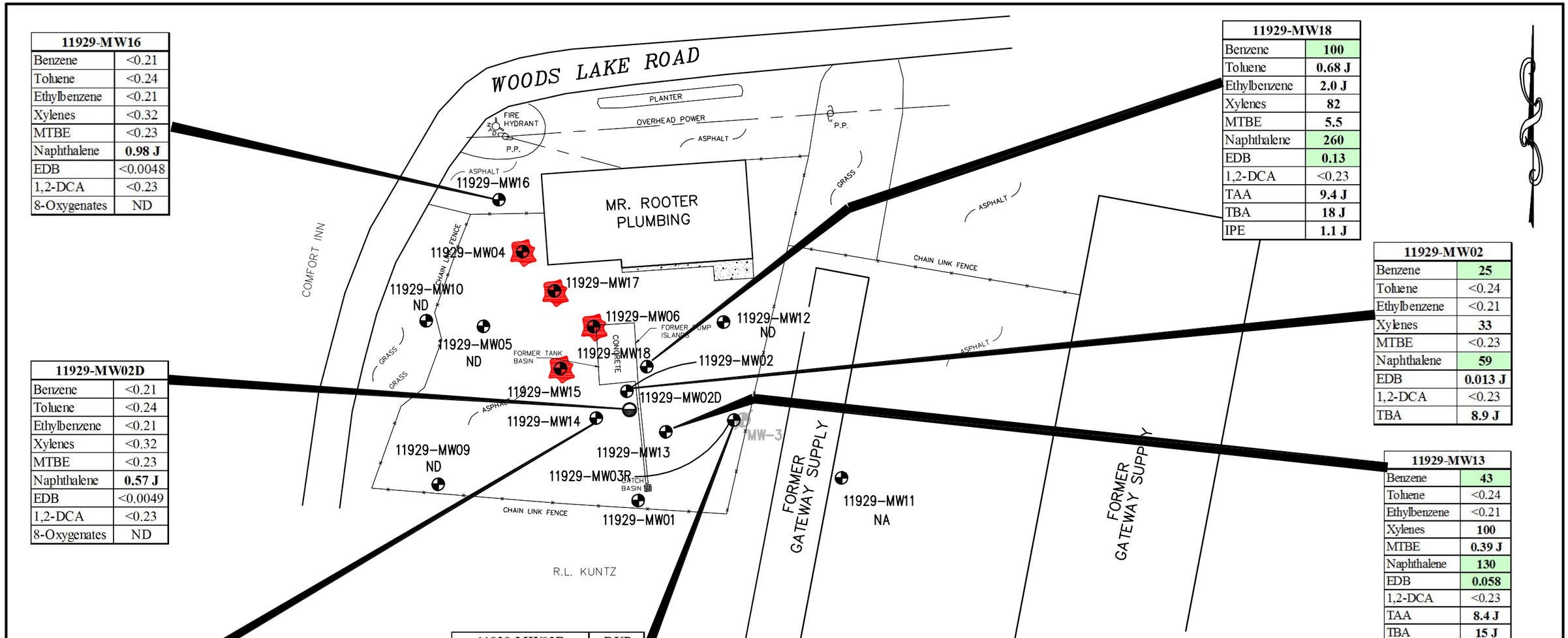
DRAWN BY:	ACE	DATE:	03-21-16
CHECKED BY:	RAD	FILE:	FORMERRTT-21WTM
APPROVED BY:		JOB NO:	J150-1010-21

REVISIONS		
No.	DESCRIPTION	BY

BLE INC. BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP – JANUARY 2016
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE 2



11929-MW16	
Benzene	<0.21
Toluene	<0.24
Ethylbenzene	<0.21
Xylenes	<0.32
MTBE	<0.23
Naphthalene	**0.98 J**
EDB	<0.0048
1,2-DCA	<0.23
8-Oxygenates	ND

11929-MW18	
Benzene	**100**
Toluene	**0.68 J**
Ethylbenzene	**2.0 J**
Xylenes	**82**
MTBE	**5.5**
Naphthalene	**260**
EDB	**0.13**
1,2-DCA	<0.23
TAA	**9.4 J**
TBA	**18 J**
IPE	**1.1 J**

11929-MW02	
Benzene	**25**
Toluene	<0.24
Ethylbenzene	<0.21
Xylenes	**33**
MTBE	<0.23
Naphthalene	**59**
EDB	**0.013 J**
1,2-DCA	<0.23
TBA	**8.9 J**

11929-MW02D	
Benzene	<0.21
Toluene	<0.24
Ethylbenzene	<0.21
Xylenes	<0.32
MTBE	<0.23
Naphthalene	**0.57 J**
EDB	<0.0049
1,2-DCA	<0.23
8-Oxygenates	ND

11929-MW13	
Benzene	**43**
Toluene	<0.24
Ethylbenzene	<0.21
Xylenes	**100**
MTBE	**0.39 J**
Naphthalene	**130**
EDB	**0.058**
1,2-DCA	<0.23
TAA	**8.4 J**
TBA	**15 J**

11929-MW14	
Benzene	**140**
Toluene	**6.2 J**
Ethylbenzene	**310**
Xylenes	**8.9 J**
MTBE	<1.2
Naphthalene	**100**
EDB	<0.0048
1,2-DCA	<1.2
TAA	**130**
TBA	**19 J**

11929-MW03R	DUP
Benzene	**0.42 J**	**0.27 J**
Toluene	<0.24	<0.24
Ethylbenzene	<0.21	<0.21
Xylenes	**0.77 J**	**0.41 J**
MTBE	<0.23	<0.23
Naphthalene	**1.4 J**	**0.72 J**
EDB	<0.0049	<0.0048
1,2-DCA	<0.23	<0.23
8-Oxygenates	ND	ND

60 30 0 60 120

APPROXIMATE SCALE IN FEET

Notes:
- Monitoring wells sampled on January 28, 2016.
- Monitoring wells MW-04, MW-06, MW-16 and MW-17 contained free-phase petroleum product.
- Monitoring wells MW-07, MW-08 and MW-11 were not accessible (NA) during this event.
- Results reported in µg/L (micrograms/Liter), otherwise the unit will be in parenthesis behind the result.
- < : Less than the method detection limit.
- J: Result is equal to or greater than method detection limit and less than report limit.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- FREE-PRODUCT

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	03-21-16
CHECKED BY:	RAD	FILE:	FORMERRTT-21GWCOC
APPROVED BY:		JOB NO:	J150-1010-21

REVISIONS		
No.	DESCRIPTION	BY

BLE INC. BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC MAP – JANUARY 2016
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE 3

APPENDICES

APPENDIX A

DISPOSAL MANIFESTS

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number: BK [illegible] BL [illegible]

5. Generator's Name and Mailing Address
BUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615

Generator's Site Address (if different than mailing address)
ACTION FUELS SHELL UST00707
1500 EAST GREENVILLE STREET
ANDERSON, SC 29621

Generator's Phone: 864-288-1265

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

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

8. Designated Facility Name and Site Address
VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662

U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11312 — Ayres + Sons Market 3320 South [illegible] UST # 16915			68	6
2.	Charles Pure [illegible] UST # 02739			[illegible]	6
3.	[illegible]			95	6
4.	[illegible]			[illegible]	6

13. Special Handling Instructions and Additional Information
[illegible]

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

Generator's/Offeror's Printed/Typed Name: Brian K. White — Signature: [signature] — Month / Day / Year: [illegible] / [illegible] / 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ______
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian K White — Signature: [signature] — Month 2 Day 25 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

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

Printed/Typed Name: Daniel Whitmire — Signature: [signature] — Month 2 Day 25 Year 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

APPENDIX B

MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on January 28, 2016.

Quality Assurance			
pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU
Chain of Custody			
Michael W. Parks	1/29/16 : 1048	Shealy	1/29/16 : 1048

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MWP
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 31.00 ft
Depth to Groundwater (DGW) 20.01 ft
Length of Water Colum (LWC = TWD-DGW) 10.99 ft
1 Casing Volume (LWC*C) = ____ X .17 = 1.87 gals
3 Casing Volumes = 3 X ____ = 5.61 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.0	4.0	6.0				
Time (military)	1042	1046	1050	1054				
pH (s.u)	5.20	5.18	5.17	5.14				
Specific Conductivity	183.1	182.1	181.4	181.1				
Water Temperature (°C)	18.9	19.7	20.2	20.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.79	9.81	10.02	9.94				
Dissolved Oxygen (mg/l)	1.8	1.8	1.8	1.8				

Remarks:

will sample @ 1054 on 1/28/16.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MWL
General Weather Conditions Sunny
Ambient Air Temperature (°F) 61

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2

Well Diameter (D) 2 inch of 30.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.00	ft
Depth to Groundwater (DGW)	19.15	ft
Length of Water Colum (LWC = TWD-DGW)	10.85	ft
1 Casing Volume (LWC*C) = ____ X .17 =	1.85	gals
3 Casing Volumes = 3 X ____ =	5.55	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.0	4.0	6.0				
Time (military)	1210	1213	1216	1219				
pH (s.u)	5.87	4.94	4.71	4.68				
Specific Conductivity	74.1	73.8	73.2	73.0				
Water Temperature (°C)	19.9	20.8	21.2	21.6				
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.42	12.7	17.1	9.82				
Dissolved Oxygen (mg/l)	0.9	0.9	0.9	0.9				

Remarks:
well Sampled @ 1219 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MWP
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60°

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 54.50 ft
Depth to Groundwater (DGW) 21.03 ft
Length of Water Colum (LWC = TWD-DGW) 33.47 ft
1 Casing Volume (LWC*C) = ____ X .17 = 5.69 gals
3 Casing Volumes = 3 X ____ = 17.07 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		6.0	12.0	17.5				
Time (military)	1148	1152	1156	1200				
pH (s.u)	6.11	6.09	6.04	6.05				
Specific Conductivity	146.3	145.8	145.7	146.1				
Water Temperature (°C)	18.6	19.2	20.8	21.8				
Turbidity (subjective: clear, slightly cloudy, cloudy)	89.6	24.7	12.1	9.81				
Dissolved Oxygen (mg/l)	2.1	2.1	2.1	2.1				

Remarks:

well Sampled @ 1200 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel mwf
General Weather Conditions mwf
Ambient Air Temperature (°F) 6

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Well # MW-3R

Well Diameter (D) 2 inch of 32.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness ~~0.21~~ ft
Total Well Depth (TWD) 32.40 ft
Depth to Groundwater (DGW) 18.78 ft
Length of Water Colum (LWC = TWD-DGW) 13.62 ft
1 Casing Volume (LWC*C) = ____ X .17 = 2.32 gals
3 Casing Volumes = 3 X ____ = 6.96 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.3	5.0	~~7.0~~				
Time (military)	1000	1004	1008	1012				
pH (s.u)	8.83	8.79	8.71	8.70				
Specific Conductivity	65.9	64.8	64.7	64.5				
Water Temperature (°C)	19.5	20.1	20.8	21.1				
Turbidity (subjective: clear, slightly cloudy, cloudy)	7.91	12.6	14.1	9.91				
Dissolved Oxygen (mg/l)	1.1	1.1	1.1	1.1				

Remarks: Purge ran @ 1013 on 1/28/16
well sampled @ 1012 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date
Field Personnel
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

	0.08	
*Free Product Thickness	~~0.07~~	ft
Total Well Depth (TWD)	29.50	ft
Depth to Groundwater (DGW)	20.09	ft
Length of Water Colum (LWC = TWD-DGW)	9.41	ft
1 Casing Volume (LWC*C) = ____ X .17 =	1.60	gals
3 Casing Volumes = 3 X ____ =	4.80	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: VC4 not sampled due to FPT > 0.01'

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel mrf
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-5

Well Diameter (D) 2 inch of 29.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 29.00 ft
Depth to Groundwater (DGW) 17.62 ft
Length of Water Colum (LWC = TWD-DGW) 11.38 ft
1 Casing Volume (LWC*C) = ____ X .17 = 1.93 gals
3 Casing Volumes = 3 X ____ = 5.79 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.0	4.0	6.0				
Time (military)	1255	1259	1303	1307				
pH (s.u)	6.00	5.82	5.73	5.66				
Specific Conductivity	71.0	70.8	70.4	70.1				
Water Temperature (°C)	20.4	20.9	21.1	21.1				
Turbidity (subjective: clear, slightly cloudy, cloudy)	14.7	13.2	11.9	9.81				
Dissolved Oxygen (mg/l)	1.3	1.3	1.3	1.3				

Remarks:

well Sampled @ 1307 On 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page 1 of 1

Date
Field Personnel
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:
serial no.
pH =4.0
pH = 7.0
pH = 10.0
DO Meter
Standard

Conductivity Sensor:
serial no.
Standard
Standard
Standard
Standard
Turbidity:

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	0.33 ~~1.88~~	ft
Total Well Depth (TWD)	29.50	ft
Depth to Groundwater (DGW)	20.31	ft
Length of Water Colum (LWC = TWD-DGW)		9.19 ft
1 Casing Volume (LWC*C) =	X .17 =	1.56 gals
3 Casing Volumes = 3 X	=	4.68 gals
(Standard Purge Volume)		

Total Volume of Water Purged Before Sampling _____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: well not sampled due to FPT > 0.01'.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page 1 of 1

Date
Field Personnel
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:
serial no.
pH =4.0
pH = 7.0
pH = 10.0
DO Meter
Standard

Conductivity Sensor:
serial no.
Standard
Standard
Standard
Standard
Turbidity:

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-7

Well Diameter (D) 2 inch of 32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 32.80 ft
Depth to Groundwater (DGW) ft
Length of Water Colum (LWC = TWD-DGW) ft
1 Casing Volume (LWC*C) = X .17 = gals
3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: well not accessible

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date _____
Field Personnel _____
General Weather Conditions _____
Ambient Air Temperature (°F) _____

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	29.80	ft
Depth to Groundwater (DGW)		ft
Length of Water Colum (LWC = TWD-DGW)		ft
1 Casing Volume (LWC*C) =	X .17 =	gals
3 Casing Volumes = 3 X	=	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: well not accessible

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MWP
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft		
Total Well Depth (TWD)	30.70	ft		
Depth to Groundwater (DGW)	17.74	ft		
Length of Water Colum (LWC = TWD-DGW)			12.96	ft
1 Casing Volume (LWC*C) =	____ X .17	=	2.20	gals
3 Casing Volumes = 3 X	____ (Standard Purge Volume)	=	6.60	gals

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.5	5.0	7.0				
Time (military)	1320	1325	1330	1335				
pH (s.u)	5.09	5.06	5.04	5.04				
Specific Conductivity	38.6	37.9	37.4	37.3				
Water Temperature (°C)	19.1	19.9	20.3	20.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.42	12.9	11.1	9.87				
Dissolved Oxygen (mg/l)	1.8	1.8	1.9	1.8				

Remarks:

well Sampled @ 1339 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MW
General Weather Conditions Sunny
Ambient Air Temperature (°F) 67

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-10

Well Diameter (D) 2 inch of 30.10 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft
Total Well Depth (TWD)	30.10	ft
Depth to Groundwater (DGW)	17.46	ft
Length of Water Colum (LWC = TWD-DGW)	12.64	ft
1 Casing Volume (LWC*C) = ____ X .17 =	2.15	gals
3 Casing Volumes = 3 X ____ = (Standard Purge Volume)	6.45	gals

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.5	4.5	6.5				
Time (military)	1420	1425	1430	1435				
pH (s.u)	4.77	4.72	4.74	4.77				
Specific Conductivity	55.8	55.6	55.4	55.5				
Water Temperature (°C)	20.1	20.5	21.1	21.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.94	10.2	10.0	9.81				
Dissolved Oxygen (mg/l)	1.9	1.9	1.9	1.8				

Remarks:

well sampled @ 1435 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page 1 of 1

Date
Field Personnel
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:
serial no.
pH =4.0
pH = 7.0
pH = 10.0
DO Meter
Standard

Conductivity Sensor:
serial no.
Standard
Standard
Standard
Standard
Turbidity:

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 31.00 ft
Depth to Groundwater (DGW) ft
Length of Water Colum (LWC = TWD-DGW) ft
1 Casing Volume (LWC*C) = X .17 = gals
3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: well not accessible

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel mvp
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-12

Well Diameter (D) 2 inch of 30.90 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft		
Total Well Depth (TWD)	30.90	ft		
Depth to Groundwater (DGW)	20.41	ft		
Length of Water Colum (LWC = TWD-DGW)			10.49	ft
1 Casing Volume (LWC*C) =	____ X .17	=	1.78	gals
3 Casing Volumes = 3 X	____	=	5.34	gals
	(Standard Purge Volume)			

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.0	4.0	5.5				
Time (military)	1025	1028	1031	1034				
pH (s.u)	5.18	5.14	5.11	5.10				
Specific Conductivity	117.8	118.1	118.3	118.7				
Water Temperature (°C)	19.8	20.4	20.9	21.1				
Turbidity (subjective: clear, slightly cloudy, cloudy)	12.4	16.9	14.1	9.27				
Dissolved Oxygen (mg/l)	1.3	1.7	1.7	1.7				

Remarks:
well sampled @ 1034 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MVP
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-13

Well Diameter (D) 2 inch of 33.20 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness NA ft
Total Well Depth (TWD) 33.20 ft
Depth to Groundwater (DGW) 19.04 ft
Length of Water Colum (LWC = TWD-DGW) 14.16 ft
1 Casing Volume (LWC*C) = ____ X .17 = 2.41 gals
3 Casing Volumes = 3 X ____ = 7.23 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	~	2.5	5.0	7.5				
Time (military)	1102	1108	1114	1120				
pH (s.u)	4.78	4.73	4.71	4.69				
Specific Conductivity	69.2	68.9	68.8	68.4				
Water Temperature (°C)	19.8	20.2	20.8	20.9				
Turbidity (subjective: clear, slightly cloudy, cloudy)	10.3	12.4	11.7	9.16				
Dissolved Oxygen (mg/l)	1.8	1.8	1.8	1.8				

Remarks:

well sampled @ 1120 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MW
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-14

Well Diameter (D) 2 inch of 32.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft		
Total Well Depth (TWD)	32.00	ft		
Depth to Groundwater (DGW)	18.89	ft		
Length of Water Colum (LWC = TWD-DGW)			13.11	ft
1 Casing Volume (LWC*C) =		X .17 =	2.23	gals
3 Casing Volumes = 3 X		=	6.69	gals
	(Standard Purge Volume)			

Total Volume of Water Purged Before Sampling _____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2.5	5.0	2.0				
Time (military)	1236	1234	1238	1242				
pH (s.u)	5.00	4.93	4.89	4.86				
Specific Conductivity	74.6	74.1	73.9	23.8				
Water Temperature (°C)	20.2	20.8	21.1	21.5				
Turbidity (subjective: clear, slightly cloudy, cloudy)	12.9	13.4	11.7	9.81				
Dissolved Oxygen (mg/l)	1.2	1.2	1.2	1.2				

Remarks:

well Sampled @ 1242 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date
Field Personnel
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:		**Conductivity Sensor:**	
serial no.		serial no.	
pH =4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	
DO Meter		Standard	
Standard		**Turbidity:**	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D) 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	~~0.25~~ 1.06	ft
Total Well Depth (TWD)	33.50	ft
Depth to Groundwater (DGW)	18.78	ft
Length of Water Colum (LWC = TWD-DGW)	14.72	ft
1 Casing Volume (LWC*C) = ____ X .17 =	2.50	gals
3 Casing Volumes = 3 X ____ =	7.50	gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: well not sampled due to FPT > 0.01

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel MWP
General Weather Conditions Sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-16

Well Diameter (D) 2 inch of 34.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	NA	ft		
Total Well Depth (TWD)	34.40	ft		
Depth to Groundwater (DGW)	17.90	ft		
Length of Water Colum (LWC = TWD-DGW)			16.50	ft
1 Casing Volume (LWC*C) =		X .17 =	2.81	gals
3 Casing Volumes = 3 X		=	8.43	gals
	(Standard Purge Volume)			

Total Volume of Water Purged Before Sampling _____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	3.0	6.0	8.5				
Time (military)	1750	1355	1400	1405				
pH (s.u)	4.61	4.59	4.53	4.51				
Specific Conductivity	87.7	86.9	86.4	86.3				
Water Temperature (°C)	20.1	20.9	21.2	21.6				
Turbidity (subjective: clear, slightly cloudy, cloudy)	12.6	14.8	11.9	8.92				
Dissolved Oxygen (mg/l)	1.9	1.9	1.9	1.9				

Remarks:

Well Sampled @ 1405 on 1/28/16

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date
Field Personnel
General Weather Conditions
Ambient Air Temperature (°F)

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:
serial no.
pH =4.0
pH = 7.0
pH = 10.0
DO Meter
Standard

Conductivity Sensor:
serial no.
Standard
Standard
Standard
Standard
Turbidity:

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness 0.06 ~~2.90~~ ft
Total Well Depth (TWD) 35.00 ft
Depth to Groundwater (DGW) ~~20.01~~ ft
Length of Water Colum (LWC = TWD-DGW) 14.99 ft
1 Casing Volume (LWC*C) = _____ X .17 = 2.55 gals
3 Casing Volumes = 3 X _____ = 7.65 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: well not sampled due to FPT >0.01

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 1/28/16
Field Personnel mp
General Weather Conditions sunny
Ambient Air Temperature (°F) 60

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:
serial no.
pH =4.0
pH = 7.0
pH = 10.0
DO Meter
Standard

Conductivity Sensor:
serial no.
Standard
Standard
Standard
Standard
Turbidity:

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter (D) 2 inch of 35.60 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness ft
Total Well Depth (TWD) 35.60 ft
Depth to Groundwater (DGW) 19.86 ft
Length of Water Colum (LWC = TWD-DGW) 16.14 ft
1 Casing Volume (LWC*C) = X .17 = 2.74 gals
3 Casing Volumes = 3 X = 8.22 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	7.0	6.6	8.5				
Time (military)	1190	1137	1136	1139				
pH (s.u)	4.75	4.71	4.68	4.68				
Specific Conductivity	59.5	58.4	58.1	58.0				
Water Temperature (°C)	20.4	21.1	21.9	22.0				
Turbidity (subjective: clear, slightly cloudy, cloudy)	11.2	11.3	10.7	8.21				
Dissolved Oxygen (mg/l)	1.1	1.1	1.1	1.1				

Remarks:

well Sampled @ 1139 on 1/28/16

APPENDIX C

LABORATORY DATA SHEETS

Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: Former Ryder Terminal

Project Number: 1010-21

Lot Number: RA29031

Date Completed: 02/03/2016

Lucas Odom
Project Manager

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative

Bunnell-Lammons Engineering, Inc.

Lot Number: RA29031

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: RA29031

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	UST#11929 MW-1	Aqueous	01/28/2016 1054	01/29/2016
002	UST#11929 MW-2	Aqueous	01/28/2016 1219	01/29/2016
003	UST#11929 MW-2D	Aqueous	01/28/2016 1200	01/29/2016
004	UST#11929 MW-3R	Aqueous	01/28/2016 1012	01/29/2016
005	UST#11929 MW-3R DUP	Aqueous	01/28/2016 1013	01/29/2016
006	UST#11929 MW-5	Aqueous	01/28/2016 1307	01/29/2016
007	UST#11929 MW-9	Aqueous	01/28/2016 1335	01/29/2016
008	UST#11929 MW-10	Aqueous	01/28/2016 1435	01/29/2016
009	UST#11929 MW-12	Aqueous	01/28/2016 1034	01/29/2016
010	UST#11929 MW-13	Aqueous	01/28/2016 1120	01/29/2016
011	UST#11929 MW-14	Aqueous	01/28/2016 1242	01/29/2016
012	UST#11929 MW-16	Aqueous	01/28/2016 1405	01/29/2016
013	UST#11929 MW-18	Aqueous	01/28/2016 1139	01/29/2016
014	UST#11929 FB-1	Aqueous	01/28/2016 1500	01/29/2016
015	TRIP BLANK	Aqueous	01/28/2016	01/29/2016

(15 samples)

Executive Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: RA29031

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	UST#11929 MW-2	Aqueous	Benzene	8260B	25		ug/L	6
002	UST#11929 MW-2	Aqueous	Naphthalene	8260B	59		ug/L	6
002	UST#11929 MW-2	Aqueous	tert-butyl alcohol (TBA)	8260B	8.9	J	ug/L	6
002	UST#11929 MW-2	Aqueous	Xylenes (total)	8260B	33		ug/L	6
002	UST#11929 MW-2	Aqueous	1,2-Dibromoethane (EDB)	8011	0.013	J	ug/L	6
003	UST#11929 MW-2D	Aqueous	Naphthalene	8260B	0.57	J	ug/L	7
004	UST#11929 MW-3R	Aqueous	Benzene	8260B	0.42	J	ug/L	8
004	UST#11929 MW-3R	Aqueous	Naphthalene	8260B	1.4	J	ug/L	8
004	UST#11929 MW-3R	Aqueous	Xylenes (total)	8260B	0.77	J	ug/L	8
005	UST#11929 MW-3R DUP	Aqueous	Benzene	8260B	0.27	J	ug/L	9
005	UST#11929 MW-3R DUP	Aqueous	Naphthalene	8260B	0.72	J	ug/L	9
005	UST#11929 MW-3R DUP	Aqueous	Xylenes (total)	8260B	0.41	J	ug/L	9
010	UST#11929 MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	8.4	J	ug/L	14
010	UST#11929 MW-13	Aqueous	Benzene	8260B	43		ug/L	14
010	UST#11929 MW-13	Aqueous	Methyl tertiary butyl ether	8260B	0.39	J	ug/L	14
010	UST#11929 MW-13	Aqueous	Naphthalene	8260B	130		ug/L	14
010	UST#11929 MW-13	Aqueous	tert-butyl alcohol (TBA)	8260B	15	J	ug/L	14
010	UST#11929 MW-13	Aqueous	Xylenes (total)	8260B	100		ug/L	14
010	UST#11929 MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.058		ug/L	14
011	UST#11929 MW-14	Aqueous	tert-Amyl alcohol (TAA)	8260B	130		ug/L	15
011	UST#11929 MW-14	Aqueous	Benzene	8260B	140		ug/L	15
011	UST#11929 MW-14	Aqueous	Ethylbenzene	8260B	310		ug/L	15
011	UST#11929 MW-14	Aqueous	Naphthalene	8260B	100		ug/L	15
011	UST#11929 MW-14	Aqueous	tert-butyl alcohol (TBA)	8260B	19	J	ug/L	15
011	UST#11929 MW-14	Aqueous	Toluene	8260B	6.2	J	ug/L	15
011	UST#11929 MW-14	Aqueous	Xylenes (total)	8260B	8.9	J	ug/L	15
012	UST#11929 MW-16	Aqueous	Naphthalene	8260B	0.98	J	ug/L	16
013	UST#11929 MW-18	Aqueous	tert-Amyl alcohol (TAA)	8260B	9.4	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Benzene	8260B	100		ug/L	17
013	UST#11929 MW-18	Aqueous	Diisopropyl ether (IPE)	8260B	1.1	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Ethylbenzene	8260B	2.0	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Methyl tertiary butyl ether	8260B	5.5		ug/L	17
013	UST#11929 MW-18	Aqueous	Naphthalene	8260B	260		ug/L	17
013	UST#11929 MW-18	Aqueous	tert-butyl alcohol (TBA)	8260B	18	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Toluene	8260B	0.68	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Xylenes (total)	8260B	82		ug/L	17
013	UST#11929 MW-18	Aqueous	1,2-Dibromoethane (EDB)	8011	0.13		ug/L	17

(37 detections)

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: RA29031-001
Description: UST#11929 MW-1
Matrix: Aqueous
Date Sampled: 01/28/2016 1054
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1326	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		89	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1353	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: RA29031-002
Description: UST#11929 MW-2
Matrix: Aqueous
Date Sampled: 01/28/2016 1219
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1348	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	25		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	59		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	8.9	J	20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	33		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1424	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.013	J	0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-003
Description: UST#11929 MW-2D | Matrix: Aqueous
Date Sampled: 01/28/2016 1200
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1410	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	0.57	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1435	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-004
Description: UST#11929 MW-3R | Matrix: Aqueous
Date Sampled: 01/28/2016 1012
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1432	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	0.42	J	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	1.4	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.77	J	5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		89	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1445	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-005
Description: UST#11929 MW-3R DUP | Matrix: Aqueous
Date Sampled: 01/28/2016 1013
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1454	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	0.27	J	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	0.72	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.41	J	5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		88	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1455	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-006
Description: UST#11929 MW-5 | Matrix: Aqueous
Date Sampled: 01/28/2016 1307
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1516	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		88	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1505	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		103	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-007
Description: UST#11929 MW-9 | Matrix: Aqueous
Date Sampled: 01/28/2016 1335
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1538	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		89	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1516	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-008
Description: UST#11929 MW-10 | Matrix: Aqueous
Date Sampled: 01/28/2016 1435
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1600	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1526	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		98	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-009
Description: UST#11929 MW-12 | Matrix: Aqueous
Date Sampled: 01/28/2016 1034
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1622	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		89	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1536	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-010
Description: UST#11929 MW-13 | Matrix: Aqueous
Date Sampled: 01/28/2016 1120
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1644	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	8.4	J	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	43		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	0.39	J	5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	130		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	15	J	20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	100		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1547	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.058		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-011
Description: UST#11929 MW-14 | Matrix: Aqueous
Date Sampled: 01/28/2016 1242
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	02/01/2016 1750	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	130		100	7.3	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	1
Benzene	71-43-2	8260B	140		25	1.1	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.2	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	1.3	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	1
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1
Ethylbenzene	100-41-4	8260B	310		25	1.1	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	0.65	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	1.2	ug/L	1
Naphthalene	91-20-3	8260B	100		25	0.70	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	19	J	100	11	ug/L	1
Toluene	108-88-3	8260B	6.2	J	25	1.2	ug/L	1
Xylenes (total)	1330-20-7	8260B	8.9	J	25	1.6	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		89	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1557	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: RA29031-012
Description: UST#11929 MW-16
Matrix: Aqueous
Date Sampled: 01/28/2016 1405
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1706	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	0.98	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		89	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1607	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: RA29031-013
Description: UST#11929 MW-18 | Matrix: Aqueous
Date Sampled: 01/28/2016 1139
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1728	JM1		95468
2	5030B	8260B	5	02/02/2016 1303	JM1		95558

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	9.4	J	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	100		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	1.1	J	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	2.0	J	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	5.5		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	260		25	0.70	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	18	J	20	2.3	ug/L	1
Toluene	108-88-3	8260B	0.68	J	5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	82		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130		91	70-130
Bromofluorobenzene		87	70-130		93	70-130
Toluene-d8		89	70-130		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1618	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.13		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		117	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: RA29031-014
Description: UST#11929 FB-1
Matrix: Aqueous
Date Sampled: 01/28/2016 1500
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1136	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/02/2016 1628	MEM	02/02/2016 1010	95535

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: RA29031-015
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 01/28/2016
Date Received: 01/29/2016

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1158	JM1		95468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ95468-001
Batch: 95468
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	1.5	ug/L	02/01/2016 1017
tert-Amyl methyl ether (TAME)	ND		1	10	0.25	ug/L	02/01/2016 1017
Benzene	ND		1	5.0	0.21	ug/L	02/01/2016 1017
tert-Butyl formate (TBF)	ND		1	5.0	0.66	ug/L	02/01/2016 1017
1,2-Dichloroethane	ND		1	5.0	0.23	ug/L	02/01/2016 1017
Diisopropyl ether (IPE)	ND		1	5.0	0.26	ug/L	02/01/2016 1017
3,3-Dimethyl-1-butanol	ND		1	20	1.5	ug/L	02/01/2016 1017
Ethanol	ND		1	100	19	ug/L	02/01/2016 1017
Ethylbenzene	ND		1	5.0	0.21	ug/L	02/01/2016 1017
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.13	ug/L	02/01/2016 1017
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.23	ug/L	02/01/2016 1017
Naphthalene	ND		1	5.0	0.14	ug/L	02/01/2016 1017
tert-butyl alcohol (TBA)	ND		1	20	2.3	ug/L	02/01/2016 1017
Toluene	ND		1	5.0	0.24	ug/L	02/01/2016 1017
Xylenes (total)	ND		1	5.0	0.32	ug/L	02/01/2016 1017

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	70-130
1,2-Dichloroethane-d4		83	70-130
Toluene-d8		89	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ95468-002
Batch: 95468
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	730		1	73	70-130	02/01/2016 0918
tert-Amyl methyl ether (TAME)	50	49		1	98	70-130	02/01/2016 0918
Benzene	50	48		1	97	70-130	02/01/2016 0918
tert-Butyl formate (TBF)	250	230		1	90	70-130	02/01/2016 0918
1,2-Dichloroethane	50	47		1	95	70-130	02/01/2016 0918
Diisopropyl ether (IPE)	50	47		1	93	70-130	02/01/2016 0918
3,3-Dimethyl-1-butanol	1000	760		1	76	70-130	02/01/2016 0918
Ethanol	5000	3100		1	61	60-140	02/01/2016 0918
Ethylbenzene	50	50		1	100	70-130	02/01/2016 0918
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	70-130	02/01/2016 0918
Methyl tertiary butyl ether (MTBE)	50	50		1	101	70-130	02/01/2016 0918
Naphthalene	50	47		1	93	70-130	02/01/2016 0918
tert-butyl alcohol (TBA)	1000	740		1	74	70-130	02/01/2016 0918
Toluene	50	49		1	99	70-130	02/01/2016 0918
Xylenes (total)	100	99		1	99	70-130	02/01/2016 0918

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		81	70-130
Toluene-d8		89	70-130

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: RA29031-011MS
Batch: 95468
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	130	5000	4100		5	79	70-130	02/01/2016 1813
tert-Amyl methyl ether (TAME)	ND	250	240		5	97	70-130	02/01/2016 1813
Benzene	140	250	390		5	99	70-130	02/01/2016 1813
tert-Butyl formate (TBF)	ND	1300	120	N	5	9.7	70-130	02/01/2016 1813
1,2-Dichloroethane	ND	250	240		5	97	70-130	02/01/2016 1813
Diisopropyl ether (IPE)	ND	250	230		5	94	70-130	02/01/2016 1813
3,3-Dimethyl-1-butanol	ND	5000	4100		5	82	70-130	02/01/2016 1813
Ethanol	ND	25000	25000		5	100	70-130	02/01/2016 1813
Ethylbenzene	310	250	560		5	99	70-130	02/01/2016 1813
Ethyl-tert-butyl ether (ETBE)	ND	250	220		5	89	70-130	02/01/2016 1813
Methyl tertiary butyl ether (MTBE)	ND	250	240		5	98	70-130	02/01/2016 1813
Naphthalene	100	250	330		5	90	70-130	02/01/2016 1813
tert-butyl alcohol (TBA)	19	5000	4700		5	94	70-130	02/01/2016 1813
Toluene	6.2	250	260		5	100	70-130	02/01/2016 1813
Xylenes (total)	8.9	500	510		5	100	70-130	02/01/2016 1813

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		89	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: RA29031-011MD
Batch: 95468
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	130	5000	4000		5	78	0.82	70-130	20	02/01/2016 1835
tert-Amyl methyl ether (TAME)	ND	250	240		5	96	1.9	70-130	20	02/01/2016 1835
Benzene	140	250	380		5	97	1.4	70-130	20	02/01/2016 1835
tert-Butyl formate (TBF)	ND	1300	110	N	5	8.9	8.3	70-130	20	02/01/2016 1835
1,2-Dichloroethane	ND	250	240		5	96	0.54	70-130	20	02/01/2016 1835
Diisopropyl ether (IPE)	ND	250	230		5	91	2.7	70-130	20	02/01/2016 1835
3,3-Dimethyl-1-butanol	ND	5000	4100		5	81	0.48	70-130	20	02/01/2016 1835
Ethanol	ND	25000	25000		5	99	0.82	70-130	20	02/01/2016 1835
Ethylbenzene	310	250	550		5	93	2.3	70-130	20	02/01/2016 1835
Ethyl-tert-butyl ether (ETBE)	ND	250	220		5	88	1.1	70-130	20	02/01/2016 1835
Methyl tertiary butyl ether (MTBE)	ND	250	240		5	94	3.7	70-130	20	02/01/2016 1835
Naphthalene	100	250	320		5	88	1.5	70-130	20	02/01/2016 1835
tert-butyl alcohol (TBA)	19	5000	4700		5	94	0.18	70-130	20	02/01/2016 1835
Toluene	6.2	250	250		5	98	1.9	70-130	20	02/01/2016 1835
Xylenes (total)	8.9	500	500		5	98	1.9	70-130	20	02/01/2016 1835

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		89	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ95558-001
Batch: 95558
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Naphthalene	ND		1	5.0	0.14	ug/L	02/02/2016 1031

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ95558-002
Batch: 95558
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	45		1	90	70-130	02/02/2016 0930

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: RQ95535-001
Batch: 95535
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/02/2016 1010

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	02/02/2016 1322

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: RQ95535-002
Batch: 95535
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/02/2016 1010

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.22		1	88	60-140	02/02/2016 1333

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		102	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MS

Sample ID: RA29031-001MS
Batch: 95535
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/02/2016 1010

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.22		1	93	60-140	02/02/2016 1404

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		98	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MSD

Sample ID: RA29031-001MD
Batch: 95535
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 02/02/2016 1010

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.23		1	92	0.67	60-140	20	02/02/2016 1414

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		92	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

SHEALY

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 56129

Client: BLE	Report to Contact: Trevor Benton	Telephone No. / E-mail: Trevor @ Blecorp.com	Quote No.
Address: 6004 Ponders Court	Sampler's Signature: x [signature]	Analysis (Attach list if more space is needed)	Page 1 of 2
City: Greenville State: SC Zip Code: 29611	Printed Name: Michael Parks		RA29031
Project Name: Former Ryder Terminal	P.O. No.		
Project No.: 1016-21			Remarks / Cooler I.D.

No. of Containers by Preservative Type: Unpres., H_2SO_4, HNO_3, HCl, NaOH, 5035 Kit

Analysis: BTEX, Naph, Fuel oxy (8260); 1,2 DCA EDB (8011)

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	Unpres.	H_2SO_4	HNO_3	HCl	NaOH	5035 Kit	BTEX, Naph, Fuel oxy (8260)	1,2 DCA EDB (8011)	Remarks / Cooler I.D.
#11929 MW-1	1/28/16	1054	G	✓						6			✓	✓	
#11929 MW-2	↓	1219	↓	↓						↓			↓	↓	
#11929 MW-2D	↓	1400	↓	↓						↓			↓	↓	
#11929 MW-7R	↓	1012	↓	↓						↓			↓	↓	
#11929 MW-7R Dup	↓	1017	↓	↓						↓			↓	↓	
#11929 MW-5	↓	1307	↓	↓						↓			↓	↓	
#11929 MW-9	↓	1335	↓	↓						↓			↓	↓	
#11929 MW-10	↓	1425	↓	↓						↓			↓	↓	
#11929 MW-12	↓	1074	↓	↓						↓			↓	↓	
#11929 MW-13	↓	1120	↓	↓						↓			↓	↓	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

Relinquished by	Date	Time	Received by	Date	Time
1. [signature]	1/29/16	1048	1. [signature]	1/29/16	1048
2. [signature]	1/29/16	1445	2. Rachel Andrews	1-29-16	1445
3. Rachel Andrews	1-29-16	1530	3.		
4.			4. Laboratory received by [signature]	1/29/16	1530

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 2.3 °C

Document Number: F-AD-133 Effective Date: 08-01-2014

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

SHEALY

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 56130

Client: BLE	Report to Contact: Trevor Benton	Telephone No. / E-mail: Trevor@blecorp.com	Quote No.
Address: 6004 Ponders Court	Sampler's Signature: x [signature]	Analysis (Attach list if more space is needed)	Page 2 of 2
City: Greenville State: SC Zip Code: 29615	Printed Name: Michael Parks		RA29031
Project Name: Farmer Ryder Terminal			
Project No.: 1010-21 P.O. No.			

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G-Grab C-Composite	Aqueous	Solid	Non-Aqueous	Unpres	H_2SO_4	HNO_3	HCl	NaOH	Other	BTEX, Naph, 1,2-DCA (8260)	EDB (8011)	Remarks / Cooler I.D.
49 #11929 MW-14	1/28/16	1244	G	✓						6			✓	✓	
# 11929 MW-16	↓	1405	↓	↓						↓			↓	↓	
# 11929 MW-19	↓	1179	↓	↓						↓			↓	↓	
# 11929 FB-1	↓	1500	↓	↓						↓			↓	↓	
Trip Blank										2					

Turn Around Time Required (Prior lab approval required for expedited TAT.) ✓ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ✓ Disposal by Lab

Possible Hazard Identification ✓ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by [signature]	1/29/16	1048	1. Received by [signature]	1/29/16	1048
2. Relinquished by [signature]	1/29/16	1445	2. Received by [signature]	1-29-16	1445
3. Relinquished by [signature]	1-29-16	1530	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by [signature]	1/29/16	1530

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 2.7 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-135 Effective Date: 09-01-2014

Shealy Environmental Services, Inc.
Document Number: ME001RC 03

Page 1 of 1
Effective Date: 01/16/2015
Expiry Date: 01/16/2021

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: [illegible] / 01/29/16 Lot #: 162903-1

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
pH strip ID: _____ Cl strip ID: _____ Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 2.3/2.3 °C / / °C / / °C / / °C Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0.6 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM was notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO3, HCl, NaOH) using SR # _____.			
Sample(s) _____ were received with bubbles >6 mm in diameter.			
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)			
SC Drinking Water Project Sample(s) pH verified to be ≥2 by _____ Date: _____ Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____			
Sample labels applied by: MCKM Verified by: _____ Date: 1/29/16			

Comments: [illegible] 1/29/16

APPENDIX D

CONTRACTOR CHECKLIST

Contractor Checklist

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

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

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

Explanation for missing and incomplete information?

Project Verifier (signature) 

(print name) Trevor J. Benton, P.G.

Date 04-08-2016

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

June 23, 2016

MR THOMAS TRIPP
FROEHLING & ROBERTSON INC
18 WOODS LAKE ROAD
GREENVILLE SC 29607

Re: **Concern Letter**
Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC
UST Permit #11929
Release #2 reported February 25, 1997
Letter of Concern request received June 9, 2016
Greenville County

Mr. Tripp:

In response to your request for information about environmental conditions and liability associated with the referenced facility, the following is provided.

According to records kept by the UST Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency), there were five USTs registered and operated at this facility by Lloyd D Auten. Agency records indicate that Lloyd D Auten removed these five tanks by abandonment on May 1, 1989. On February 25, 1997, the Agency received a report documenting petroleum contamination in the subsurface in the vicinity of the USTs. In response to the initial report of contamination, the Division directed Lloyd D Auten, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. As of August 17, 2006, the assessment of this release has been completed and has proceeded to corrective action. The next scope of work at this site is a groundwater sampling event.

The Division would also like to clarify for you the financial and liability issues surrounding the petroleum chemicals of concern at this facility. The release of petroleum products from UST Permit #11929 is qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs to 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.

The Division 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 Agency 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.

Due to the presence of the contaminant plume on the facility property, the Division advises against installing a water supply well for drinking, cooking, or bathing purposes. If you should choose to install a water supply well for these purposes at this time, it is at the discretion of the property owner.

On all correspondence or inquiries regarding this project, please reference UST Permit #11929. If you have any questions or need additional information, you can reach me at phone at (803) 898-0614 or by email at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT
Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: ✓Technical File

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

MS INGRID AUTEN
C/O ANNIE MUMBAUER
PO BOX 408
GREENVILLE SC 29602

JUL 18 2016

Re: **Aggressive Fluid and Vapor Recovery Directive**
Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC
UST Permit # 11929; CA# 52869
Release #2 reported February 25, 1997
Groundwater Sampling Report received April 13, 2016
Greenville County

Dear Ms. Auten:

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 Bunnell-Lammons Engineering, Inc., as your contractor. The next appropriate scope of work is an aggressive fluid and vapor recovery (AFVR) event to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC), followed by a gauging event.

Please have your contractor conduct two 96 hour AFVR events utilizing MW-4, MW-6, MW-15, and MW-17. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 27 feet in MW-4 & MW-6, and a target depth of 30 feet in MW-15 & MW-17. Please advance to the target depth within the first eight (8) hours of the events. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while continuing to dewater the smear zone. Off gas treatment is necessary for these events. After at least thirty (30) days following the second event, the referenced wells should be gauged for current free-phase product levels. These events must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 3.0. A copy of the QAPP Revision 3.0 is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

Cost Agreement #52869 has been approved in the amount shown on the enclosed cost agreement form for the AFVR event. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

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

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this

invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

On all correspondence concerning this facility, please reference UST Permit #11929 and Cost Agreement #52869. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0614, by fax at (803) 898-0673, or by e-mail at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT
Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct, Greenville, SC 29615 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 52869

Facility 11929 FORMER RYDER TERMINAL
BARNESKT
PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B1	PERSONNEL	1 0000	$423 000	423 00
10 SAMPLE COLLECTION						
		E1	GAUGE WELL ONLY	4.0000	$7.000	28.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	$45,783 750	5,494 05
23 EFR						
		A4	96 HOUR EVENT	2 0000	$12,567.500	25,135 00
		C4	OFF GAS TREATMENT 96 HOUR	2 0000	$780 000	1,560 00
		D	SITE RECONNAISSANCE	1.0000	$203.250	203.25
		E1	ADDITIONAL WELL HOOK-UPS	2 0000	$25.750	51.50
		F1	EFFLUENT DISPOSAL	40,000.0000	$0 440	17,600.00
		G	AFVR EQUIPMENT MOB	2.0000	$391.500	783.00
				Total Amount		51,277 80

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 2-3-17

Permit Number 11929

Project Manager Kevin Barnes

Name of Contractor _____

UST Certification Number _____

Docket Number 35 +

Scanned _____

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

FORMER RYDER TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #52869

Prepared For

Ms. Ingrid Auten
C/O Ms. Annie Mumbauer
BB&T Wealth Management
P.O. Box 408
Greenville, South Carolina 29602

Prepared By

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

January 31, 2017

BLE Project Number J16-1010-22

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

January 31, 2017

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Kevin T. Barnes, GIT
Hydrogeologist

Subject: **Report of Multiple Aggressive Fluid Vapor Recovery Events**
Former Ryder Terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929; CA #52869
BLE Project No. J16-1010-22

Dear Mr. Barnes:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed two Aggressive Fluid Vapor Recovery (AFVR) Events at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated July 18, 2016. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 296025

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE (864) 288-1265
FAX (864) 288-4430

SITE INFORMATION

Facility Identification:

Facility Name	Former Ryder Terminal
UST Permit Number	11929
Facility Address	10 Woods Lake Drive Greenville, South Carolina 29607

Release Information:

Release #	Date Reported	Quantity	Cause	Status
1	January 5, 1990	Unknown	Unknown	No Further Action – January 5, 1990
2	February 25, 1997	Unknown	Unknown	Open

Responsible Party:

Name	Ms. Ingrid Auten
Address	PO Box 408 Greenville, South Carolina 29602

Property Owner Information:

Name	Wheeler Properties, LLC
Address	10 Woods Lake Drive Greenville, South Carolina 29607

Current Site Use: Vacant

UST Site Rehabilitation Contractor:

Name	Bunnell-Lammons Engineering, Inc.
Address	6004 Ponders Court Greenville, South Carolina 29615
Phone	(864) 288-1265
Certification Number	UCC-0010

AFVR Contractor Information:

AFVR Contractor	Landprobe Drilling Services, LLC
Address	PO Box 25608 Greenville, South Carolina 29616

UST System Summary:

UST #	Size (Gallons)	Product	Currently in use (Yes or No)	If not in use, Date Removed
1	20,000	Diesel	No	Removed – May 1, 1989
2	5,000	Diesel	No	Removed – May 1, 1989
3	6,000	Gasoline	No	Removed – May 1, 1989
4	5,000	Gasoline	No	Removed – May 1, 1989
5	550	Unknown	No	Removed – May 1, 1989

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

On September 28, 2016, BLE personnel mobilized to the facility to evaluate site access and to determine staging locations for the AFVR equipment. From October 3-7, 2016 and October 10-14, 2016, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform a 96-hour AFVR event. Personnel from BLE's Greenville, South Carolina office were on-site for observation and monitoring during the event. A site location map and an AFVR well location plan are provided as Figure 1 and 2, respectively. A summary of the AFVR events are provided below.

AFVR Event #1 – October 3-7, 2016

AFVR Well(s)	MW-4, MW-6, MW-15, and MW-17
Gauged Well(s)	MW-16 and MW-18
Pre-AFVR Free-Product	0.02-feet in MW-2, 1.03-feet in MW-6, 1.30-

Thickness	feet in MW-15, and 0.17-feet in MW-17
Post-AFVR Free-Product Thickness	<0.01-feet in MW-4, <0.01-feet in MW-6, 0.08-feet in MW-15, and 2.01-feet in MW-17
Length of AFVR Event	96 hours
Total Volume of Liquid Removed	4,041 gallons
Volume of Free-Product in Holding Tank	2.5 gallons
Total Pounds of Free-Product Recovered (Vapor)	15.1 pounds
Total Gallons of Free-Product Recovered (Vapor)	2.4 gallons
General Weather Conditions	10/03/16 – Clear, Average 73°F 10/04/16 - Clear, Average 72°F 10/05/16 - Clear, Average 69°F 10/06/16 – Clear, Average 68°F 10/07/16 – Rain, Average 66°F

Pertinent data collected throughout the AFVR event is included in Table 1 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

AFVR Event #1 – October 3-7, 2016

AFVR Well(s)	MW-4, MW-6, MW-15, and MW-17
Gauged Well(s)	MW-16 and MW-18
Pre-AFVR Free-Product Thickness	<0.01-feet in MW-2, <0.01-feet in MW-6, 0.08-feet in MW-15, and 2.01-feet in MW-17
Post-AFVR Free-Product Thickness	<0.01-feet in MW-4, <0.01-feet in MW-6, 0.03-feet in MW-15, and 0.48-feet in MW-17
Length of AFVR Event	96 hours

Total Volume of Liquid Removed	2,971 gallons
Volume of Free-Product in Holding Tank	1.5 gallons
Total Pounds of Free-Product Recovered (Vapor)	5.1 pounds
Total Gallons of Free-Product Recovered (Vapor)	0.8 gallons
General Weather Conditions	10/10/16 – Clear, Average 63°F 10/11/16 - Clear, Average 61°F 10/12/16 - Clear, Average 60°F 10/13/16 – Clear, Average 66°F 10/14/16 – Rain, Average 66°F

Pertinent data collected throughout the AFVR event is included in Table 2 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

POST AFVR GAUGING

On November 22, 2016, BLE personnel mobilized to the site to gauge free product and/or groundwater in monitoring wells MW-4, MW-6, MW-15, and MW-17. The following table documents the free product / groundwater levels.

Monitoring Well ID	Depth to Free-Product (feet-below ground surface)	Depth to Groundwater (feet-below ground surface)	Free-Product Thickness (feet)
MW-4	24.85	25.00	0.15
MW-6	26.18	26.71	0.53
MW-15	24.66	25.17	0.51
MW-17	25.18	25.96	0.76

CONCLUSIONS

Two 96-hour AFVR events were conducted on monitoring wells on MW-4, MW-6, MW-15, and MW-17 at the subject site. At the completion of the AFVR events, a total volume of 7,012-gallons

of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 4.0 gallons of free-phase petroleum product was measured in the holding tanks and 3.2 gallons of gasoline were calculated to have been recovered via vapor-phase emissions. Additional petroleum product emulsified in the groundwater and/or volatilized during the AFVR event, could not be quantified.

RECOMMENDATIONS

As free-product continues to persist in monitoring wells MW-4, MW-6, MW-15, and MW-17, we recommend performing two additional 96-hour AFVR events to: 1) remove free-phase and residual free-phase petroleum product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface.

Approximately thirty days after completion of the AFVR events, we recommend a comprehensive groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current site-wide CoC concentration data, and to monitor CoC concentration trends.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

AFVR Event Data
October 3-7, 2016
Former Ryder Terminal
Greenville, Greenville County, SC
SCDHEC UST Permit #11929; Cost Agreement #52869
BLE Project Number J16-1010-22

			Monitoring Well Gauging Data										AFVR Field Measurements				Air Emissions		
			AFVR Well Vacuum (in. of Hg)				AFVR Well Stinger Depths (feet btoc)				Adjacent Well Vacuum (in. of Hg)		Vacuum at Pump (in. Hg)	Temperature (^{o}F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW16	11929-MW18							
10/03/16	10:00	0.0	12.0	15.0	15.0	11.0	23.0	25.0	24.0	23.5	0.0	0.0	17.0	95.1	86.2	2,165	189	229.9	0.0
10/03/16	10:30	0.5	13.0	16.0	17.0	11.0	23.5	25.5	24.5	24.0	0.0	0.0	17.0	115.7	88.7	1,922	168	150.7	0.0
10/03/16	11:00	1.0	13.0	17.0	17.0	11.0	24.0	26.0	25.0	24.5	0.0	0.0	18.0	126.3	89.2	1,541	134	110.3	0.0
10/03/16	11:30	1.5	14.0	18.0	17.0	11.0	24.5	26.5	25.5	25.0	0.0	0.0	18.0	126.7	90.1	1,769	154	98.2	0.0
10/03/16	12:00	2.0	15.0	18.0	17.0	11.0	25.0	27.0	26.0	25.5	0.0	0.0	19.0	126.2	90.0	1,326	116	91.7	0.0
10/03/16	12:30	2.5	15.0	18.0	17.0	11.0	25.5	27.0	26.5	26.0	0.0	0.0	19.0	124.5	88.6	1,445	126	132.8	0.0
10/03/16	13:00	3.0	15.0	18.0	17.0	11.0	26.0	27.0	27.0	26.5	0.0	0.0	18.0	125.1	89.1	1,524	133	141.2	0.0
10/03/16	13:30	3.5	15.0	18.0	16.0	11.0	26.5	27.0	27.5	27.0	0.0	0.0	18.0	125.0	89.6	1,497	131	137.8	0.0
10/03/16	14:00	4.0	15.0	18.0	15.0	11.0	27.0	27.0	28.0	27.5	0.0	0.0	18.0	125.4	83.7	1,784	156	149.3	0.0
10/03/16	14:30	4.5	14.0	17.0	15.0	11.0	27.0	27.0	28.5	28.0	0.0	0.0	18.0	124.4	85.9	1,895	165	157.3	0.0
10/03/16	15:00	5.0	14.0	17.0	15.0	11.0	27.0	27.0	29.0	28.5	0.0	0.0	17.5	122.7	85.3	1,919	167	104.7	0.0
10/03/16	15:30	5.5	14.0	17.0	15.0	11.0	27.0	27.0	29.5	29.0	0.0	0.0	17.5	120.8	81.9	2,063	180	111.9	0.0
10/03/16	16:00	6.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	29.5	0.0	0.0	17.5	119.5	82.7	2,165	189	118.7	0.0
10/03/16	16:30	6.5	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	17.5	120.2	84.6	1,762	154	112.4	0.0
10/03/16	17:00	7.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	124.5	87.7	1,687	147	121.7	0.1
10/03/16	17:30	7.5	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	122.7	88.1	1,733	151	104.3	0.1
10/03/16	18:00	8.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	124.9	88.3	2,062	180	106.9	0.1
10/03/16	19:00	9.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	123.7	86.5	1,834	160	107.1	0.1
10/03/16	20:00	10.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	122.8	84.8	1,769	154	104.3	0.1
10/03/16	21:00	11.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	122.7	85.3	1,844	161	105.2	0.1
10/03/16	22:00	12.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	20.0	118.4	82.6	1,624	142	104.1	0.1
10/03/16	23:00	13.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	20.0	112.2	76.5	2,165	189	100.2	0.1
10/04/16	00:00	14.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	17.0	110.4	81.9	2,233	195	101.9	0.1
10/04/16	08:00	22.0	14.0	17.0	17.0	11.0	25.0	25.0	28.0	28.0	0.0	0.0	18.0	100.3	82.7	2,119	185	97.8	0.1
10/04/16	09:00	23.0	14.0	17.0	17.0	11.0	25.5	25.5	28.5	28.5	0.0	0.0	17.0	112.7	85.6	2,065	180	96.3	0.1
10/04/16	10:00	24.0	17.0	17.0	17.0	17.0	26.0	26.0	29.0	29.0	0.0	0.0	20.0	124.6	89.9	2,116	193	97.4	0.1
10/04/16	12:00	26.0	20.0	17.0	20.0	22.0	26.5	26.5	29.5	29.5	0.0	0.0	23.0	126.8	94.3	2,214	192	98.6	0.1
10/04/16	14:00	28.0	17.0	21.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	130.1	62.9	2,202	231	113.0	11.7
10/04/16	16:00	30.0	17.0	20.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	121.3	74.6	2,645	215	91.4	5.7
10/04/16	18:00	32.0	17.0	16.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	17.0	127.0	84.5	2,467	187	155.5	0.9
10/04/16	20:00	34.0	14.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	137.0	88.8	2,143	189	126.9	3.3
10/04/16	22:00	36.0	14.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	19.0	74.6	82.6	2,165	168	97.8	3.1
10/05/16	00:00	38.0	14.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	84.7	84.7	1,921	176	96.7	4.2
10/05/16	08:00	46.0	14.0	17.0	14.0	17.0	25.0	25.0	28.0	28.0	0.0	0.0	22.0	92.9	88.9	2,016	148	94.7	4.2
10/05/16	10:00	48.0	20.0	17.0	18.0	20.0	25.5	25.5	28.5	28.5	0.0	0.0	22.0	100.4	89.9	1,692	148	96.9	4.2
10/05/16	12:00	50.0	17.0	15.0	17.0	20.0	26.0	26.0	29.0	29.0	0.0	0.0	22.0	137.3	87.5	1,696	211	91.5	4.2
10/05/16	14:00	52.0	15.0	17.0	17.0	17.0	26.5	26.5	29.5	29.5	0.0	0.0	18.0	133.7	88.8	2,422	100	78.6	5.7
10/05/16	16:00	54.0	15.0	16.0	17.0	16.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	137.0	87.0	1,150	157	108.4	7.2
10/05/16	18:00	56.0	15.0	15.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	131.5	89.0	1,799	196	140.7	8.4
10/05/16	20:00	58.0	15.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	134.2	88.5	2,250	147	138.6	8.2
10/05/16	22:00	60.0	15.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	129.6	89.1	1,690	186	129.4	7.9
10/06/16	00:00	62.0	15.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	131.7	87.3	2,130	180	99.3	8.0
10/06/16	08:00	70.0	15.0	17.0	17.0	17.0	25.0	25.0	28.0	28.0	0.0	0.0	20.0	124.8	92.6	2,062	171	98.1	8.0
10/06/16	10:00	72.0	15.0	17.0	17.0	14.0	25.5	25.5	28.5	28.5	0.0	0.0	20.0	134.7	96.1	1,964	168	96.4	8.0
10/06/16	12:00	74.0	15.0	17.0	20.0	17.0	26.0	26.0	29.0	29.0	0.0	0.0	20.0	132.6	94.3	1,923	214	92.7	8.0
10/06/16	14:00	76.0	17.0	21.0	19.0	17.0	26.5	26.5	29.5	29.5	0.0	0.0	22.0	124.5	88.5	2,457	164	225.7	5.8
10/06/16	16:00	78.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	137.1	88.0	1,877	144	167.7	6.4
10/06/16	18:00	80.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	134.0	87.5	1,647	90	174.2	7.9
10/06/16	20:00	82.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	146.0	88.3	1,034	93	121.9	7.9
10/06/16	22:00	84.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	137.9	81.6	1,060	108	176.8	8.4
10/07/16	00:00	86.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	105.6	78.3	1,242	147	180.3	8.4
10/07/16	08:00	94.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	115.7	79.9	1,684	178	167.2	8.6
10/07/16	10:00	96.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	124.8	78.7	2,036	164	152.9	8.8

Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
11929-MW04	22.98	23.00	0.02	NFPP	25.65	NFPP	2.65
11929-MW06	24.22	25.25	1.03	NFPP	28.16	NFPP	2.91
11919-MW15	22.70	24.00	1.30	27.04	27.12	0.08	3.12
11929-MW17	23.41	23.58	0.17	24.41	26.42	2.01	2.84
11929-MW16	NFPP	22.47	NFPP	NFPP	23.12	NFPP	0.65
11929-MW18	NFPP	23.47	NFPP	NFPP	24.19	NFPP	0.72

Recovery Information	
Total Volume of Water (gallons)	4,041
Total Volume of FPP (gallons)	2.5
Total Calculated Carbon Recovered as Emissions (pounds)	13.0
Total Calculated Gasoline Recovered as Emissions (pounds)	15.1
Total Calculated Gasoline Recovered as Emissions (gallons)	2.4

Notes: 4-inch diameter stack size
btoc - below top of casing
Vapor concentrations measured with portable Ion Science PhoCheck 1000.
PID - Photo - Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPP - No Free Phase Product
^{o}F - Fahrenheit
CFM - Cubic Feet per Minute
FPP - Free-Phase Product

Prepared By: DRM
Checked By: TJB

TABLE 2

AFVR Event Data
October 10-14, 2016
Former Ryder Terminal
Greenville, Greenville County, SC
SCDHEC UST Permit #11929; Cost Agreement #52869
BLE Project Number J16-1010-22

			Monitoring Well Gauging Data										AFVR Field Measurements				Air Emissions		
			AFVR Well Vacuum (in. of Hg)				AFVR Well Stinger Depths (feet btoc)				Adjacent Well Vacuum (in. of Hg)		Vacuum at Pump (in. Hg)	Temperature (^{o}F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW16	11929-MW18							
10/10/16	16:00	0.0	17.0	17.0	19.0	20.0	25.5	28.0	27.0	26.5	0.0	0.0	22.0	107.8	93.7	594	52	86.0	5.6
10/10/16	16:30	0.5	17.0	17.0	19.0	20.0	26.0	28.5	27.5	27.0	0.0	0.0	22.0	111.0	94.0	570	50	103.9	4.0
10/10/16	17:00	1.0	17.0	17.0	19.0	20.0	26.5	29.0	28.0	27.5	0.0	0.0	22.0	111.0	93.6	690	60	92.1	1.7
10/10/16	17:30	1.5	17.0	17.0	20.0	21.0	27.0	29.0	28.5	28.0	0.0	0.0	22.0	108.9	93.2	750	65	88.8	6.4
10/10/16	18:00	2.0	17.0	17.0	20.0	21.0	27.0	29.0	29.0	28.5	0.0	0.0	22.0	161.2	92.1	484	42	90.0	6.8
10/10/16	18:30	2.5	17.0	17.0	20.0	20.0	27.0	29.0	29.5	29.0	0.0	0.0	22.0	107.6	93.1	520	45	96.4	6.2
10/10/16	19:00	3.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	29.5	0.0	0.0	22.0	108.5	93.6	680	59	93.2	3.0
10/10/16	19:30	3.5	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.9	94.0	640	56	77.2	1.6
10/10/16	20:00	4.0	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.9	94.0	620	54	66.3	14.9
10/10/16	20:30	4.5	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	98.8	95.0	520	45	87.6	3.5
10/10/16	21:00	5.0	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	98.4	94.3	490	43	81.0	2.2
10/10/16	21:30	5.5	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	96.6	94.0	430	38	93.6	2.5
10/10/16	22:00	6.0	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	103.1	93.5	471	41	87.2	4.1
10/10/16	22:30	6.5	15.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	103.6	92.6	571	50	98.3	1.3
10/10/16	23:00	7.0	16.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	103.3	93.4	448	39	100.6	1.2
10/10/16	23:30	7.5	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	101.1	94.0	516	45	98.4	2.2
10/10/16	00:00	8.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.5	102.4	93.6	895	78	91.6	2.4
10/11/16	08:00	16.0	18.0	17.0	20.0	19.0	25.0	27.0	28.0	28.0	0.0	0.0	22.0	102.2	94.5	1,405	123	85.5	2.5
10/11/16	09:00	17.0	18.0	17.0	20.0	20.0	25.5	27.5	28.5	28.5	0.0	0.0	22.0	104.7	93.6	881	77	71.2	0.6
10/11/16	10:00	18.0	18.0	17.0	20.0	21.0	26.0	28.0	29.0	29.0	0.0	0.0	22.0	104.7	94.0	1,121	98	96.6	2.3
10/11/16	11:00	19.0	19.0	17.0	20.0	22.0	26.5	28.5	29.5	29.5	0.0	0.0	22.5	108.5	94.5	779	68	89.0	1.5
10/11/16	12:00	20.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.5	109.8	95.0	810	71	97.4	1.6
10/11/16	13:00	21.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	108.5	94.8	1,167	102	98.6	3.2
10/11/16	14:00	22.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	125.6	67.4	1,121	98	91.9	4.8
10/11/16	15:00	23.0	18.0	17.0	21.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	115.3	94.0	780	68	92.8	1.1
10/11/16	16:00	24.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	121.8	89.3	584	51	81.3	1.2
10/11/16	18:00	26.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	115.2	95.5	521	45	92.5	1.5
10/11/16	20:00	28.0	18.0	16.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	104.4	93.6	576	50	100.0	1.6
10/11/16	22:00	30.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	105.8	94.0	846	74	95.7	2.0
10/12/16	00:00	32.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.9	95.2	762	66	97.2	1.8
10/12/16	08:00	40.0	18.0	17.0	20.0	20.0	25.0	27.0	28.0	28.0	0.0	0.0	22.0	102.4	93.7	655	57	97.5	1.7
10/12/16	10:00	42.0	18.0	17.0	20.0	20.0	25.5	27.5	28.5	28.5	0.0	0.0	22.0	107.3	94.3	641	56	100.9	1.7
10/12/16	12:00	44.0	18.0	17.0	20.0	20.0	26.0	28.0	29.0	29.0	0.0	0.0	22.0	115.0	93.8	1,259	110	105.2	2.1
10/12/16	14:00	46.0	18.0	17.0	20.0	21.0	26.5	28.5	29.5	29.5	0.0	0.0	22.0	125.9	68.5	858	75	98.2	3.0
10/12/16	16:00	48.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	112.4	94.9	1,031	90	75.4	3.1
10/12/16	18:00	50.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	109.6	95.5	1,162	101	77.6	2.9
10/12/16	20:00	52.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	106.1	94.5	872	76	94.2	3.1
10/12/16	22:00	54.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	103.7	94.6	624	54	96.3	2.3
10/13/16	00:00	56.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	98.7	94.5	1,080	94	79.4	1.8
10/13/16	08:00	64.0	18.0	17.0	20.0	21.0	25.0	27.0	28.0	28.0	0.0	0.0	22.0	96.9	95.0	1,112	97	87.4	2.8
10/13/16	10:00	66.0	18.0	17.0	20.0	21.0	25.5	27.5	28.5	28.5	0.0	0.0	22.0	104.8	94.9	1,167	102	83.9	4.9
10/13/16	12:00	68.0	18.0	17.0	20.0	20.0	26.0	28.0	29.0	29.0	0.0	0.0	22.0	114.8	93.8	1,204	105	84.5	1.7
10/13/16	14:00	70.0	18.0	17.0	20.0	19.0	26.5	28.5	29.5	29.5	0.0	0.0	22.0	129.6	64.0	1,056	92	97.6	3.8
10/13/16	16:00	74.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	123.4	65.6	724	63	91.8	3.8
10/13/16	18:00	74.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	119.8	65.7	1,007	88	78.2	3.8
10/13/16	20:00	76.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	103.8	94.6	917	80	60.8	5.7
10/13/16	22:00	78.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.4	94.4	810	71	68.6	4.2
10/14/16	00:00	80.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	66.8	93.7	746	65	29.5	0.5
10/14/16	08:00	88.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.4	93.6	774	68	65.7	2.2
10/14/16	10:00	90.0	17.0	17.0	20.0	19.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	108.6	94.6	820	72	92.3	2.1
10/14/16	12:00	92.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	110.0	91.2	1,167	102	77.6	3.1
10/14/16	14:00	94.0	18.0	17.0	20.0	19.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	111.0	94.4	812	71	82.2	4.9
10/14/16	16:00	96.0	18.0	17.0	20.0	19.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	112.0	92.1	988	70	87.3	2.4

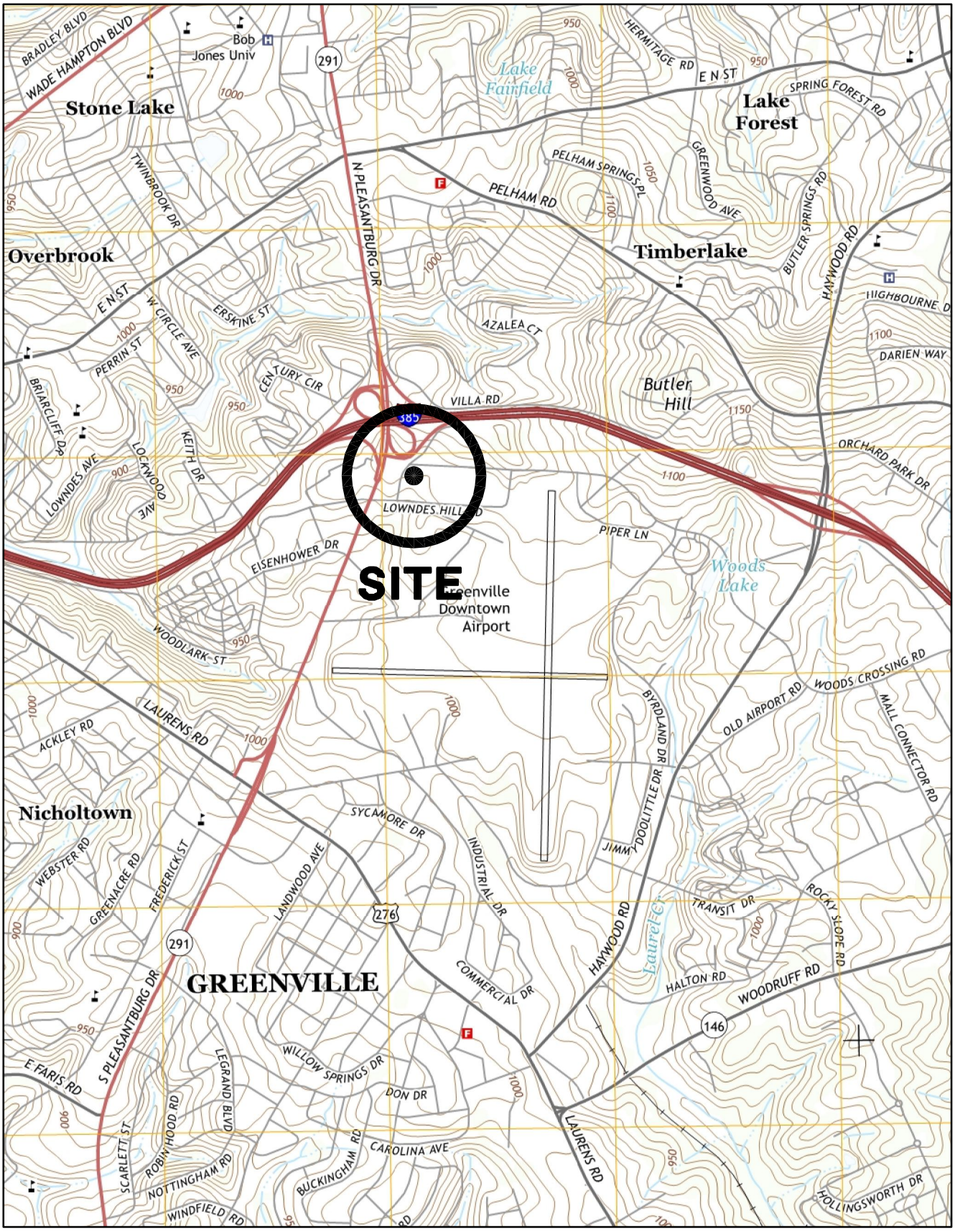
Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
11929-MW04	NFPP	25.63	NFPP	NFPP	26.55	NFPP	0.92
11929-MW06	NFPP	28.16	NFPP	NFPP	29.55	NFPP	1.39
11919-MW15	27.04	27.12	0.08	28.00	28.03	0.03	0.91
11929-MW17	24.41	26.42	2.01	26.72	27.20	0.48	0.78
11929-MW16	NFPP	25.19	NFPP	NFPP	26.24	NFPP	1.05
11929-MW18	NFPP	26.02	NFPP	NFPP	27.25	NFPP	1.23

Recovery Information	
Total Volume of Water (gallons)	2,971
Total Volume of FPP (gallons)	1.5
Total Calculated Carbon Recovered as Emissions (pounds)	4.4
Total Calculated Gasoline Recovered as Emissions (pounds)	5.1
Total Calculated Gasoline Recovered as Emissions (gallons)	0.8

Notes: 4-inch diameter stack size
btoc - below top of casing
Vapor concentrations measured with portable Ion Science PhoCheck 1000.
PID - Photo - Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPP - No Free Phase Product
^{o}F - Fahrenheit
CFM - Cubic Feet per Minute
FPP - Free-Phase Product

Prepared By: DRM
Checked By: TJB

FIGURES

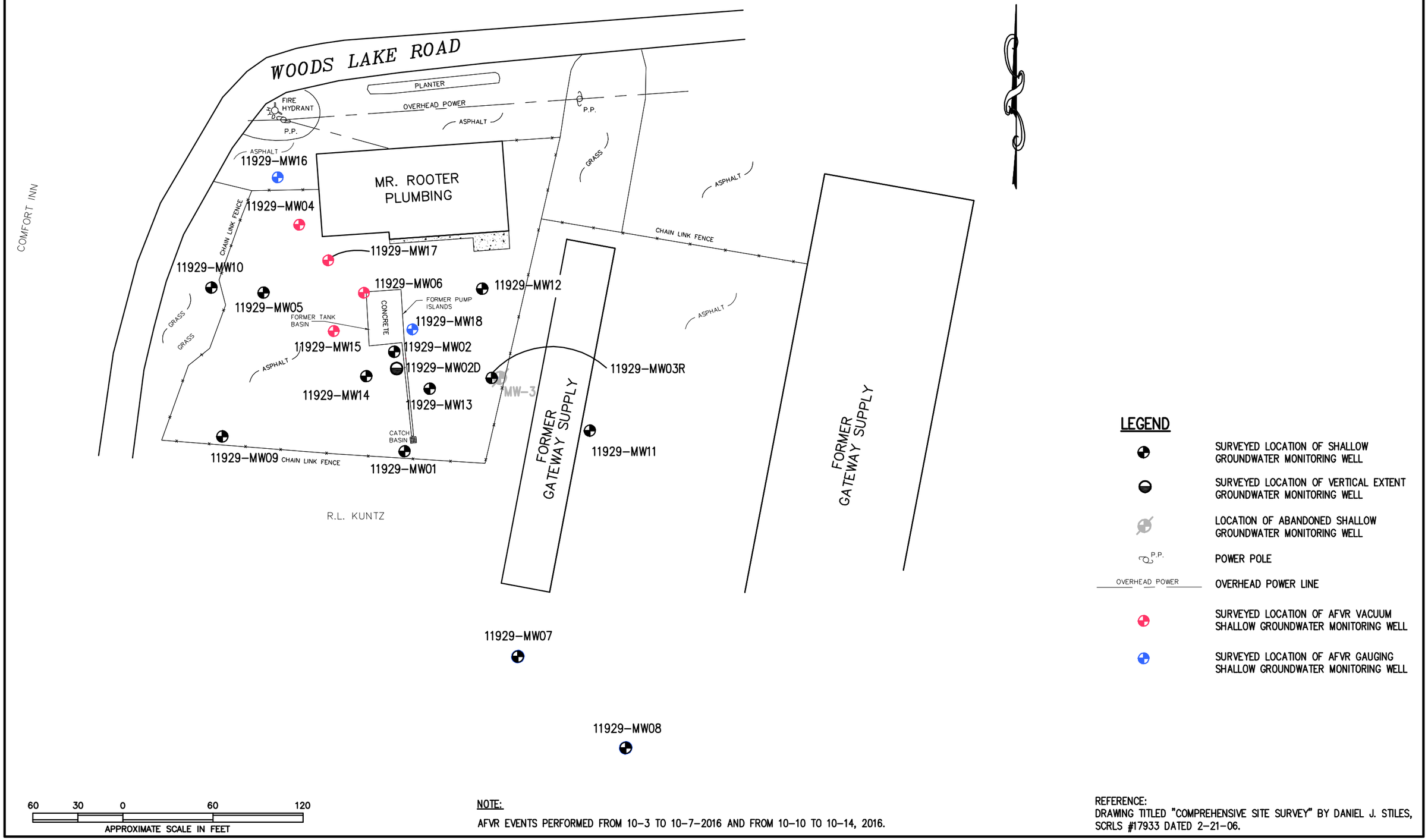


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 11-22-16	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: DRM	CAD: FORMERRTT-22SLM		FIGURE 1
APPROVED:	JOB NO: J16-1010-22		



NOTE:

AFVR EVENTS PERFORMED FROM 10-3 TO 10-7-2016 AND FROM 10-10 TO 10-14, 2016.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	11-22-16
CHECKED BY:	DRM	FILE:	FORMERRTT-22AFVR
APPROVED BY:		JOB NO:	J16-1010-22

REVISIONS		
No.	DESCRIPTION	BY

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

AFVR SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE
2

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

VLS recovery services, inc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			BLE10116B

GENERATOR

5. Generator's Name and Mailing Address
BUNNELL-LAMMONS ENG, INC - RYDER TERMINAL
6004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1265

Generator's Site Address (if different than mailing address)
FMR RYDER TERMINAL UST# 11929
10 WOODS LAKE ROAD
GREENVILLE, SC 29615

6. Transporter 1 Company Name: SPARKS INDUSTRIAL SERVICE
U.S. EPA ID Number: SCR000771725

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

8. Designated Facility Name and Site Address
VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
Facility's Phone: 864-962-9953
U.S. EPA ID Number: SCR000762468

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REGULATED WELL WATER #21147 Ryder terminal Greenville sc UST 11929	001	TT	4,000	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
P/U:
TUESDAY 10.11.2016
1 hr. van

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

Generator's/Offeror's Printed/Typed Name: X Tyler Bunnicle
Signature: X
Month 10 Day 11 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeremy Sparks
Signature:
Month 10 Day 11 Year 16

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
4041 gallons based on weight
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

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

Printed/Typed Name: Steven Lubbers
Signature:
Month 10 Day 11 Year 16

53176

SCALE TICKET

10/12/2016		11:46AM
Progressive		2173
RcPD I.D. number		S 2445 31
Gross		69940 lb
Tare(*)		36240 lb
* Preset weight		
Net		33700 lb

Scale Company: ULS

Weighed By: Ray

Carrier: Sparks

Customer: _____

PO/BOL/Manifest _____

Tractor Number: 2445

Trailer Number: 31

Driver Signature: _____

WHITE - Driver YELLOW - Driver CARD - Scale

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				BLG14163

GENERATOR

5. Generator's Name and Mailing Address

-LAMMON ENG, INC - RYDER TERMINAL
6004 PONDERS COURT
GREENVILLE, SC 29615

Generator's Phone: 864-288-1265

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

FMR RYDER TERMINAL UST# 11929
10 WOODS LAKE ROAD
GREENVILLE, SC 29615

6. Transporter 1 Company Name: SPARKS INDUSTRIAL SERVICE — U.S. EPA ID Number: SCR000771725

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

8. Designated Facility Name and Site Address

VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662

U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REGULATED WELL WATER #21147 Ryder Truck Greenville, SC UST 11929	001	TT	3,000	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

P/U:
FRIDAY 11.04.2016

Thank you

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

Generator's/Offeror's Printed/Typed Name: Signature on file — Signature: Signature on file — Month 11 Day 4 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeremy Snow — Signature: [signature] — Month 11 Day 4 Year 16

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

2971 gallons based on weight

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

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

Printed/Typed Name: Daniel Whitmire — Signature: [signature] — Month 11 Day 4 Year 16

53738

SCALE TICKET

11/04/2016	04:59PM
Progressive	3610
RcPD I.D. number	S 2445 226
Gross	56780 lb
Tare(*)	32000 lb
* Preset weight	
Net	24780 lb

Scale Company: VLS

Weighed By: [signature]

Carrier: Spotts

Customer: BLE (Greenville)

PO/BOL/Manifest BLE 11416B

Tractor Number: 2445

Trailer Number: 226

Driver Signature: [signature]

WHITE - Driver YELLOW - Driver CARD - Scale

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 3/21/2018	Site ID #: 11929	Site Name: Former Ryder Terminal
County: Greenville	Project Manager: A. Looper	Field Personnel: A. Looper, E. Mendenhall

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-4	30	20-30	—	24.55	—	No	No	Yes	No	Yes
MW-6	30	20-30	25.49	26.80	1.31	No	No	Yes	Yes	No
MW-15	33	23-33	24.05	24.45	0.40	No	No	Yes	No	Yes
MW-17	35	25-35	24.78	26.12	1.34	No	No	Yes	Yes	No

UST DOCKETING 36 [illegible]

Notes:

Signature: Adam Looper

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

-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

dhec
Healthy People. Healthy Communities.

APR 0 2 2018

UST 37 DOCKETING

LLOYD DAUTEN
4925 COACH HILL DR
GREENVILLE SC 29615

Re: **Aggressive Fluid and Vapor Recovery Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929; CA #56674
Release reported February 25, 1997
AFVR report received February 3, 2017
Greenville County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. 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 3.1. **Please be aware that the AFVR Procedures have been updated.** One 96-hour event utilizing monitoring well MW-6, MW-15, and MW-17 should be performed. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 24 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 the DHEC QAPP Revision 3.1 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 Adam Looper at Looperam@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.

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

On all correspondence concerning this site, please reference UST Permit #11929. If there are any questions concerning this project, feel free to 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, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 56674

Facility: 11929 FORMER RYDER TERMINAL
LOOPERAM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$22,742.250	2,729.07
23 EFR						
		A4	96 HOUR EVENT	1.0000	$12,567.500	12,567.50
		C4	OFF GAS TREATMENT 96 HOUR	1.0000	$780.000	780.00
		D	SITE RECONNAISSANCE	1.0000	$203.250	203.25
		F1	EFFLUENT DISPOSAL	20,000.0000	$0.440	8,800.00
		G	AFVR EQUIPMENT MOB	1.0000	$391.500	391.50
				Total Amount		25,471.32

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 04/04/2017

Permit Number 11929

Project Manager Adam Looper

Name of Contractor BLE Inc

UST Certification Number Report of AFVR Event

Docket Number 38 Tech

Scanned _____

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF AGGRESSIVE FLUID VAPOR RECOVERY EVENT

FORMER RYDER TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #56674

Prepared For

Ms. Ingrid Auten
C/O Ms. Annie Mumbauer
BB&T Wealth Management
P.O. Box 408
Greenville, South Carolina 29602

Prepared By

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

May 29, 2018

BLE Project Number J18-1010-23

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

May 29, 2018

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper
Hydrogeologist

Subject: **Report of Aggressive Fluid Vapor Recovery Event**
Former Ryder Terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929; CA #56674
BLE Project No. J18-1010-23

Dear Mr. Looper:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed an Aggressive Fluid Vapor Recovery (AFVR) Event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

TREVOR J. BENTON REGISTERED No. 2395 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Thomas L. Lammons, P.G
Principal Hydrogeologist
Registered, South Carolina No. 893

PROFESSIONAL GEOLOGIST REGISTERED No. 893 SOUTH CAROLINA THOMAS L. LAMMONS

cc: Ms. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 29602

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE (864) 288-1265
FAX (864) 288-4430

SITE INFORMATION

Facility Identification:

Facility Name	Former Ryder Terminal
UST Permit Number	11929
Facility Address	10 Woods Lake Drive Greenville, South Carolina 29607

Release Information:

Release #	Date Reported	Quantity	Cause	Status
1	January 5, 1990	Unknown	Unknown	No Further Action – January 5, 1990
2	February 25, 1997	Unknown	Unknown	Open

Responsible Party:

Name	Ms. Ingrid Auten c/o BB&T Wealth Management
Address	PO Box 408 Greenville, South Carolina 29602

Property Owner Information:

Name	Wheeler Properties, LLC
Address	10 Woods Lake Drive Greenville, South Carolina 29607

Current Site Use: Vacant

UST Site Rehabilitation Contractor:

Name	Bunnell-Lammons Engineering, Inc.
Address	6004 Ponders Court Greenville, South Carolina 29615
Phone	(864) 288-1265
Certification Number	UCC-0010

AFVR Contractor Information:

AFVR Contractor	Landprobe Drilling Services, LLC
Address	PO Box 25608 Greenville, South Carolina 29616

UST System Summary:

UST #	Size (Gallons)	Product	Currently in use (Yes or No)	If not in use, Date Removed
1	20,000	Diesel	No	Removed – May 1, 1989
2	5,000	Diesel	No	Removed – May 1, 1989
3	6,000	Gasoline	No	Removed – May 1, 1989
4	5,000	Gasoline	No	Removed – May 1, 1989
5	550	Unknown	No	Removed – May 1, 1989

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

On May 1, 2018, BLE personnel mobilized to the facility to evaluate site access and to determine staging locations for the AFVR equipment. From May 7-11, 2018, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform a 96-hour AFVR event. Personnel from BLE's Greenville, South Carolina office were on-site for observation and monitoring during the event. A site location map and an AFVR well location plan are provided as Figure 1 and 2, respectively. A summary of the AFVR event is provided below.

AFVR Event – May 7-11, 2018

AFVR Well(s)	MW-06, MW-15, and MW-17
Gauged Well(s)	MW-04, and MW-18
Pre-AFVR Free-Product Thickness	1.10-feet in MW-06, 5.02-feet in MW-15, 0.86-feet in MW-17, 0.01-feet in MW-04, and 0.06-feet in MW-18

Post-AFVR Free-Product Thickness	0.57-feet in MW-06, 0.20-feet in MW-15, 0.59-feet in MW-17, <0.01-feet in MW-04, and 0.10-feet in MW-18
Length of AFVR Event	96 hours
Total Volume of Liquid Removed	2,722 gallons
Volume of Free-Product in Holding Tank	5.0 gallons
Total Pounds of Free-Product Recovered (Vapor)	15.4 pounds
Total Gallons of Free-Product Recovered (Vapor)	2.1 gallons
General Weather Conditions	5/7/18 – Storms, Average 66°F 5/8/18 – Rain, storms, Average 65°F 5/9/18 – Clear, Average 69°F 5/10/18 – Rain, storms, Average 71°F 5/11/18 – Clear, Average 73°F

Pertinent data collected throughout the AFVR event is included in Table 1 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

CONCLUSIONS

One 96-hour AFVR event was conducted on monitoring wells on MW-06, MW-15, and MW-17 at the subject site. At the completion of the AFVR event, a total volume of 2,722-gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 5.0 gallons of free-phase petroleum product was measured in the holding tanks and 2.1 gallons of gasoline were calculated to have been recovered via vapor-phase emissions. Additional petroleum product emulsified in the groundwater and/or volatilized during the AFVR event, could not be quantified.

RECOMMENDATIONS

As free-product continues to persist in monitoring wells MW-06, MW-15, MW-17, and MW-18, we recommend performing three additional 96-hour AFVR events to: 1) remove free-phase and residual free-phase petroleum product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface.

Approximately thirty days after completion of the AFVR events, we recommend a comprehensive groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current site-wide CoC concentration data, and to monitor CoC concentration trends.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

AFVR Event Data
May 7-11, 2018
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #56674
BLE Project No. J18-1010-23

			Monitoring Well Gauging Data										AFVR Field Measurements				Air Emissions		
			AFVR Well Vacuum (in. of Hg)			AFVR Well Stinger Depths (feet btoc)			Adjacent Well Vacuum (in. of Hg)		Adjacent Well Depth to FP / Groundwater (ft btoc)		Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	10250-MW06	10250-MW15	10250-MW17	10250-MW06	10250-MW15	10250-MW17	10250-MW04	10250-MW18	10250-MW04	10250-MW18							
5/7/2018	09:00	0.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.70 / 23.71	24.09 / 24.15	25.0	94	48.7	389	33.9	451	0.0
5/7/2018	09:30	0.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.70 / 23.71	24.16 / 24.25	25.0	97	49.3	409	35.7	418	0.8
5/7/2018	10:00	1.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.72	24.32 / 24.35	25.0	98	50.1	429	37.4	447	1.4
5/7/2018	10:30	1.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.73	24.33 / 24.45	25.0	101	52.6	447	39.0	437	1.8
5/7/2018	11:00	2.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.73	24.37 / 24.55	25.0	104	51.7	429	37.4	437	2.5
5/7/2018	11:30	2.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.73 / 23.74	24.39 / 24.65	25.0	110	52.0	409	35.7	422	2.9
5/7/2018	12:00	3.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.74 / 23.75	24.40 / 24.85	25.0	111	52.2	409	35.7	442	3.2
5/7/2018	12:30	3.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.75 / 23.76	24.42 / 24.84	25.0	112	54.8	437	38.1	437	3.9
5/7/2018	13:00	4.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.76 / 23.77	24.44 / 24.85	25.0	113	55.6	441	38.5	437	3.6
5/7/2018	13:30	4.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.78 / 23.79	24.46 / 24.85	25.0	112	56.3	428	37.4	468	3.8
5/7/2018	14:00	5.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.78 / 23.79	24.48 / 24.85	25.0	113	55.2	479	41.8	511	4.0
5/7/2018	14:30	5.5	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.80 / 23.81	24.49 / 24.86	25.0	115	56.4	439	38.3	521	3.7
5/7/2018	15:00	6.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.81 / 23.82	24.51 / 24.86	25.0	114	52.3	429	37.4	521	3.4
5/7/2018	15:30	6.5	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.81 / 23.83	24.54 / 24.86	25.0	115	54.8	501	43.7	551	3.5
5/7/2018	16:00	7.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.82 / 23.83	24.55 / 24.87	25.0	111	55.7	474	41.4	564	3.4
5/7/2018	16:30	7.5	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.82 / 23.84	24.56 / 24.87	25.0	119	57.1	493	43.0	577	3.7
5/7/2018	17:00	8.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.83 / 23.84	24.57 / 24.87	25.0	124	57.2	502	43.8	577	4.0
5/7/2018	18:00	9.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.84 / 23.85	24.57 / 24.87	25.0	119	56.4	512	44.7	580	3.7
5/7/2018	19:00	10.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	2.1	23.85 / 23.86	24.59 / 24.88	25.0	121	58.2	498	43.5	529	4.1
5/7/2018	20:00	11.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.85 / 23.86	24.60 / 24.88	25.0	119	61.4	544	47.5	554	4.4
5/7/2018	21:00	12.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.86 / 23.87	24.61 / 24.88	25.0	121	59.7	513	44.8	554	4.3
5/7/2018	22:00	13.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.87 / 23.88	24.63 / 24.89	25.0	120	58.4	487	42.5	562	4.8
5/7/2018	23:00	14.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.87 / 23.89	24.65 / 24.89	25.0	111	62.7	428	37.4	560	4.8
5/8/2018	00:00	15.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.90 / 23.91	24.67 / 24.90	25.0	115	61.3	409	35.7	515	4.9
5/8/2018	08:00	23.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.11 / 24.12	24.80 / 25.00	25.0	97	59.6	441	38.5	515	6.3
5/8/2018	09:00	24.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.13	24.81 / 25.01	25.0	94	60.1	460	40.1	539	6.7
5/8/2018	10:00	25.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.13	24.81 / 25.01	25.0	95	61.0	487	42.5	510	7.8
5/8/2018	12:00	27.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.13	24.81 / 25.01	25.0	100	62.3	467	40.8	524	8.7
5/8/2018	14:00	29.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.14	24.81 / 25.01	25.0	109	63.8	523	45.6	524	9.2
5/8/2018	16:00	31.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.14	24.81 / 25.01	25.0	110	64.7	502	43.8	564	10.3
5/8/2018	18:00	33.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	108	62.8	498	43.5	514	9.8
5/8/2018	20:00	35.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	101	63.1	477	41.6	566	10.2
5/8/2018	22:00	37.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	104	62.7	484	42.2	566	10.5
5/9/2018	00:00	39.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	104	65.6	467	40.8	572	10.6
5/9/2018	08:00	47.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	97	61.7	429	37.4	502	11.7
5/9/2018	10:00	49.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	100	62.4	467	40.8	488	12.8
5/9/2018	12:00	51.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	108	59.3	429	37.4	488	13.9
5/9/2018	14:00	53.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	110	60.4	483	42.1	502	14.8
5/9/2018	16:00	55.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	112	62.3	507	44.2	495	15.2
5/9/2018	18:00	57.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	108	63.7	421	36.7	478	16.1
5/9/2018	20:00	59.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	111	62.4	483	42.1	478	16.0
5/9/2018	22:00	61.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	105	62.1	461	40.2	488	16.7
5/10/2018	00:00	63.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	104	59.5	429	37.4	456	16.7
5/10/2018	08:00	71.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.14/ 24.15	24.81 / 25.01	25.0	90	51.6	409	35.7	487	17.5
5/10/2018	10:00	73.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.14/ 24.15	24.81 / 25.01	25.0	94	53.7	429	37.4	487	18.1
5/10/2018	12:00	75.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.16 / 24.17	24.80 / 25.01	25.0	109	57.1	467	40.8	482	18.5
5/10/2018	14:00	77.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.18 / 24.19	24.80 / 25.01	25.0	112	60.0	489	42.7	495	18.9
5/10/2018	16:00	79.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.20 / 24.21	24.80 / 25.01	25.0	116	59.7	434	37.9	502	19.1
5/10/2018	18:00	81.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.22 / 24.23	24.80 / 25.01	25.0	120	58.4	473	41.3	502	19.4
5/10/2018	20:00	83.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.22 / 24.23	24.80 / 25.01	25.0	116	56.3	302	26.4	484	19.7
5/10/2018	22:00	85.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.26	24.80 / 25.01	25.0	114	57.1	431	37.6	502	20.0
5/11/2018	00:00	87.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.27	24.80 / 25.00	25.0	112	59.2	427	37.3	482	20.3
5/11/2018	08:00	95.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.28	24.40 / 24.50	25.0	110	57.3	467	40.8	482	21.4
5/11/2018	09:00	96.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.29	24.40 / 24.50	25.0	107	59.4	429	37.4	477	22.8

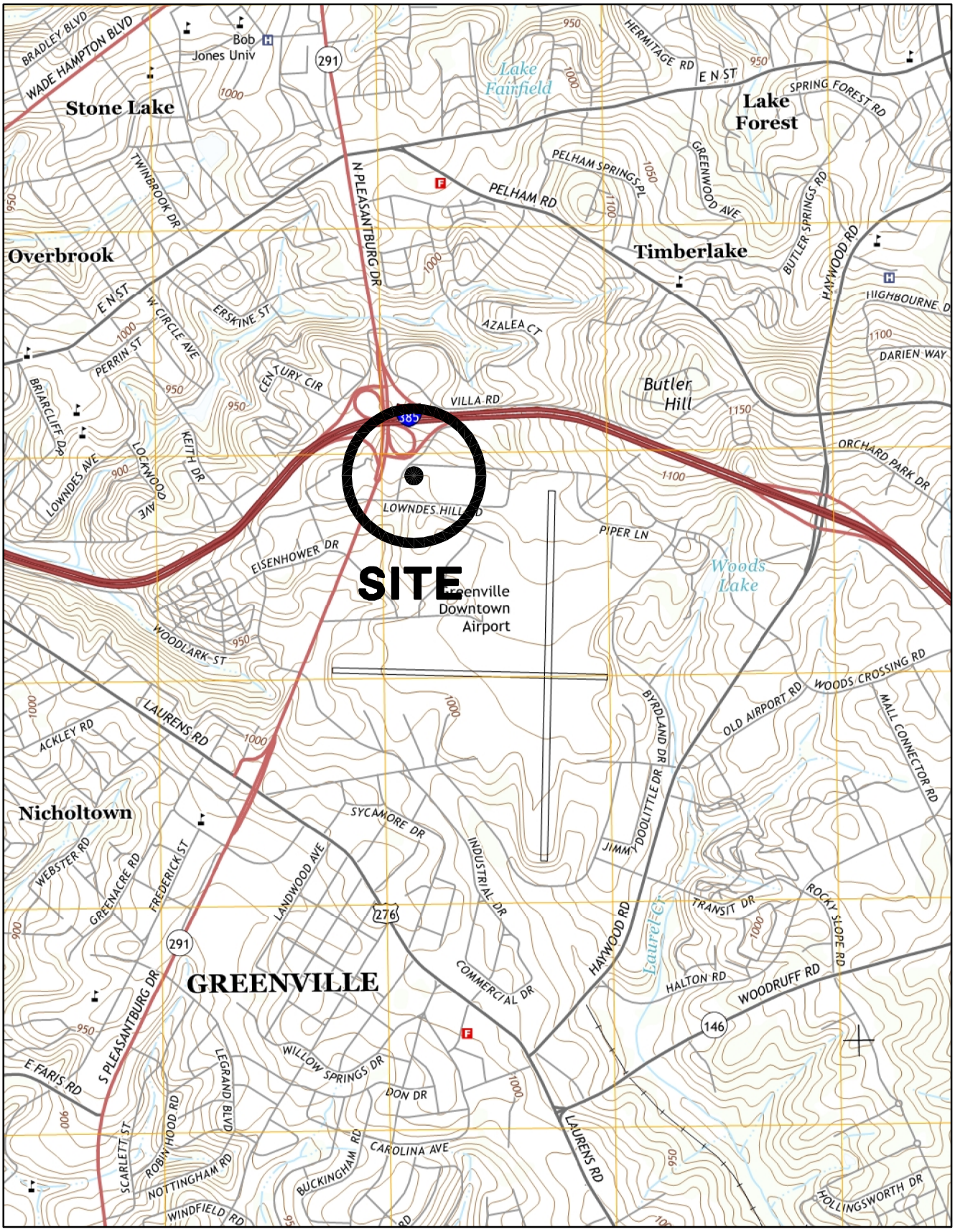
Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
10250-MW06	24.71	25.81	1.10	25.61	26.18	0.57	0.37
10250-MW15	23.10	28.12	5.02	23.41	23.61	0.20	-4.51
10250-MW17	24.93	25.79	0.86	26.12	26.71	0.59	0.92
10250-MW04	23.70	23.71	0.01	NFPP	24.29	NFPP	0.58
10250-MW18	24.09	24.15	0.06	24.40	24.50	0.10	0.35

Recovery Information	
Total Volume of Water (gallons)	2,722
Total Volume of FPP (gallons)	5.0
Total Calculated Carbon Recovered as Emissions (pounds)	13.3
Total Calculated Gasoline Recovered as Emissions (pounds)	15.4
Total Calculated Gasoline Recovered as Emissions (gallons)	2.1

Notes: 4-inch diameter stack size
btoc - below top of casing
Vapor concentrations measured with portable MiniRAE® 3000 PID.
PID - Photo-Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPP - No Free-Phase Product
°F - Fahrenheit
CFM - Cubic feet per minute
FPP - Free-Phase Product
##.## / ##.## - Depth to FPP, Depth to Groundwater
- / ##.## - No FPP / Depth to Groundwater

Prepared By: PW
Checked By: TJB

FIGURES

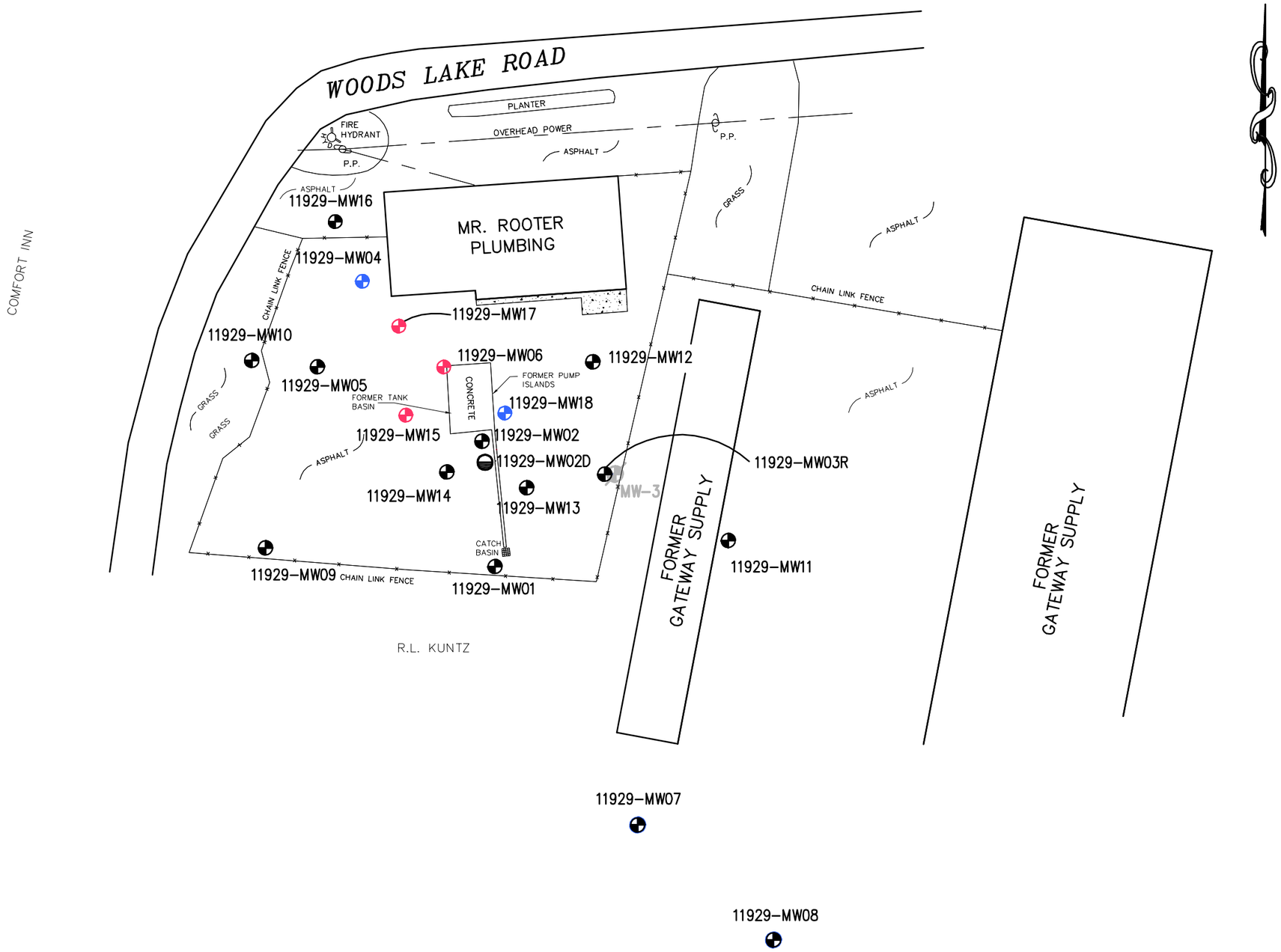


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 5-29-18	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: TJB	CAD: FORMERRTT-23SLM		FIGURE 1
APPROVED:	JOB NO: J18-1010-23		



LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE
- SURVEYED LOCATION OF AFVR VACUUM SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF AFVR GAUGING SHALLOW GROUNDWATER MONITORING WELL

60 30 0 60 120
APPROXIMATE SCALE IN FEET

NOTE:
AFVR EVENT PERFORMED FROM MAY 7–11, 2018

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	11-22-16
CHECKED BY:	DRM	FILE:	FORMERRTT-22AFVR
APPROVED BY:		JOB NO:	J16-1010-22

REVISIONS

No.	DESCRIPTION	BY

IBLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

AFVR SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE
2

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: 51118 BIE

GENERATOR

5. Generator's Name and Mailing Address: Bunnell Lammons Engineering, 4004 Ponders Ct, Greenville, SC 29615
Generator's Phone: Greenville, SC 29615

Generator's Site Address (if different than mailing address): Fmr Ryder Terminal UST# 11929, 10 Woods Lake Rd, Greenville, SC 29607

6. Transporter 1 Company Name: Phillips Recoveries, Inc.
U.S. EPA ID Number: SCR000784052

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

8. Designated Facility Name and Site Address: US Recovery Services, 305 S. Main St, Mauldin, SC 29662
Facility's Phone:
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Well Water ~~#20505~~ #21147	001	TT			
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Roger Noel | Signature: On File | Month: 5 | Day: 11 | Year: 18

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: Chris Clark | Signature: Chris Clark | Month: 5 | Day: 11 | Year: 18

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

2,722 GAL BASED ON WEIGHT

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

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

Printed/Typed Name: F Chappell | Signature: Frankly Chappell | Month: 5 | Day: 11 | Year: 18

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

82613

SCALE TICKET

05/11/2018	02:33PM
Progressive	9511
RcPD I.D. number	3
Gross	55060 lb
Tare(*)	32360 lb
* Preset weisht	
Net	22700 lb

Scale Company: VLS

Weighed By: JC

Carrier: PCI

Customer: BLE

PO/BOL/Manifest 5118 Ble

Tractor Number: 121

Trailer Number: ST1

Driver Signature: Clay Cle

WHITE - Driver YELLOW - Driver CARD - Scale

dhec
Healthy People. Healthy Communities.

JUN 2 8 2018

UST 39 Clerk DOCKETING

INGRID AUTEN
4925 COACH HILL DR
GREENVILLE SC 29615

Re: Site Specific Work Plan (SSWP) Directive for Groundwater Sampling
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929
Release reported February 25, 1997
AFVR Report received June 4, 2018
Greenville County

Dear Ms. Auten:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 foot radius of the site and analyzed for BTEX, Naphth, MtBE, Oxys, DCA, and EDB.All wells should be purged prior to sample collection.

Your contractor must complete the SSWP and Cost Proposal and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #11929. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615
Technical Files

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 8.10.2018

Permit Number 11929

Project Manager Adam Looper

Name of Contractor BLE Inc

UST Certification Number SSWP - GWS Event

Docket Number 40 Tech

Scanned _____

August 6, 2018

South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper, Hydrogeologist

Subject: **Site Specific Work Plan – Groundwater Sampling Event**
Former Ryder Terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929
BLE Project No. J18-1010-24

Dear Mr. Looper:

On behalf of The Estate of Lloyd Auten, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated June 28, 2018, for the implementation of a groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G., CHMM
Principal
Registered, South Carolina #893

cc: Estate of Lloyd Auten, 4925 Coach Hill Drive, Greenville, South Carolina 29615

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

To: Mr. Adam Looper (SCDHEC Project Manager)
From: Mr. Trevor Benton, P.G. (Contractor Project Manager)
Contractor: Bunnell-Lammons Engineering, Inc. UST Contractor Certification Number: UCC-0010

Facility Name: Former Ryder Truck Terminal UST Permit #: 11929
Facility Address: 10 Woods Lake Drive,Greenville, South Carolina 29607
Responsible Party: Estate of Lloyd Auten Phone:
RP Address: 4925 Coach Hill Drive, Greenville, South Carolina
Property Owner (if different): Wheeler Properties, LLC
Property Owner Address: 10 Woods Lake Road, Greenville, South Carolina 29607
Current Use of Property: Battery & Electric Company

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

Drinking Water Supply Wells:

☐ BTEXNMDCA (524.2) ☐ Mecury (200.8 245.1 or 245.2) ☐ EDB (504.1)
☐ Oxygenates & Ethanol (8260B) ☐ RCRA Metals (200.8)

Soil:

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

Air:

☐ BTEXN

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

0 Soil 0 Water Supply Wells 0 Air 1 Field Blank
19 Monitoring Wells 0 Surface Water 1 Duplicate 1 Trip Blank

Field Screening Methodology

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

# of shallow points proposed: NA Estimated Footage: NA feet per point
# of deep points proposed: NA Estimated Footage: NA feet per point
Field Screening Methodology:

Permanent Monitoring Wells

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

# of shallow wells: 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
Comments, if warranted:

UST Permit #: 11929 Facility Name: Former Ryder Terminal

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 14 Field Work Completion: 45
Report Submittal: 75 # of Copies Provided to Property Owners: 0

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)
Not Applicable

Investigation Derived Waste Disposal
Soil: 0 Tons Purge Water: 200 Gallons
Drilling Fluids: 0 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.
Monitoring wells MW-1, MW-2, MW-2D, MW-3R, and MW-4 through MW-18 will be purged and sampled during this scope of work. Purging and sampling will be performed in accordance with BLE's approved Annual Contractor Quality Assurance Plan (ACQAP).

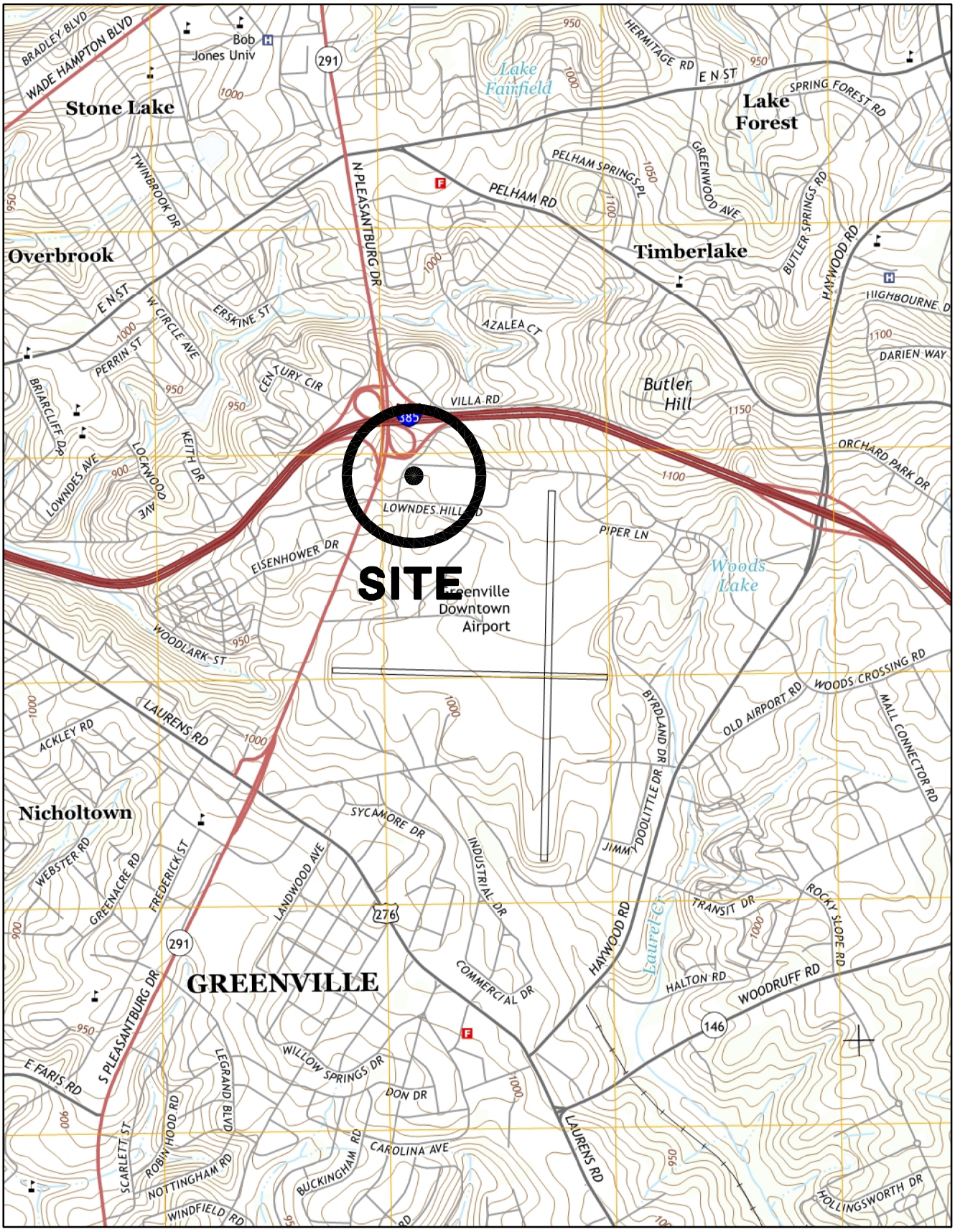
Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory:
SCDHEC Certification Number:
Name of Laboratory Director:

NA Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller:
SCLLR Certification Number:

No 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

FIGURES

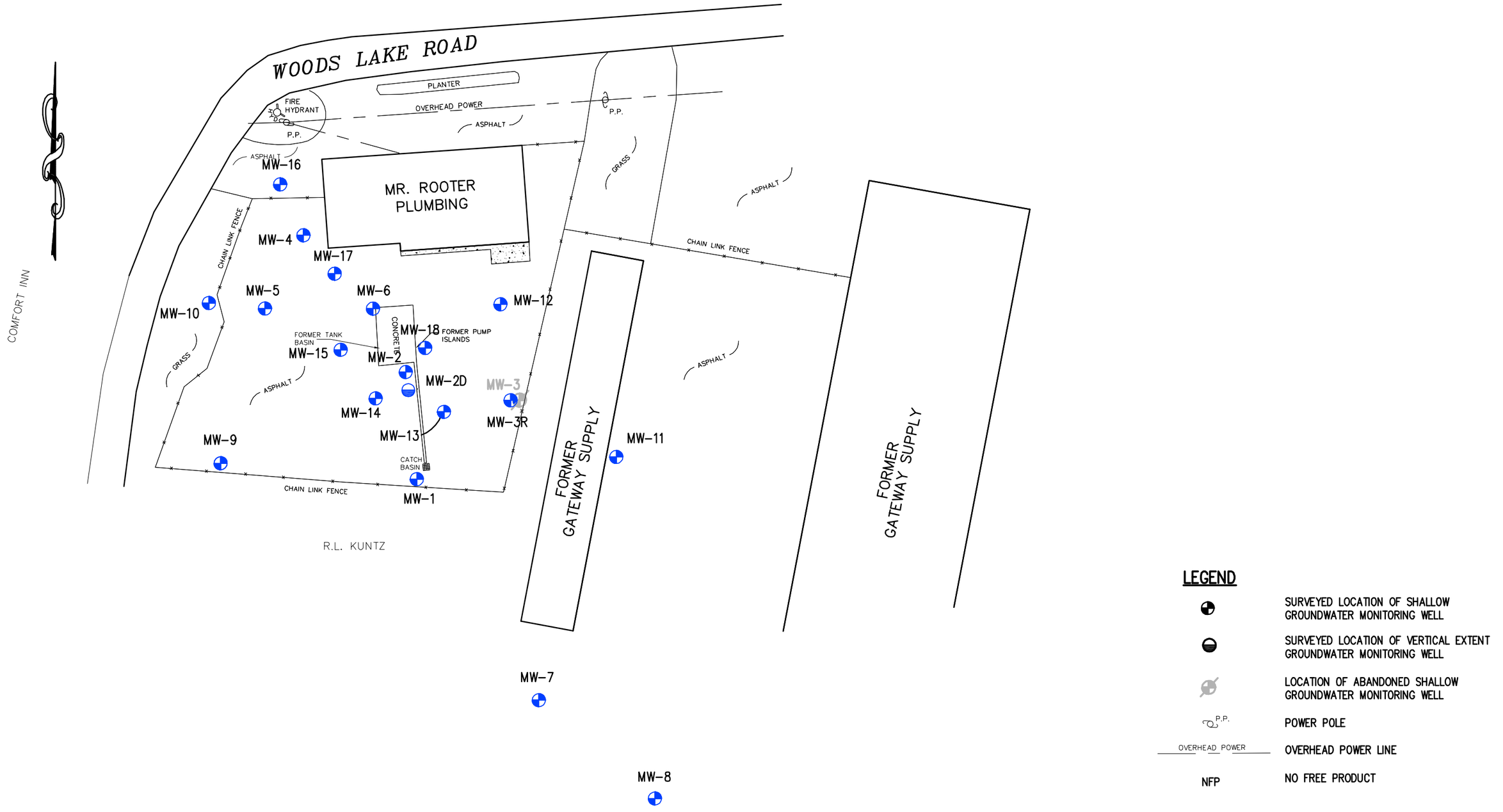


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 8-6-18	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED: TJB	CAD: FORMERRTT-24SLM	6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
APPROVED:	JOB NO: J18-1010-24		1



LEGEND

◔	SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
◒	SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
⊘	LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
P.P.	POWER POLE
OVERHEAD POWER	OVERHEAD POWER LINE
NFP	NO FREE PRODUCT

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	8-6-18
CHECKED BY:	TJB	FILE:	FORMERRTT-24FPTM
APPROVED BY:		JOB NO:	J18-1010-24

REVISIONS		
No.	DESCRIPTION	BY

BUNNELL LAMMONS ENGINEERING
6004 Ponders Court, Greenville, SC 29615
Phone: (864) 288-1265 **Fax:** (864) 288-4430

SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE
2

ASSESSMENT COMPONENT INVOICE

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

Healthy People. Healthy Communities.

Facility Name: **Former Ryder Terminal**

UST Permit #: 11929 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan Preparation**					
A1. Site-specific Work Plan	1	each	$150.00		$150.00
B1. Tax Map		each	$70.00		$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00		$0.00
2. A1. **Receptor Survey ***		each	$551.00		$0.00
3. **Survey (500 ft x 500 ft)**					
A1. Comprehensive Survey		each	$1,040.00		$0.00
B. Subsurface Geophysical Survey					
1B. < 10 meters below grade		each	$1,300.00		$0.00
2B. > 10 meters below grade		each	$2,310.00		$0.00
C1. Geophysical UST or Drum Survey		each	$910.00		$0.00
4. **Mob/Demob**					
A1. Equipment		each	$1,020.00		$0.00
B1. Personnel	2	each	$423.00		$846.00
C1. Adverse Terrain Vehicle		each	$500.00		$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00		$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***					
AA. Standard		per foot	$15.00		$0.00
C1. Fractured Rock		per foot	$20.20		$0.00
7. A1. **Soil Leachability Model**		each	$60.00		$0.00
8. **Abandonment (per foot)***					
A1. 2" diameter or less		per foot	$3.10		$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50		$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00		$0.00
9. **Well Installation (per foot)***					
A1. Water Table (hand augered)		per foot	$10.60		$0.00
B1. Water Table (drill rig)		per foot	$38.00		$0.00
CC. Telescoping		per foot	$50.00		$0.00
DD. Rock Drilling		per foot	$58.00		$0.00
E1. 2" Rock Coring		per foot	$30.90		$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40		$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00		$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00		$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00		$0.00
K. Re-develop Existing Well		per foot	$11.00		$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
A1. Groundwater Purge	19	per well/receptor	$60.00		$1,140.00
B1. Air or Vapors		per receptor	$12.00		$0.00
C1. Water Supply		per well/receptor	$22.00		$0.00
D1. Groundwater (No Purge or Duplicate)	1	per well/receptor	$28.00		$28.00
E1. Gauge Well only		per well	$7.00		$0.00
F1. Sample Below Product		per well	$12.00		$0.00
G1. Passive Diffusion Bag		each	$26.00		$0.00
H1. Field Blank	1	each	$24.60		$24.60
I. Groundwater (low flow purge)		per well/receptor	$91.00		$0.00

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	22	per sample	$122.00		$2,684.00
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	21	per sample	$45.20		$949.20
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N. EDB (504.1)		per sample	$79.50		$0.00
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	200	gallon	$0.56		$112.00
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	1	each	$50.00		$50.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
II. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$5,983.80		$718.06
TOTAL					$6,701.86

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

DHEC

dhec
Healthy People. Healthy Communities.

INGRID L AUTEN
4925 COACH HILL DR
GREENVILLE SC 29615

AUG 2 9 2018

Re: **Groundwater Sampling Directive**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929; CA #57813
Release #2 reported February 25, 1997
SSWP received August 10, 2018
Greenville County

Dear Ms. Auten:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Bunnell-Lammons Engineering, Inc. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the contractor's ACQAP, and must be conducted in compliance with all applicable regulations. A copy of the DHEC QAPP for the UST Management Division is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #57813** 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 ACQAP 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 ACQAP. 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.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied.

If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

Please note if unnecessary dilutions are completed resulting in reporting limits of individual 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.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the ACQAP. 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 #11929** and **CA #57813**. 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 & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc, 6004 Ponders Ct., Greenville, SC 29615(w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 57813

Facility: 11929 FORMER RYDER TERMINAL
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	2.0000	$423.000	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	19.0000	$60.000	1,140.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	1.0000	$28.000	28.00
		H1	FIELD BLANK	1.0000	$24.600	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22.0000	$122.000	2,684.00
		F1	EDB BY 8011	21.0000	$45.200	949.20
17 DISPOSAL						
		AA	WASTEWATER	200.0000	$0.560	112.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$5,983.800	718.06
25 WELL REPAIR						
		A1	ADDITIONAL COPIES OF REPORT	1.0000	$50.000	50.00
				Total Amount		6,701.86

Document Receipt Information

☐ Hard Copy ■ CD ☐ Email

Date Received 12-28-18

Permit Number 11929

Project Manager Adam Looper

Name of Contractor BLE

UST Certification Number _____

Docket Number 42tech

Scanned _____

GWS/AFVR

REPORT OF GROUNDWATER SAMPLING AND AGGRESSIVE FLUID VAPOR RECOVERY EVENT – NOVEMBER 2018

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #57813

Prepared For:
The Estate of Lloyd Auten
4925 Coach Hill Drive
Greenville, SC 29615

SCDHEC Certified Contractor No. UCC-0010
BLE Project Number J18-1010-24

December 20, 2018

BUNNELL LAMMONS ENGINEERING
6004 Ponders Court | Greenville, SC 29615
864.288.1265 864.288.4330 info@blecorp.com
BLECORP.COM

BUNNELL LAMMONS ENGINEERING

December 20, 2018

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper, Hydrogeologist

Subject: **Report of Groundwater Sampling and Aggressive Fluid Vapor Recovery Event – November 2018**
Former Ryder Truck terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929; CA #57813
BLE Project No. J18-1010-24

Dear Mr. Looper:

On behalf of the Estate of Lloyd Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event and one 96-hour Aggressive Fluid Vapor Recovery (AFVR) event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated August 29, 2018 and is in accordance with BLE's Site Specific Work Plan (SSWP) submitted on June 22, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL LAMMONS ENGINEERING INC.

Ivan A. Irizarry
Staff Geologist

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

TREVOR J. BENTON REGISTERED No. 2395 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

cc: Estate of Lloyd Auten, 4925 Coach Hill Drive, Greenville South Carolina 29615

1.0 BACKGROUND INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by Aiken Brothers of the Upstate, a residential and commercial lawn equipment repair shop.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments have been performed at the subject site to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

In an effort to evaluate current groundwater chemicals of concern (CoC) trends at the subject site, the SCDHEC has required a comprehensive groundwater sampling event be conducted. The results of this scope of work are provided herein.

2.0 GROUNDWATER SAMPLING

Date Sampled:	November 7-8, 2018	
Total Number of Wells Associated with Site:	19	MW-01, MW-02, MW-02D, MW-03R, and MW-04 through MW-18
Total Number of Wells Sampled:	14	MW-01, MW-02, MW-02D, MW-03R, and MW-05, MW-08, through MW-14, and MW-16
Total Number of Wells NOT Sampled:	5	MW-06, MW-15, MW-17, and MW-18 (Free-Product) and MW-07 (Well Not Accessible)
Receptors Sampled	0	None Associated
QA / QC Samples	4	1 Duplicate Sample (MW-03R DUP), 2 Field Blank, and 1 Trip Blank
Total Purge Volume (gallons)	98	Water Disposed of in Conjunction with the AFVR event discussed in Section 3.0.
Analytical Laboratory	Shealy Environmental Services, Inc.	
Analytical Methods	EPA Method 8260B and EPA Method 8011	
Free-Phase Petroleum Product	MW-06 (1.05-Feet), MW-15 (0.19-Feet), MW-17 (0.01-Feet), and MW-18 (0.03-Feet)	
Contaminants Exceeding Risk Based Screening Level Concentrations	Benzene, Naphthalene, and 1,2-Dibromoethane (EDB)	
Groundwater Level Measurements	See **Table 1**	
Groundwater Sampling Logs and Procedures	See **Appendix B**	
Laboratory Analytical Summary	See **Table 2A** and **Table 2B**	
Laboratory Analytical Results	See **Appendix C**	
Potentiometric Map	See **Figure 2**	
CoC Map	See **Figure 3**	

3.0 AGGRESSIVE FLUID VAPOR RECOVERY EVENT

From November 26-30, 2018, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform one 96-hour AFVR event. Personnel from BLE's Greenville, South Carolina office were on-site for observation and monitoring during the events. A site base map is provided as **Figure 4** and a summary of the AFVR event is provided below.

3.1 AFVR Event – November 26-30, 2018

AFVR Well(s)	MW-06, MW-15, and MW-18
Gauged Well(s)	MW-17
Pre-AFVR Free-Product Thickness	1.44-feet in MW-06, 0.23-feet in MW-15, and 0.03 feet in MW-18
Post-AFVR Free-Product Thickness	No Free Product Present
Duration of AFVR Event	96 hours
Total Volume of Liquid Recovered	7,111 gallons – (98 gallons from sampling event and 7,013 gallons from AFVR event)
Volume of Free-Product in Holding Tank	2.0 gallons
Total Pounds of Free-Product Recovered (Vapor)	6.8 pounds
Total Gallons of Free-Product Recovered (Vapor)	0.9 gallons
General Weather Conditions	11/26/18 – Mostly Sunny, Average Temp. - 57^{o}F 11/27/18 – Mostly Sunny, Average Temp. - 48^{o}F 11/28/18 – Mostly Sunny, Average Temp. - 48^{o}F 11/29/18 – Partly Cloudy, Average Temp. - 55^{o}F 11/30/18 – Cloudy/Rain, Average Temp. - 57^{o}F

Pertinent data collected throughout the AFVR event is included in **Table 3**. Waste transportation and disposal records for this AFVR event are provided in **Appendix A**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on current laboratory analytical results the extent of the contamination plume appears to be substantially defined in the horizontal and vertical directions; however, free-phase product continues to persist in monitoring wells MW-06, MW-15, MW-17, and MW-18. Therefore, we recommend a series of two 96-Hour AFVR events be conducted on these wells in an effort to remove free-phase petroleum product from the subsurface and reduce source area CoC concentrations.

Approximately thirty days after the last AFVR event, we recommend conducting a comprehensive groundwater sampling event in order to evaluate the effectiveness of the AFVR events, evaluate CoC concentration trends, and monitor plume migration.

5.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Lloyd Auten. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

Monitoring Well and Groundwater Surface Elevation Data

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Measured	Top of Casing Elevation	Ground Surface Elevation	Free Product Thickness	Groundwater Depth BTOC	Groundwater Elevation	Well Depth	Screened Interval Depth	Screened Interval Elevation
11929-MW01	1/21/2013	100.70	98.48	---	29.00	71.70	31.0	21.0 - 31.0	77.5 - 67.5
	1/28/2016			---	20.01	80.69			
	11/7/2018			---	26.02	74.68			
11929-MW02	1/21/2013	100.10	100.54	---	26.90	73.20	30.0	20.0 - 30.0	80.5 - 70.5
	1/28/2016			---	19.15	80.95			
	11/7/2018			---	23.92	76.18			
11929-MW02D	1/21/2013	99.29	99.76	---	28.59	70.70	54.5	49.5 - 54.5	50.3 - 45.3
	1/28/2016			---	21.03	78.26			
	11/7/2018			---	26.02	73.27			
11929-MW03	1/21/2013	Well abandoned December 5, 2005							
11929-MW03R	1/21/2013*	99.00	99.57	**0.21**	26.36	72.64	32.4	22.2 - 32.2	77.4 - 67.4
	1/28/2016			---	18.78	80.22			
	11/7/2018			---	23.58	75.42			
11929-MW04	1/21/2013*	102.67	102.91	**0.37**	26.31	76.36	29.5	19.5 - 29.5	83.4 - 73.4
	1/28/2016*			**0.08**	20.03	82.64			
	11/7/2018			--	23.46	79.21			
11929-MW05	1/21/2013	101.48	101.71	---	26.55	74.93	29.0	19.0 - 29.0	82.7 - 72.7
	1/28/2016			---	17.62	83.86			
	11/7/2018			---	23.02	78.46			
11929-MW06	1/21/2013*	101.74	102.12	**1.83**	27.85	73.89	29.5	19.5 - 29.5	82.6 - 72.6
	1/28/2016*			**0.33**	20.08	81.66			
	11/7/2018*			**1.05**	24.83	76.91			
11929-MW07	1/21/2013	92.67	92.97	Not Accessible			32.8	22.8 - 32.8	70.2 - 60.2
	1/28/2016			Not Accessible					
	11/7/2018			Not Accessible					
11929-MW08	1/21/2013	88.76	88.87	Not Accessible			29.8	19.8 - 29.8	69.1 - 59.1
	1/28/2016			Not Accessible					
	11/7/2018			---	22.40	66.36			
11929-MW09	1/21/2013	102.26	102.65	---	27.35	74.91	30.7	20.4 - 30.4	82.3 - 72.3
	1/28/2016			---	17.74	84.52			
	11/7/2018			---	23.77	78.49			
11929-MW10	1/21/2013	104.67	104.67	---	26.35	78.32	30.1	19.8 - 29.8	84.9 - 74.9
	1/28/2016			---	17.46	87.21			
	11/7/2018			---	23.09	81.58			
11929-MW11	1/21/2013	100.66	100.92	Not Accessible			31.0	20.7 - 30.7	80.2 - 70.2
	1/28/2016			Not Accessible					
	11/7/2018			---	23.14	77.52			
11929-MW12	1/21/2013	101.38	101.68	---	27.85	73.53	30.9	20.7 - 30.7	81.0 - 71.0
	1/28/2016			---	20.41	80.97			
	11/7/2018			---	24.94	76.44			
11929-MW13	1/21/2013	98.62	98.95	---	25.80	72.82	33.2	23.0 - 33.0	76.0 - 66.0
	1/28/2016			---	19.04	79.58			
	11/7/2018			---	22.87	75.75			
11929-MW14	1/21/2013	99.30	99.83	---	25.85	73.45	32.0	21.8 - 31.8	78.0 - 68.0
	1/28/2016			---	18.89	80.41			
	11/7/2018			---	22.79	76.51			
11929-MW15	1/21/2013*	100.39	100.58	**0.25**	26.38	74.01	33.5	23.3 - 33.3	77.3 - 67.3
	1/28/2016*			**1.06**	18.04	82.35			
	11/7/2018			**0.19**	23.11	77.28			
11929-MW16	1/21/2013	102.74	103.03	---	25.49	77.25	34.4	24.2 - 34.2	78.8 - 68.8
	1/28/2016			---	17.96	84.78			
	11/7/2018			---	23.67	79.07			
11929-MW17	1/21/2013*	102.09	102.49	**2.90**	27.47	74.62	35.0	24.8 - 34.8	77.7 - 67.7
	1/28/2016*			**0.06**	19.97	82.12			
	11/7/2018			**0.01**	23.82	78.27			
11929-MW18	1/21/2013*	100.39	100.74	**0.40**	27.12	73.27	35.6	25.4 - 35.4	75.3 - 65.3
	1/28/2016			---	19.46	80.93			
	11/7/2018			**0.03**	23.29	77.10			

NOTES:
Measurements are in feet; elevations are relative to an arbitrary site datum.
* = Depth to groundwater measurements have been corrected for the presence of free-product using a density of 0.70 g/cc.
BTOC = Below Top of Casing

Prepared By: IAI
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW01	12/13/96	---	**20.6**	**1.74**	**2.61**	**6.4**	ND	ND	NT	NT
	2/10/98	---	ND	ND	ND	ND	ND	ND	ND	NT
	3/29/99	---	2.6	ND	ND	ND	ND	ND	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	ND	ND	ND	ND	ND	ND	NT	NT
	2/3/04	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	ND	ND	ND	ND	ND	ND	**0.028**	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0048	<0.23
	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	**1.6 J**	<0.021	<0.40
11929-MW02	12/13/96	---	**249**	**22.5**	**43.5**	**363**	**11.1**	**900**	NT	NT
	2/10/98	**0.70**	**Not Sampled Due to the Presence of Free-Product**							
	3/29/99	**1.25**	**Not Sampled Due to the Presence of Free-Product**							
	7/5/01	**1.25**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/03	**1.92**	**Not Sampled Due to the Presence of Free-Product**							
	2/2/04	**0.01**	**Not Sampled Due to the Presence of Free-Product**							
	1/20/05	**0.23**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/06	---	**120**	ND	**6.8**	**170**	ND	**240**	**0.33**	NT
	5/29/07	**0.26**	**Not Sampled Due to the Presence of Free-Product**							
	9/9/08	**0.29**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	**0.02**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	---	**25.6**	<5	<5	**41.1J**	<5	**53.3**	**0.061**	<5
	11/2/11	---	**35.0**	<5	<5	**16.0**	**0.59J**	**110**	<0.019	<5
	1/21/13	---	**37.0**	<25	<25	**40.0**	<25	**440**	<0.019	<25
	1/28/16	---	**25.0**	<0.24	<0.21	**33.0**	<0.23	**59.0**	**0.013 J**	<0.23
	11/8/18	---	**29.0**	<2.0	<2.0	**19 J**	<2.0	**84.0**	<0.020	<2.0
11929-MW02D	2/10/98	---	**2.55**	ND	ND	**3.21**	ND	**12.5**	ND	NT
	3/29/99	---	**3.47**	ND	ND	ND	**3.12**	**4.3**	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	**1.4**	ND	ND	ND	**1.2**	ND	NT	NT
	2/3/04	---	ND	ND	ND	ND	**3.7**	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	**1.1**	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	**1.2J**	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	**2.9J**	<5	<5	<5	**0.68J**	**3.2J**	<0.019	<5
	1/21/13	---	**2.9J**	<5	<5	<5	**0.58J**	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	**0.57 J**	<0.0049	<0.23
	11/8/18	---	2.6 J	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
11929-MW03	2/10/98	---	**62.5**	**6.4**	**19.3**	**193**	ND	**106**	ND	NT
	3/29/99	**0.01**	**Not Sampled Due to the Presence of Free-Product**							
	7/5/01	**0.04**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/03	**0.12**	**Not Sampled Due to the Presence of Free-Product**							
	2/2/04	---	NS	NS	NS	NS	NS	NS	NS	NS
	1/20/05	---	NS	NS	NS	NS	NS	NS	NS	NS
	2/23/06	Monitoring Well Abandoned								
11929-MW03R	2/24/06	---	**40.0**	ND	ND	**81.0**	ND	**120**	**0.90**	NT
	5/29/07	---	**48.0**	ND	ND	**109**	ND	**140**	**0.51**	NT
	9/9/08	---	**23.2**	ND	ND	**17.7**	ND	**63.2**	**0.44**	ND
	2/23/09	**0.60**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**0.04**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**0.35**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/12	**0.21**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	---	**0.42 J**	<0.24	<0.21	**0.77 J**	<0.23	**1.4 J**	<0.0049	<0.23
	11/7/18	---	**10**	<0.40	<0.40	**15**	<0.40	**41**	**0.051**	**0.43 J**
11929-MW03R DUP	11/7/18	---	**10**	<0.40	<0.40	**15**	<0.40	**38**	**0.049**	<0.40

Prepared By: IAI
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW04	2/10/98	---	**2.2**	ND	**1.73**	**150**	ND	**186**	ND	NT
	3/29/99	---	ND	ND	ND	**10.6**	ND	**26.2**	NT	NT
	7/5/01	---	ND	ND	ND	**21.5**	ND	**49.6**	NT	NT
	1/28/03	---	ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	**0.96**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	NA	Well Dry							
	11/23/09	**0.47**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**1.32**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**0.37**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**0.08**	**Not Sampled Due to the Presence of Free-Product**							
	11/8/18	---	<0.40	<0.40	**0.71 J**	**9.8**	<0.40	**170**	<0.020	<0.40
11929-MW05	2/10/98	---	**16.5**	ND	ND	**6.83**	ND	**33.3**	ND	NT
	3/29/99	---	ND	ND	**1.13**	**6.26**	ND	**50.2**	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	**25.2**	**11.5**	**5.1**	**32.4**	ND	5.0	NT	NT
	2/2/04	---	**23.1**	**4.0**	**2.0**	**8.7**	ND	ND	NT	NT
	1/20/05	---	**11.0**	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	**1.0**	**5.9**	**2.8**	**7.8**	ND	**9.7**	ND	NT
	11/23/09	---	<5	<5	**1.8J**	<10	<5	<5	<0.019	<5
	11/2/11	---	**0.32J**	**2.3J**	**2.4J**	**3.6J**	<5	<5	<0.020	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0050	<0.23
	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-MW06	2/10/98	---	**523**	**1,670**	**104**	**434**	**92.7**	**409**	ND	NT
	3/29/99	**1.83**	**Not Sampled Due to the Presence of Free-Product**							
	7/5/01	**>3.0**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/03	**>3.0**	**Not Sampled Due to the Presence of Free-Product**							
	2/2/04	**2.19**	**Not Sampled Due to the Presence of Free-Product**							
	1/20/05	**1.72**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/06	**1.54**	**Not Sampled Due to the Presence of Free-Product**							
	5/29/07	**0.63**	**Not Sampled Due to the Presence of Free-Product**							
	9/9/08	**0.42**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	NA	Well Dry							
	11/23/09	**3.10**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**2.90**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**1.83**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**0.33**	**Not Sampled Due to the Presence of Free-Product**							
	11/7/18	**1.05**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW07	9/15/99	---	ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01	---	**12.9**	ND	ND	**11.6**	**6.8**	**20.1**	NT	NT
	1/28/03	---	**6.2**	ND	ND	**4.0**	**3.2**	**6.0**	NT	NT
	2/2/04	---	ND	ND	ND	ND	**3.8**	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	9/9/08	---	NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09	---	**34.0**	ND	ND	**40.6**	**2.8**	**89.9**	**0.23**	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.019	<5
	11/2/11	---	**0.22J**	<5	<5	<5	<5	<5	0.023	<5
	1/21/13	NA	Not Accessible / Site Access Not Granted							
	1/28/16	NA	Not Accessible / Site Access Not Granted							
	11/7/18	NA	Not Accessible / Not Located							

Prepared By: IAI
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW08	9/15/99	---	ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03	---	ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04	---	ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/21/13	NA	Not Accessible / Site Access Not Granted							
	1/28/16	NA	Not Accessible / Site Access Not Granted							
	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-MW09	2/3/04	---	ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0049	<0.23
	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
11929-MW10	2/2/04	---	ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	**5.4J**	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	---	<5	<5	<5	**2.3J**	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0047	<0.23
	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
11929-MW11	2/2/04	---	ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05	---	ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06	---	ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07	---	NT	NT	NT	NT	NT	NT	NT	NT
	9/9/08	---	NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	NA	Not Accessible / Site Access Not Granted							
	1/28/16	NA	Not Accessible / Site Access Not Granted							
	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-MW12	2/24/06	---	ND	ND	ND	ND	**6.1**	ND	ND	NT
	5/29/07	---	ND	ND	ND	ND	**11.0**	ND	NT	NT
	9/9/08	---	ND	ND	ND	ND	**11.8**	ND	ND	ND
	2/23/09	NA	Well Dry							
	11/23/09	---	<5	<5	<5	<10	**14.0**	<5	<0.02	<5
	11/2/11	---	<5	<5	<5	<5	**18.0**	<5	<0.019	<5
	1/21/13	---	<5	<5	<5	<5	**15.0**	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0048	<0.23
	11/7/18		<0.40	<0.40	<0.40	<0.40	**1.9 J**	<0.40	<0.020	<0.40
11929-MW13	2/24/06	---	**100**	ND	ND	**110**	ND	**100**	**0.76**	NT
	5/29/07	---	**160**	ND	ND	**199**	ND	**170**	**0.62**	NT
	9/9/08	---	**77.0**	ND	ND	**101**	ND	**226**	**0.162**	ND
	2/23/09	---	**23.5**	ND	ND	**46.2**	ND	**68.1**	**0.18**	NT
	11/23/09	---	**23.6**	<5	<5	**69.4**	<5	**58.4**	**0.46**	<5
	11/2/11	---	**34.0**	<5	<5	**82.0**	**1.7J**	**130**	**0.30**	<5
	1/21/13	---	**40.0**	<25	<25	**81.0**	<25	**190**	**0.12**	<25
	1/28/16	---	**43.0**	<0.24	<0.21	**100**	**0.39 J**	**130**	**0.058**	<0.23
	11/8/18		**25**	<0.40	<0.40	**61**	<0.40	**150**	<0.020	<0.40

Prepared By: IAI
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Results

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW14	2/24/06	---	**160**	**34.0**	**480**	**620**	ND	**160**	**0.46**	NT
	5/29/07	---	**220**	ND	**550**	**700**	ND	**250**	**0.26**	NT
	9/9/08	---	**82.4**	**3.81**	**54.8**	**67.1**	ND	**75.0**	**0.118**	ND
	2/23/09	---	**175**	**9.9**	**303**	**119.8**	**1.9**	**194**	**0.20**	NT
	11/23/09	---	**150**	**10.5**	**263**	**93.8J**	<10	**81.5**	**0.084**	<10
	11/2/11	---	**36.0**	**2.0J**	**65.0**	**4.3J**	<5	**29.0**	**0.013J**	<5
	1/21/13	---	**130**	<25	**360**	<25	<25	**160**	<0.021	<25
	1/28/16	---	**140**	**6.2 J**	**310**	**8.9 J**	<1.2	**100**	<0.0048	<1.2
	11/7/18	---	**48 J**	<4.0	**320**	<4.0	<4.0	**92**	<0.020	<4.0
11929-MW15	2/24/06	---	**100**	**8.0**	**25.0**	**160**	ND	**140**	**0.54**	NT
	5/29/07	---	**190**	**12.0**	**21.0**	**240**	ND	**390**	**0.45**	NT
	9/9/08	**0.29**	**Not Sampled Due to the Presence of Free-Product**							
	2/23/09	**0.13**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**0.90**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**0.87**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**0.25**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**1.06**	**Not Sampled Due to the Presence of Free-Product**							
	11/7/18	**0.19**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW16	2/23/09	---	ND	ND	ND	ND	ND	ND	ND	NT
	11/24/09	---	<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/21/13	---	<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16	---	<0.21	<0.24	<0.21	<0.32	<0.23	**0.98 J**	<0.0048	<0.23
	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	**2.2 J**	<0.020	<0.40
11929-MW17	2/23/09	**0.79**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**2.31**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**1.65**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**2.90**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**0.06**	**Not Sampled Due to the Presence of Free-Product**							
	11/7/18	**0.01**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW18	2/23/09	**0.45**	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**0.11**	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**0.56**	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**0.40**	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	---	**100**	**0.68 J**	**2.0 J**	**82.0**	**5.5**	**260**	**0.13**	<0.23
	11/7/18	**0.03**	**Not Sampled Due to the Presence of Free-Product**							
11929-FB-1	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-FB-2	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
Trip Blank	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold values indicate detections over the laboratory method detection limit.
Shaded cells indicate values exceeding the RBSL.
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled
NE = RBSL has not been established
RBSL = Risk Based Screening Level
J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.
MTBE = Methyl tertiary butyl ether
EDB = 1,2-Dibromoethane
1,2-DCA = 1,2-Dichloroethane

Prepared By: IAI
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
11929-MW01	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW02	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<50	<100	<25	<100	<25	<500	<5	<100
	1/28/16	<0.25	<1.5	<0.66	**8.9 J**	<0.26	<19	<0.13	<1.5
	11/8/18	<2.1	<40	<10	<40	<2.0	<200	<2.0	<40
11929-MW02D	2/23/09	NT	**70.5**	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/8/18	<0.42	**17 J**	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW03	2/23/06	Well Abandoned							
11929-MW03R	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW03R DUP	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW04	2/23/09	Well Dry							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW05	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW06	2/23/09	Well Dry							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-MW07	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	Not Accessible / Site Access Not Granted							
	1/28/16	Not Accessible / Site Access Not Granted							
	11/7/18	Not Accessible / Not Located							
11929-MW08	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	Not Accessible / Site Access Not Granted							
	1/28/16	Not Accessible / Site Access Not Granted							
	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0

Prepared By: IAI
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
11929-MW09	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW10	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW11	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	Not Accessible / Site Access Not Granted							
	1/28/16	Not Accessible / Site Access Not Granted							
	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW12	2/23/09	Well Dry							
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	**0.67J**	<20	<5	<20	<5	46J	<1	<20
	1/21/13	**0.40J**	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW13	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/24/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	**9.1J**	<5	**11.0J**	<5	<100	<1	<20
	1/21/13	<50	<100	<25	<100	<25	<500	<5	<100
	1/28/16	<0.25	**8.4 J**	<0.66	**15 J**	<0.26	<19	<0.13	<1.5
	11/8/18	<0.42	**17 J**	<2.0	**13 J**	<0.40	<40	<0.40	<8.0
11929-MW14	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<20	<200	<100	<200	<10	<400	<20	<200
	11/2/11	<10	<20	<5	**22.0**	<5	<100	<1	<20
	1/21/13	<50	**110**	<25	<100	<25	<500	<5	<100
	1/28/16	<1.3	**130**	<3.3	**19 J**	<1.3	<96	<0.65	<7.5
	11/7/18	<4.2	**230**	<20	<80	<4.0	<400	<4.0	<80
11929-MW15	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-MW16	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW17	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	**Not Sampled Due to the Presence of Free-Product**							
	11/7/18	**Not Sampled Due to the Presence of Free-Product**							

Prepared By: IAI
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal
Greenville, Greenville County, South Carolina
UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
11929-MW18	2/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/23/09	**Not Sampled Due to the Presence of Free-Product**							
	11/2/11	**Not Sampled Due to the Presence of Free-Product**							
	1/21/13	**Not Sampled Due to the Presence of Free-Product**							
	1/28/16	<0.25	**9.4 J**	<0.66	**18 J**	**1.1 J**	<19	<0.13	<1.5
	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-FB-1	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-FB-2	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-TB-1	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold values indicate detections over the laboratory method detection limit.
Shaded cells indicate values exceeding the RBSL.
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.

Prepared By: IAI
Checked By: TJB

TABLE 3

AFVR Event Data
November 26-30, 2018
Former Ryder Terminal
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #11929; Cost Agreement #57813
BLE Project No. J18-1010-24

			Monitoring Well Gauging Data								AFVR Field Measurements				Air Emissions		
			AFVR Well Vacuum (in. of Hg)			AFVR Well Stinger Depths (feet btoc)			Adjacent Well Vacuum (in. of Hg)	Adjacent Well Depth to FP / Groundwater (ft btoc)	Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	10250-MW06	10250-MW15	10250-MW18	10250-MW06	10250-MW15	10250-MW18	10250-MW17	10250-MW17							
11/26/2018	08:00	0.0	18.0	23.0	25.0	23.0	26.0	24.0	0.0	23.39 / 23.41	25.0	50	68.7	240	20.9	302	0.0
11/26/2018	08:30	0.5	18.0	23.0	25.0	23.5	26.5	24.5	0.0	23.39 / 23.41	25.0	62	93.6	296	25.8	287	0.1
11/26/2018	09:00	1.0	18.0	23.0	25.0	24.0	27.0	25.0	0.0	23.39 / 23.42	25.0	75	93.6	323	28.2	320	0.1
11/26/2018	09:30	1.5	18.0	23.0	25.0	24.5	27.5	25.5	0.0	23.40 / 23.42	25.0	80	93.0	388	33.9	310	0.0
11/26/2018	10:00	2.0	18.0	23.0	25.0	25.0	28.0	26.0	0.0	23.41 / 23.43	25.0	95	93.6	431	37.6	310	0.0
11/26/2018	10:30	2.5	18.0	23.0	25.0	25.5	28.5	26.5	0.0	23.41 / 23.43	25.0	95	94.4	370	32.3	370	0.0
11/26/2018	11:00	3.0	18.0	23.0	25.0	26.0	29.0	27.0	0.0	23.42 / 23.44	25.0	95	94.8	330	28.8	356	0.0
11/26/2018	11:30	3.5	18.0	23.0	25.0	26.5	29.5	27.5	0.0	23.42 / 23.45	25.0	95	94.6	301	26.3	323	0.0
11/26/2018	12:00	4.0	18.0	23.0	25.0	27.0	30.0	28.0	0.0	23.43 / 23.45	25.0	95	93.7	322	28.1	323	0.0
11/26/2018	12:30	4.5	18.0	23.0	25.0	27.0	30.0	28.5	0.0	23.44 / 23.45	25.0	95	93.4	333	29.1	367	0.0
11/26/2018	13:00	5.0	18.0	23.0	25.0	27.0	30.0	29.0	0.0	23.44 / 23.46	25.0	90	94.4	332	29.0	404	0.0
11/26/2018	13:30	5.5	18.0	23.0	25.0	27.0	30.0	29.5	0.0	23.46 / 23.49	25.0	95	94.6	377	32.9	448	0.0
11/26/2018	14:00	6.0	18.0	23.0	25.0	27.0	30.0	30.0	0.0	23.47 / 23.49	25.0	95	94.8	356	31.1	448	0.0
11/26/2018	14:30	6.5	18.0	23.0	25.0	27.0	30.0	30.5	0.0	23.48 / 23.50	25.0	100	93.7	327	28.5	399	0.0
11/26/2018	15:00	7.0	18.0	23.0	25.0	27.0	30.0	31.0	0.0	23.48 / 23.51	25.0	100	94.7	336	29.3	309	0.0
11/26/2018	15:30	7.5	18.0	23.0	25.0	27.0	30.0	31.5	0.0	23.49 / 23.52	25.0	90	94.1	356	31.1	301	0.0
11/26/2018	16:00	8.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.50 / 23.53	25.0	90	93.7	391	34.1	301	0.0
11/26/2018	16:30	8.5	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.50 / 23.53	25.0	90	92.9	350	30.5	352	0.0
11/26/2018	17:00	9.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.52 / 23.55	25.0	85	93.0	309	27.0	327	0.0
11/26/2018	18:00	10.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.53 / 23.56	25.0	80	93.5	322	28.1	294	0.0
11/26/2018	19:00	11.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.54 / 23.57	25.0	80	94.0	298	26.0	294	0.0
11/26/2018	20:00	12.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.57 / 23.60	25.0	75	94.5	319	27.8	272	0.0
11/26/2018	21:00	13.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.59 / 23.64	25.0	68	94.1	350	30.5	285	0.2
11/26/2018	22:00	14.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.62 / 23.67	25.0	66	93.6	322	28.1	276	0.4
11/26/2018	23:00	15.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.64 / 23.68	25.0	70	88.8	301	26.3	276	0.4
11/27/2018	00:00	16.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.67 / 23.72	25.0	72	80.4	391	34.1	263	0.4
11/27/2018	08:00	24.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.81 / 23.87	24.0	78	81.3	377	32.9	292	0.4
11/27/2018	10:00	26.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.84 / 23.90	24.0	82	82.2	377	32.9	273	0.4
11/27/2018	12:00	28.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.87 / 23.96	25.0	82	90.4	391	34.1	273	0.4
11/27/2018	14:00	30.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.90 / 23.98	25.0	85	93.9	364	31.8	267	1.1
11/27/2018	16:00	32.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.94 / 24.00	25.0	80	91.2	336	29.3	280	1.5
11/27/2018	18:00	34.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.97 / 24.04	25.0	75	88.3	311	27.1	249	1.4
11/27/2018	20:00	36.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.01 / 24.08	24.0	67	76.4	294	25.7	249	1.5
11/27/2018	22:00	38.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.05 / 24.11	24.0	62	74.3	288	25.1	293	1.6
11/28/2018	00:00	40.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.07 / 24.13	24.0	64	72.4	321	28.0	316	1.6
11/28/2018	08:00	48.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.31 / 24.38	25.0	62	67.1	304	26.5	242	1.6
11/28/2018	10:00	50.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.35 / 24.41	25.0	69	72.6	322	28.1	242	1.7
11/28/2018	12:00	52.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.39 / 24.45	25.0	72	78.4	383	33.4	261	1.7
11/28/2018	14:00	54.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.44 / 24.50	25.0	76	87.6	341	29.8	226	1.8
11/28/2018	16:00	56.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.49 / 24.55	25.0	88	88.3	423	36.9	223	1.8
11/28/2018	18:00	58.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.52 / 24.58	25.0	84	82.9	423	36.9	223	1.9
11/28/2018	20:00	60.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.55 / 24.61	25.0	88	91.1	404	35.3	242	2.0
11/28/2018	22:00	62.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.59 / 24.67	25.0	85	91.0	391	34.1	247	2.0
11/29/2018	00:00	64.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.62 / 24.69	25.0	75	91.4	415	36.2	239	2.6
11/29/2018	08:00	72.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.75 / 24.82	25.0	68	90.8	391	34.1	239	2.8
11/29/2018	10:00	74.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.77 / 24.83	25.0	62	90.4	415	36.2	225	3.0
11/29/2018	12:00	76.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.78 / 24.86	25.0	80	80.1	423	36.9	238	3.1
11/29/2018	14:00	78.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.80 / 24.88	25.0	82	81.3	397	34.6	223	3.2
11/29/2018	16:00	80.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.82 / 24.87	25.0	84	82.6	401	35.0	223	3.4
11/29/2018	18:00	82.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.85 / 24.92	25.0	86	84.7	441	38.5	205	3.5
11/29/2018	20:00	84.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.85 / 24.93	25.0	82	85.6	421	36.7	198	3.6
11/29/2018	22:00	86.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.86 / 24.93	25.0	80	87.2	402	35.1	208	3.7
11/30/2018	00:00	88.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.87 / 24.93	25.0	76	76.3	410	35.8	208	3.9
11/30/2018	08:00	96.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.89 / 24.95	25.0	80	74.4	411	35.9	210	4.3

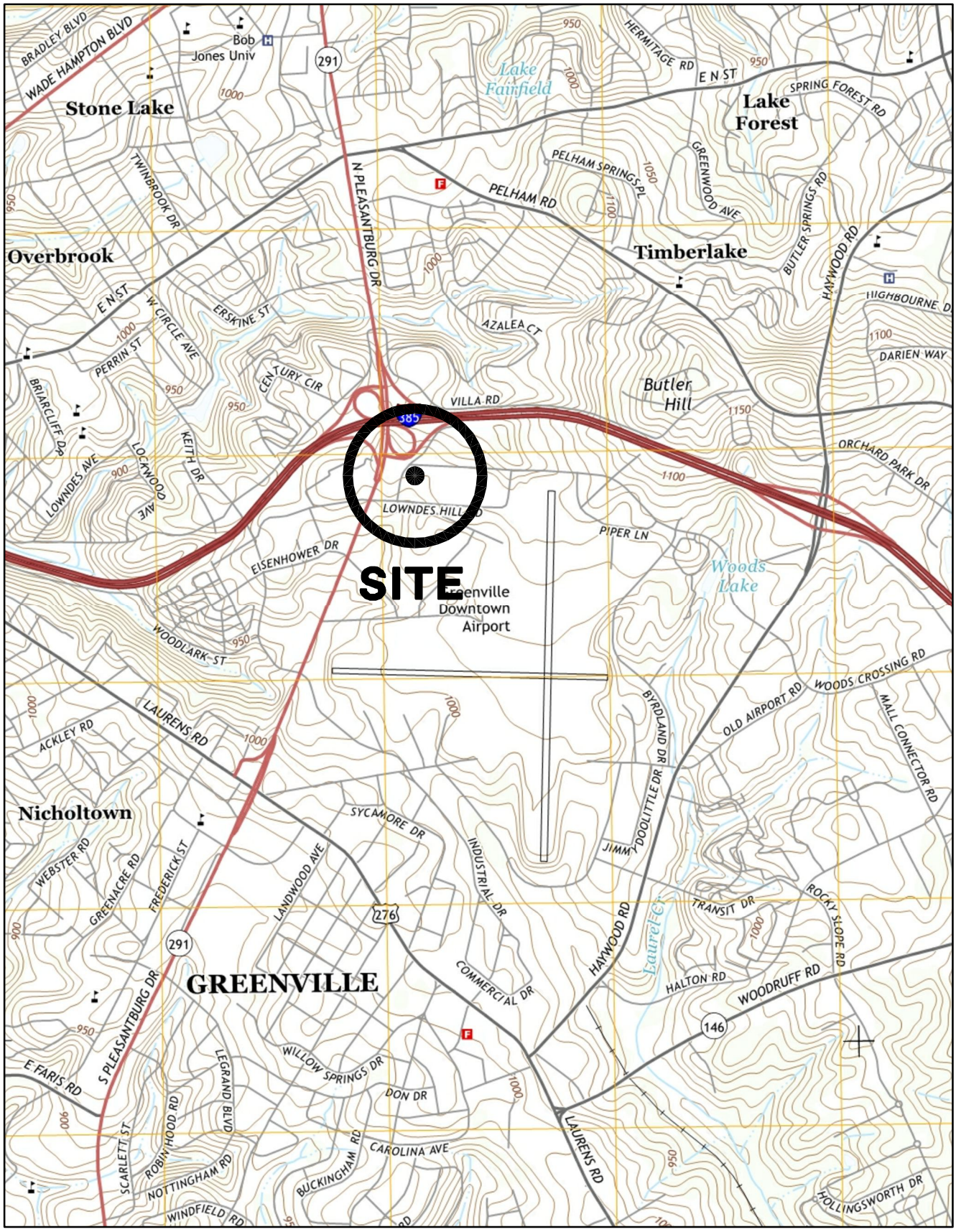
Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
10250-MW06	24.21	25.65	1.44	NFPP	28.82	NFPP	3.17
10250-MW15	23.12	23.35	0.23	NFPP	28.61	NFPP	5.26
10250-MW18	23.35	23.38	0.03	NFPP	26.81	NFPP	3.43
10250-MW17	23.39	23.41	0.02	24.89	24.95	0.06	1.54

Recovery Information	
Total Volume of Water (gallons)	7,111
Total Volume of FPP (gallons)	2.0
Total Calculated Carbon Recovered as Emissions (pounds)	5.9
Total Calculated Gasoline Recovered as Emissions (pounds)	6.8
Total Calculated Gasoline Recovered as Emissions (gallons)	0.9

Notes: 4-inch diameter stack size
btoc - below top of casing
Vapor concentrations measured with portable MiniRAE® 3000 PID.
PID - Photo-Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPP - No Free-Phase Product
°F - Fahrenheit
CFM - Cubic feet per minute
FPP - Free-Phase Product
##.## / ##.## - Depth to FPP, Depth to Groundwater
- / ##.## - No FPP / Depth to Groundwater

Prepared By: PW
Checked By: TJB

FIGURES

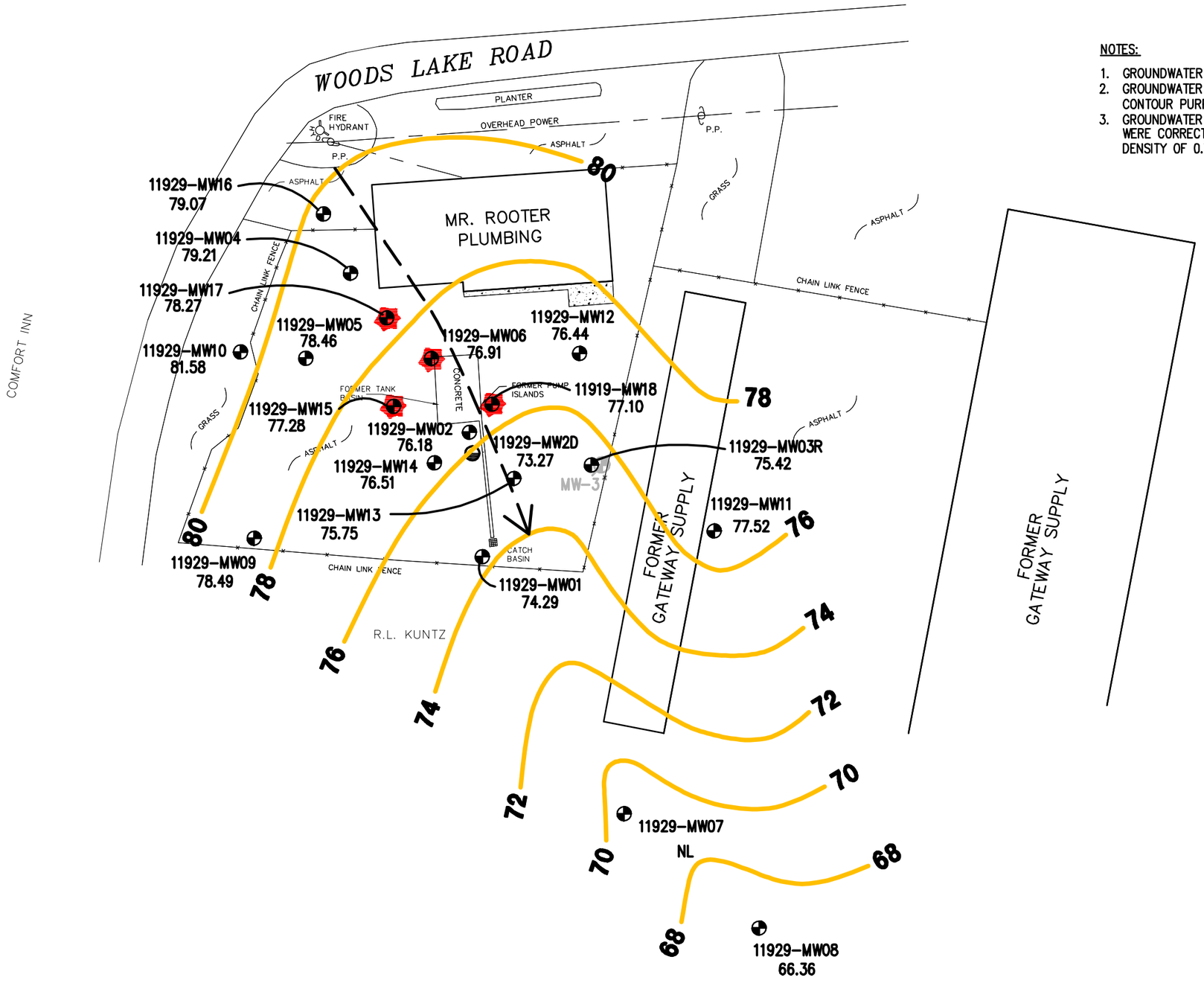


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 8-6-18	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED: TJB	CAD: FORMERRTT-24SLM	6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430	1
APPROVED:	JOB NO: J18-1010-24	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA	



NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON NOVEMBER 7, 2018.
2. GROUNDWATER ELEVATION DATA FOR MW-02D WAS IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. GROUNDWATER ELEVATIONS FOR MW-06, MW-15, MW-17 AND MW-18 WERE CORRECTED FOR THE PRESCENCE OF FREE-PRODUCT USING A DENSITY OF 0.70 g/cm.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 79.21 — GROUNDWATER ELEVATION (FEET)
- 74 — GROUNDWATER ELEVATION CONTOUR, CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- FREE PRODUCT
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE

60 30 0 60 120

APPROXIMATE SCALE IN FEET

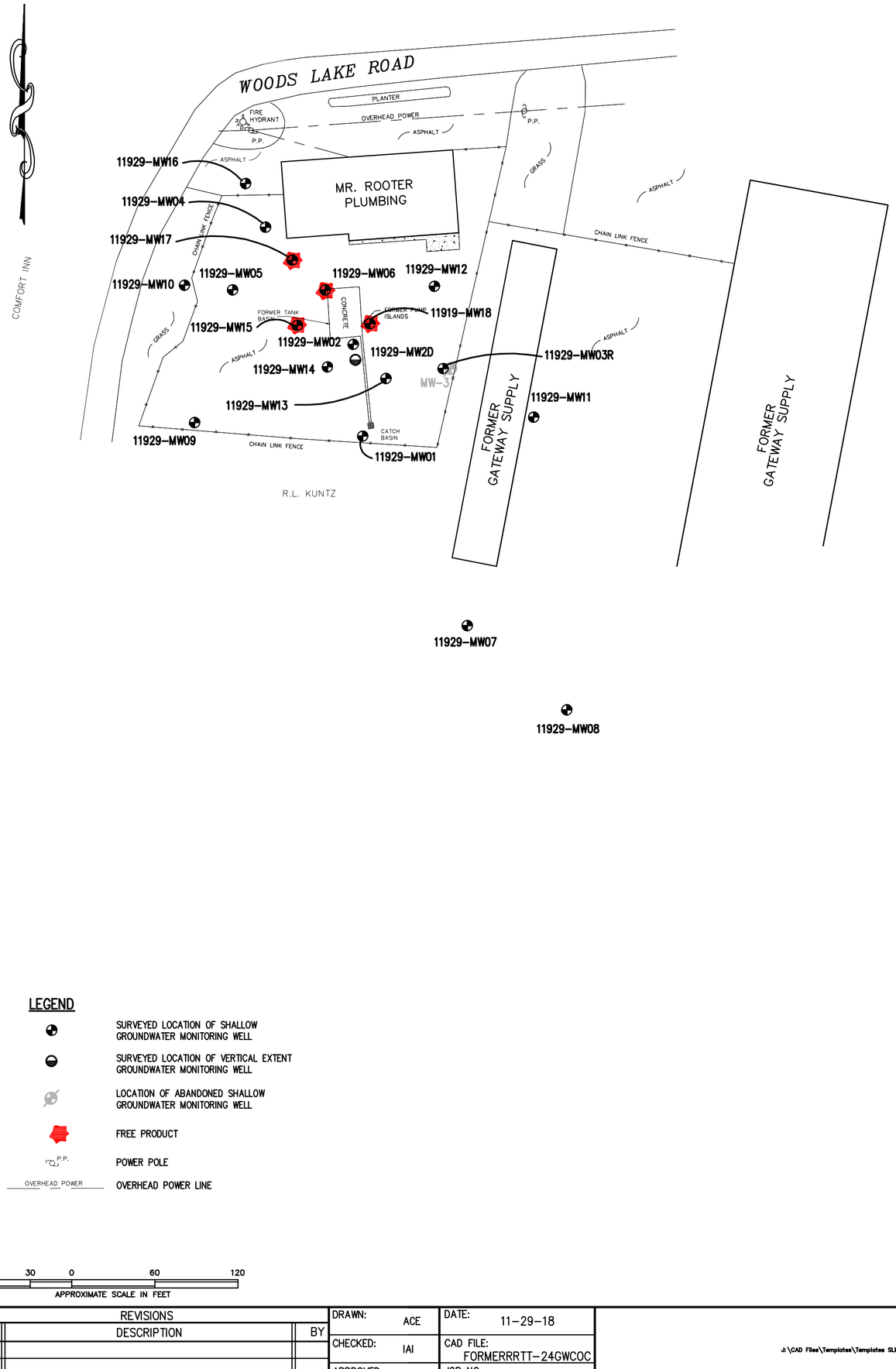
REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY: ACE	DATE: 11-29-18	REVISIONS	
CHECKED BY: TJB	FILE: FORMERRTT-24FWTM	No. / DESCRIPTION / BY	
APPROVED BY:	JOB NO: J18-1010-24		

BUNNELL LAMMONS ENGINEERING
6004 Ponders Court, Greenville, SC 29615
Phone: (864) 288-1265 Fax: (864) 288-4430

GROUNDWATER ELEVATION CONTOUR MAP – NOVEMBER 2018
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE 2



Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL		---	5	1,000	700	10,000	40	25	0.05	5
11929-MW01	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	**1.6 J**	<0.021	<0.40
11929-MW02	11/8/18	---	**29.0**	<2.0	<2.0	**19 J**	<2.0	**84.0**	<0.020	<2.0
11929-MW02D	11/8/18	---	2.6 J	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
11929-MW03	2/23/06	Monitoring Well Abandoned								
11929-MW03R	11/7/18	---	**10**	<0.40	<0.40	**15**	<0.40	**41**	**0.051**	**0.43 J**
11929-MW03R DUP	11/7/18	---	**10**	<0.40	<0.40	**15**	<0.40	**38**	**0.049**	<0.40
11929-MW04	11/8/18	---	<0.40	<0.40	**0.71 J**	**9.8**	<0.40	**170**	<0.020	<0.40
11929-MW05	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-MW06	11/7/18	**1.05**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW07	11/7/18	NA	Not Accessible / Not Located							
11929-MW08	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-MW09	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
11929-MW10	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
11929-MW11	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-MW12	11/7/18		<0.40	<0.40	<0.40	<0.40	**1.9 J**	<0.40	<0.020	<0.40
11929-MW13	11/8/18		**25**	<0.40	<0.40	**61**	<0.40	**150**	<0.020	<0.40
11929-MW14	11/7/18	---	**48 J**	<4.0	**320**	**<4.0**	<4.0	**92**	<0.020	<4.0
11929-MW15	11/7/18	**0.19**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW16	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	**2.2 J**	<0.020	<0.40
11929-MW17	11/7/18	**0.01**	**Not Sampled Due to the Presence of Free-Product**							
11929-MW18	11/7/18	**0.03**	**Not Sampled Due to the Presence of Free-Product**							
11929-FB-1	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
11929-FB-2	11/8/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
Trip Blank	11/7/18	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL		128	240	NE	1,400	150	10,000	47	NE
11929-MW01	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW02	11/8/18	<2.1	<40	<10	**<40**	<2.0	<200	<2.0	<40
11929-MW02D	11/8/18	<0.42	17 J	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW03	2/23/06	Well Abandoned							
11929-MW03R	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW03R DUP	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW04	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW06	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-MW07	11/7/18	Not Accessible / Not Located							
11929-MW08	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW09	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW10	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW11	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW12	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW13	11/8/18	<0.42	**17 J**	<2.0	**13 J**	<0.40	<40	<0.40	<8.0
11929-MW14	11/7/18	<4.2	**230**	<20	<80	<4.0	<400	<4.0	<80
11929-MW15	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-MW16	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-MW17	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-MW18	11/7/18	**Not Sampled Due to the Presence of Free-Product**							
11929-FB-1	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-FB-2	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
11929-TB-1	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0

Notes:
µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
Bold values indicate detections over the laboratory method detection limit.
Shaded cells indicate values exceeding the RBSL.
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- FREE PRODUCT
- P.P. POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE

60 30 0 60 120
APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

REVISIONS		
No.	DESCRIPTION	BY

DRAWN:	ACE	DATE:	11-29-18
CHECKED:	IAI	CAD FILE:	FORMERRRTT-24GWCOC
APPROVED:	TJB	JOB NO:	J18-1010-24

J:\CAD Files\Templates\Templates SLM\CAD Logo.jpg

GROUNDWATER COC MAP - NOVEMBER 2018
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE NO.
3

APPENDICES

APPENDIX A

DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: 1-800-947-6805

4. Waste Tracking Number: 181127A

5. Generator's Name and Mailing Address
BUNNELL LAMOS ENGINEERING
600-A PONDERS CT.
GREENVILLE SC 29615

Generator's Site Address (if different than mailing address)
10 WOODS LAKE RD.
GREENVILLE SC 29605

Generator's Phone:

6. Transporter 1 Company Name: PHILLIPS RECOVERIES
U.S. EPA ID Number: SCR000007852

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

8. Designated Facility Name and Site Address
VLS INC.
305 S. MAIN ST.
MULLINS SC 29662
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.	WELL WATER #21147	001	TT	4000	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
LOAD 100p-145p

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

Generator's/Offeror's Printed/Typed Name: Daniel T Coffee
Signature
Month: 11 Day: 27 Year: 18

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: MITCH COTHRAN
Signature
Month: 11 Day: 27 Year: 18

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

2,715 GAL BASED ON WEIGHT

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

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

Printed/Typed Name: Steven Lockamy
Signature
Month: 11 Day: 27 Year: 18

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

098372

SCALE TICKET

11/27/2018	02:09PM
Progressive	22663
RcD I.D.	1540
Inbound weight	54700 lb

11/27/2018	02:51PM
Progressive	22667
RcD I.D.	1540
Gross	54700 lb
Tare	32060 lb
Net	22640 lb

Scale Company: VLS

Weighed By: T.Q.

Carrier: PRI

Customer: BLE

PO/BOL/Manifest

Tractor Number: 123

Trailer Number: AV1106

Driver Signature:

WHITE - Driver YELLOW - Driver CARD - Scale

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number 20181129A

GENERATOR

5. Generator's Name and Mailing Address
BLE
6004 Ponders Ct.
Greenville SC 29615
Generator's Phone:

Generator's Site Address (if different than mailing address)
10 Woods Lake Rd.
Greenville, SC 29605

6. Transporter 1 Company Name: Phillips Recoveries — U.S. EPA ID Number: SCR000028567

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

8. Designated Facility Name and Site Address
VLS
305 S. Main St.
Facility's Phone: Mauldin SC 29662
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Well Water #21147	001	TT	4000	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Load 210p - 245p

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

Generator's/Offeror's Printed/Typed Name: Brian K. White — Signature: Brian K White — Month 11 Day 29 Year 18

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: Mitch Cothran — Signature: Mitch Cothran — Month 11 Day 29 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

2,758 @ GAL BASED ON WEIGHT

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

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

Printed/Typed Name: Mitch Cothran — Signature — Month 11 Day 29 Year 18

098482

SCALE TICKET

11/29/2018	03:04PM
Progressive	22864
RcD I.D.	510
Inbound weight	54860 lb

11/29/2018	03:35PM
Progressive	22869
RcD I.D.	510
Gross	54860 lb
Tare	31860 lb
Net	23000 lb

Scale Company: VLS

Weighed By: LJ

Carrier: PRI

Customer: BLE

PO/BOL/Manifest

Tractor Number: 123

Trailer Number: AVT106

Driver Signature: Mike Cook

WHITE - Driver YELLOW - Driver CARD - Scale

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				120318A

GENERATOR

5. Generator's Name and Mailing Address
Bunnell Lammons Engineering
10004 Ponders Ct
Greenville, SC 29615
Generator's Phone:

Generator's Site Address (if different than mailing address)
10 Woods Lake Rd (Former Ryder Terminal)
Greenville, SC

6. Transporter 1 Company Name
Phillips Recoveries
U.S. EPA ID Number
SCR000784052

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

8. Designated Facility Name and Site Address
VLS Recovery Services
305 S. Main St
Mauldin, SC 29662
Facility's Phone:
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Well water #21147	001	TT	EST 4000	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Brian K. White
Signature: Signature on File
Month / Day / Year:

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Scott Terry
Signature:
Month: 11 Day: 30 Year: 18

Transporter 2 Printed/Typed Name: Mitch Cothran
Signature:
Month: 12 Day: 3 Year: 18

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

1,638 GAL BASED ON WEIGHT

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month / Day / Year:

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

Printed/Typed Name: Franky Chappell
Signature: Franky Chappell
Month: 12 Day: 3 Year: 18

098580

SCALE TICKET

12/03/2018	02:10PM
Progressive	23039
RcD I.D.	51
Inbound weight	45660 lb

12/03/2018	02:57PM
Progressive	23048
RcD I.D.	51
Gross	45660 lb
Tare	32000 lb
Net	13660 lb

Scale Company: VLS

Weighed By: LS

Carrier: PRI

Customer: BLE

PO/BOL/Manifest

Tractor Number: 423

Trailer Number: 106

Driver Signature: Mitch Cobb

WHITE - Driver YELLOW - Driver CARD - Scale

APPENDIX B

MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

If required, the monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services in West Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined in BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on November 7-8, 2018.

Quality Assurance			
pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU
Chain of Custody			
Peter J. Wylie	11/9/18 : 1027	Shealy	11/9/18 : 1027

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel PW
General Weather Conditions Clear
Ambient Air Temperature (°F) 22

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-1

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	–	ft
Total Well Depth (TWD)	31.00	ft
Depth to Groundwater (DGW)	26.41	ft
Length of Water Colum (LWC = TWD-DGW)		4.59 ft
1 Casing Volume (LWC*C) =	X .17 =	0.78 gals
3 Casing Volumes = 3 X (Standard Purge Volume)	=	2.34 gals

Total Volume of Water Purged Before Sampling 4.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	–	1.0	2.0	3.0	4.0			
Time (military)	1614	1618	1622	1626	1632			
pH (s.u)	6.21	5.97	6.01	6.01	6.01			
Specific Conductivity	155.1	157.3	165.2	165.6	165.1			
Water Temperature (°C)	19.1	18.8	18.8	18.7	18.7			
Turbidity (subjective: clear, slightly cloudy, cloudy)	12.9	355	806	52.7	8.69			
Dissolved Oxygen (mg/l)	2.6	2.3	2.3	2.3	2.3			

Remarks: MW-1 sampled @ 1632 on 11/7/18.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2

Well Diameter (D) 2 inch of 30.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	-	ft
Total Well Depth (TWD)	30.00	ft
Depth to Groundwater (DGW)	23.92	ft
Length of Water Colum (LWC = TWD-DGW)	6.08	ft
1 Casing Volume (LWC*C) = ____ X .17 =	1.03	gals
3 Casing Volumes = 3 X ____ = (Standard Purge Volume)	3.10	gals

Total Volume of Water Purged Before Sampling 15 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	3.0	6.0	9.0	12.0	15.0		
Time (military)	1236	1243	1248	1254	1300	1306		
pH (s.u)	6.22							
Specific Conductivity	99.21	Heavy	Heavy	Heavy	Heavy	Heavy		
Water Temperature (°C)	21.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.89	Sheen	Sheen	Sheen	Sheen	Sheen		
Dissolved Oxygen (mg/l)	0.9							

Heavy sheen, odor

Remarks: MW-2 sampled @ 1306 on 11/8/18.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-2D

Well Diameter (D) 2 inch of 54.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	-	ft
Total Well Depth (TWD)	54.50	ft
Depth to Groundwater (DGW)	26.02	ft
Length of Water Colum (LWC = TWD-DGW)	28.48	ft
1 Casing Volume (LWC*C) = ____ X .17 =	4.84	gals
3 Casing Volumes = 3 X ____ = (Standard Purge Volume)	14.52	gals

Total Volume of Water Purged Before Sampling 20 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	5.0	10.0	15.0	20.0			
Time (military)	1126	1136	1148	1200	1212			
pH (s.u)	6.48	6.94	6.75	6.65	6.64			
Specific Conductivity	139.7	167.6	152.2	149.7	148.7			
Water Temperature (°C)	20.9	20.0	19.8	19.9	20.0			
Turbidity (subjective: clear, slightly cloudy, cloudy)	37.5	36.5	15.4	12.9	9.91			
Dissolved Oxygen (mg/l)	2.4	1.4	1.2	1.1	1.2			

Remarks: MW-2D sampled @ 1212 on 11/8/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel PW
General Weather Conditions Clear
Ambient Air Temperature (°F) 23

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Well # MW-3R

Well Diameter (D) 2 inch of 32.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 32.40 ft
Depth to Groundwater (DGW) 23.58 ft
Length of Water Colum (LWC = TWD-DGW) 8.82 ft
1 Casing Volume (LWC*C) = X .17 = 1.49 gals
3 Casing Volumes = 3 X = 4.49 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.5 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	1.5	3.0	4.5	6.0	7.5		
Time (military)	1508	1513	1518	1523	1528	1533		
pH (s.u)	6.28							
Specific Conductivity	81.65	Heavy	Heavy	Heavy	Heavy	Heavy		
Water Temperature (°C)	20.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	15.7	Sheen	Sheen	Sheen	Sheen	Sheen		
Dissolved Oxygen (mg/l)	1.2							

Heavy sheen, odor

Remarks: MW-3R sampled @1533 on 11/7/18. MW-3R Dup @1535 on 11/7/18.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness - ft
Total Well Depth (TWD) 29.50 ft
Depth to Groundwater (DGW) 23.46 ft
Length of Water Colum (LWC = TWD-DGW) 6.04 ft
1 Casing Volume (LWC*C) = X .17 = 1.03 gals
3 Casing Volumes = 3 X = 3.08 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	1.0						
Time (military)	1412	1425						
pH (s.u)								
Specific Conductivity	Heavy	Heavy						
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sheen	Sheen						
Dissolved Oxygen (mg/l)								

Dry @ 1.0 gal Heavy sheen, odor

Remarks:
MW-4 sampled @ 1425 on 11/8/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel MDM
General Weather Conditions Sunny
Ambient Air Temperature (°F) 27

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-5

Well Diameter (D) 2 inch of 29.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	—	ft	
Total Well Depth (TWD)	29.00	ft	
Depth to Groundwater (DGW)	23.02	ft	
Length of Water Colum (LWC = TWD-DGW)			5.98 ft
1 Casing Volume (LWC*C) =	5.98	X .17 =	1.02 gals
3 Casing Volumes = 3 X	1.02 (Standard Purge Volume)	=	3.06 gals

Total Volume of Water Purged Before Sampling 3.5 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	1.5	2.5	3.5				
Time (military)	1536	1544	1550	1600				
pH (s.u)	5.68	5.78	5.81	5.84				
Specific Conductivity	91.39	125.2	126.4	130.1				
Water Temperature (°C)	21.9	21.7	21.5	21.5				
Turbidity (subjective: clear, slightly cloudy, cloudy)	86.7	24.3	16.1	8.93				
Dissolved Oxygen (mg/l)	2.1	1.7	1.7	1.6				

Remarks: Well Sampled @ 1600 on 11/7/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-6

Well Diameter (D) 2 inch of 29.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness 1.50 ft
Total Well Depth (TWD) 29.50 ft
Depth to Groundwater (DGW) 25.88 ft
Length of Water Colum (LWC = TWD-DGW) 3.62 ft
1 Casing Volume (LWC*C) = X .17 = 0.62 gals
3 Casing Volumes = 3 X = 1.85 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling – gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Not sampled due to free product.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-7

Well Diameter (D) 2 inch of 32.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 32.80 ft
Depth to Groundwater (DGW) — ft
Length of Water Colum (LWC = TWD-DGW) ft
1 Casing Volume (LWC*C) = X .17 = gals
3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Not located - ~~under~~ covered by brush pile

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-8

Well Diameter (D) 2 inch of 29.80 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness – ft
Total Well Depth (TWD) 29.80 ft
Depth to Groundwater (DGW) 22.40 ft
Length of Water Colum (LWC = TWD-DGW) 7.40 ft
1 Casing Volume (LWC*C) = X .17 = 1.26 gals
3 Casing Volumes = 3 X = 3.77 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	–	1.5	3.0	4.5	6.0			
Time (military)	1008	1012	1016	1020	1024			
pH (s.u)	5.57	5.51	5.50	5.51	5.50			
Specific Conductivity	39.18	40.71	39.26	40.99	39.76			
Water Temperature (°C)	21.8	22.2	22.2	21.8	21.8			
Turbidity (subjective: clear, slightly cloudy, cloudy)	15.8	264	370	137	9.54			
Dissolved Oxygen (mg/l)	1.8	1.4	1.5	1.5	1.6			

Remarks: MW-8 sampled @ 1024 on 11/8/18.

FB-1 @ 1415 on 11/7/18
FB-2 @ 730 on 11/8/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel MPM
General Weather Conditions Sunny
Ambient Air Temperature (°F) 220

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-9

Well Diameter (D) 2 inch of 30.70 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness - ft
Total Well Depth (TWD) 30.70 ft
Depth to Groundwater (DGW) 23.77 ft
Length of Water Colum (LWC = TWD-DGW) 6.93 ft
1 Casing Volume (LWC*C) = 6.93 X .17 = 1.18 gals
3 Casing Volumes = 3 X 1.18 = 3.54 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	1.5	3.0	4.0				
Time (military)	1428	1434	1440	1444				
pH (s.u)	5.78	5.59	5.54	5.52				
Specific Conductivity	48.78	43.33	46.29	47.72				
Water Temperature (°C)	19.5	19.2	19.1	19.2				
Turbidity (subjective: clear, slightly cloudy, cloudy)	21.1	12.6	7.41	9.63				
Dissolved Oxygen (mg/l)	4.0	4.2	4.0	4.0				

Remarks: Well Sampled @ 1444 on 11/7/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel MPM
General Weather Conditions Sunny
Ambient Air Temperature (°F) 22°

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-10

Well Diameter (D) 2 inch of 30.10 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness - ft
Total Well Depth (TWD) 30.10 ft
Depth to Groundwater (DGW) 23.09 ft
Length of Water Colum (LWC = TWD-DGW) 7.01 ft
1 Casing Volume (LWC*C) = 7.01 X .17 = 1.19 gals
3 Casing Volumes = 3 X 1.19 = 3.57 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		1.5	3.0	4				
Time (military)	1500	1506	1514	1522				
pH (s.u)	5.37	5.12	5.12	5.09				
Specific Conductivity	52.49	57.37	61.86	59.42				
Water Temperature (°C)	21.5	21.1	20.9	21.0				
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.17	13.3	14.0	9.03				
Dissolved Oxygen (mg/l)	3.0	3.1	3.0	2.9				

Remarks: Well Sampled @ 1522 on 11/7/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-11

Well Diameter (D) 2 inch of 31.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness – ft
Total Well Depth (TWD) 31.00 ft
Depth to Groundwater (DGW) 23.14 ft
Length of Water Colum (LWC = TWD-DGW) 7.86 ft
1 Casing Volume (LWC*C) = X .17 = 1.34 gals
3 Casing Volumes = 3 X = 4.01 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.5 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	–	1.5	3.0	4.5	6.0	7.5		
Time (military)	926	930	934	938	942	946		
pH (s.u)	5.74	5.67	5.63	5.68	5.58	5.58		
Specific Conductivity	95.24	90.69	99.59	129.1	107.9	107.1		
Water Temperature (°C)	20.4	20.7	20.8	20.6	20.4	20.3		
Turbidity (subjective: clear, slightly cloudy, cloudy)	9.99	364	526	240	178	9.72		
Dissolved Oxygen (mg/l)	2.4	2.2	2.0	1.9	1.6	1.6		

Remarks: MW-11 sampled @ 946 on 11/8/18.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel PW
General Weather Conditions Clear
Ambient Air Temperature (°F) 22

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-12

Well Diameter (D) 2 inch of 30.90 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness - ft
Total Well Depth (TWD) 30.90 ft
Depth to Groundwater (DGW) 24.94 ft
Length of Water Colum (LWC = TWD-DGW) 5.96 ft
1 Casing Volume (LWC*C) = _____ X .17 = 1.01 gals
3 Casing Volumes = 3 X _____ = 3.04 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	1.0	2.0	3.0	4.0			
Time (military)	1431	1436	1441	1447	1453			
pH (s.u)	5.85	5.83	5.82	5.85	5.84			
Specific Conductivity	178.6	178.6	181.2	155.9	161.0			
Water Temperature (°C)	21.8	21.4	21.2	21.3	21.3			
Turbidity (subjective: clear, slightly cloudy, cloudy)	87.7	368	417	327	166			
Dissolved Oxygen (mg/l)	1.4	1.6	1.7	1.8	1.8			

Dry @ 4.0 gal

Remarks: MW-12 sampled @ 1453 on 11/7/18.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-13

Well Diameter (D) 2 inch of 33.20 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness - ft
Total Well Depth (TWD) 33.20 ft
Depth to Groundwater (DGW) 22.87 ft
Length of Water Colum (LWC = TWD-DGW) 10.33 ft
1 Casing Volume (LWC*C) = ____ X .17 = 1.76 gals
3 Casing Volumes = 3 X ____ = 5.27 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 10.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	2.0	4.0	6.0	8.0	10.0		
Time (military)	1338	1343	1347	1351	1356	1400		
pH (s.u)	6.28							
Specific Conductivity	121.4	Heavy	Heavy	Heavy	Heavy	Heavy		
Water Temperature (°C)	20.9							
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.61	Sheen	Sheen	Sheen	Sheen	Sheen		
Dissolved Oxygen (mg/l)	1.2							

Heavy sheen, odor

Remarks: MW-13 sampled @ 1400 on 11/8/18.

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel PW
General Weather Conditions Clear
Ambient Air Temperature (°F) 22

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-14

Well Diameter (D) 2 inch of 32.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	-	ft
Total Well Depth (TWD)	32.00	ft
Depth to Groundwater (DGW)	22.79	ft
Length of Water Colum (LWC = TWD-DGW)	9.21	ft
1 Casing Volume (LWC*C) = ____ X .17 =	1.57	gals
3 Casing Volumes = 3 X ____ = (Standard Purge Volume)	4.69	gals

Total Volume of Water Purged Before Sampling 6.0 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	-	1.5	3.0	4.5	6.0			
Time (military)	1659	1703	1708	1713	1719			
pH (s.u)	6.08	6.21	6.43	6.52	6.55			
Specific Conductivity	74.03	102.0	171.7	174.7	175.2			
Water Temperature (°C)	21.5	21.5	21.3	21.1	21.2			
Turbidity (subjective: clear, slightly cloudy, cloudy)	94.1	211	348	529	10.00			
Dissolved Oxygen (mg/l)	1.9	1.6	1.3	0.7	0.6			

Remarks: MW-14 sampled @ 1719 on 11/7/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-15

Well Diameter (D) 2 inch of 33.50 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness 0.19 ft
Total Well Depth (TWD) 33.50 ft
Depth to Groundwater (DGW) 23.31 ft
Length of Water Colum (LWC = TWD-DGW) 10.19 ft
1 Casing Volume (LWC*C) = X .17 = 1.73 gals
3 Casing Volumes = 3 X = 5.19 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Not sampled due to free product

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/7/18
Field Personnel MDM
General Weather Conditions Sunny
Ambient Air Temperature (°F) 22

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-16

Well Diameter (D) 2 inch of 34.40 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 34.40 ft
Depth to Groundwater (DGW) 23.67 ft
Length of Water Colum (LWC = TWD-DGW) 10.73 ft
1 Casing Volume (LWC*C) = 10.73 X .17 = 1.82 gals
3 Casing Volumes = 3 X 1.82 = 5.46 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.50 gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	—	2	4	5.5				
Time (military)	1608	1618	1626	1636				
pH (s.u)	5.64	5.29	5.30	5.24				
Specific Conductivity	100.3	111.7	114.0	113.9				
Water Temperature (°C)	21.4	21.2	21.4	21.3				
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.83	6.29	17.3	8.43				
Dissolved Oxygen (mg/l)	2.5	2.5	2.8	2.6				

Remarks: Well Sampled @ 1636 on 11/7/18

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17

Well Diameter (D) 2 inch of 35.00 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness 0.01 ft
Total Well Depth (TWD) 35.00 ft
Depth to Groundwater (DGW) 23.83 ft
Length of Water Colum (LWC = TWD-DGW) 11.17 ft
1 Casing Volume (LWC*C) = X .17 = 1.89 gals
3 Casing Volumes = 3 X = 5.69 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Not sampled due to free product

BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 11/8/18
Field Personnel PW
General Weather Conditions Overcast
Ambient Air Temperature (°F) 17

Facility Name: Former Ryder Truck Terminal Site ID #: 11929

Quality Assurance

pH Sensor: **Conductivity Sensor:**
serial no. serial no.
pH =4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard
DO Meter Standard
Standard **Turbidity:**

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-18

Well Diameter (D) 2 inch of 35.60 feet(ft)
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness 0.03 ft
Total Well Depth (TWD) 35.60 ft
Depth to Groundwater (DGW) 24.33 ft
Length of Water Colum (LWC = TWD-DGW) 11.27 ft
1 Casing Volume (LWC*C) = X .17 = 1.92 gals
3 Casing Volumes = 3 X = 5.75 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Not sampled due to free product

APPENDIX C

LABORATORY DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: Former Ryder Truck Terminal

Project Number: UST 11929

Lot Number:**TK09060**

Date Completed:11/19/2018

11/19/2018 2:35 PM
Approved and released by:
Lab Director - Greenville: Lucas Odom

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
Bunnell-Lammons Engineering, Inc.
Lot Number: TK09060

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOCs by GC/MS

The following samples was diluted due to the nature of the sample matrix: TK09060-002, TK09060-014. The LOQ has been elevated to reflect the dilution.

Sample Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: TK09060

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	11929-MW01	Aqueous	11/07/2018 1632	11/09/2018
002	11929-MW02	Aqueous	11/08/2018 1306	11/09/2018
003	11929-MW02D	Aqueous	11/08/2018 1212	11/09/2018
004	11929-MW03R	Aqueous	11/07/2018 1533	11/09/2018
005	11929-MW03R Dup	Aqueous	11/07/2018 1535	11/09/2018
006	11929-MW04	Aqueous	11/08/2018 1425	11/09/2018
007	11929-MW05	Aqueous	11/07/2018 1600	11/09/2018
008	11929-MW08	Aqueous	11/08/2018 1024	11/09/2018
009	11929-MW09	Aqueous	11/07/2018 1444	11/09/2018
010	11929-MW10	Aqueous	11/07/2018 1522	11/09/2018
011	11929-MW11	Aqueous	11/08/2018 0946	11/09/2018
012	11929-MW12	Aqueous	11/07/2018 1453	11/09/2018
013	11929-MW13	Aqueous	11/08/2018 1400	11/09/2018
014	11929-MW14	Aqueous	11/07/2018 1719	11/09/2018
015	11929-MW16	Aqueous	11/07/2018 1636	11/09/2018
016	11929-FB-1	Aqueous	11/07/2018 1415	11/09/2018
017	11929-FB-2	Aqueous	11/08/2018 0730	11/09/2018
018	11929-TB-1	Aqueous	11/07/2018	11/09/2018

(18 samples)

Detection Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: TK09060

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	11929-MW01	Aqueous	Naphthalene	8260B	1.6	J	ug/L	5
002	11929-MW02	Aqueous	Benzene	8260B	29		ug/L	6
002	11929-MW02	Aqueous	Naphthalene	8260B	84		ug/L	6
002	11929-MW02	Aqueous	Xylenes (total)	8260B	19	J	ug/L	6
003	11929-MW02D	Aqueous	tert-Amyl alcohol (TAA)	8260B	17	J	ug/L	7
003	11929-MW02D	Aqueous	Benzene	8260B	2.6	J	ug/L	7
004	11929-MW03R	Aqueous	Benzene	8260B	10		ug/L	8
004	11929-MW03R	Aqueous	1,2-Dichloroethane	8260B	0.43	J	ug/L	8
004	11929-MW03R	Aqueous	Naphthalene	8260B	41		ug/L	8
004	11929-MW03R	Aqueous	Xylenes (total)	8260B	15		ug/L	8
004	11929-MW03R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.051		ug/L	8
005	11929-MW03R Dup	Aqueous	Benzene	8260B	10		ug/L	9
005	11929-MW03R Dup	Aqueous	Naphthalene	8260B	38		ug/L	9
005	11929-MW03R Dup	Aqueous	Xylenes (total)	8260B	15		ug/L	9
005	11929-MW03R Dup	Aqueous	1,2-Dibromoethane (EDB)	8011	0.049		ug/L	9
006	11929-MW04	Aqueous	Ethylbenzene	8260B	0.71	J	ug/L	10
006	11929-MW04	Aqueous	Naphthalene	8260B	170		ug/L	10
006	11929-MW04	Aqueous	Xylenes (total)	8260B	9.8		ug/L	10
007	11929-MW05	Aqueous	Naphthalene	8260B	1.9	J	ug/L	11
012	11929-MW12	Aqueous	Methyl tertiary butyl ether	8260B	1.9	J	ug/L	16
013	11929-MW13	Aqueous	tert-Amyl alcohol (TAA)	8260B	17	J	ug/L	17
013	11929-MW13	Aqueous	Benzene	8260B	25		ug/L	17
013	11929-MW13	Aqueous	Naphthalene	8260B	150		ug/L	17
013	11929-MW13	Aqueous	tert-butyl alcohol (TBA)	8260B	13	J	ug/L	17
013	11929-MW13	Aqueous	Xylenes (total)	8260B	61		ug/L	17
014	11929-MW14	Aqueous	tert-Amyl alcohol (TAA)	8260B	230		ug/L	18
014	11929-MW14	Aqueous	Benzene	8260B	48	J	ug/L	18
014	11929-MW14	Aqueous	Ethylbenzene	8260B	320		ug/L	18
014	11929-MW14	Aqueous	Naphthalene	8260B	92		ug/L	18
015	11929-MW16	Aqueous	Naphthalene	8260B	2.2	J	ug/L	19

(30 detections)

Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-001
Description: 11929-MW01
Matrix: Aqueous
Date Sampled: 11/07/2018 1632
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1150	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	1.6	J	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 1903	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		69	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-002
Description: 11929-MW02
Matrix: Aqueous
Date Sampled: 11/08/2018 1306
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	11/15/2018 1843	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	40	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	2.1	ug/L	1
Benzene	71-43-2	8260B	29		25	2.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	40	ug/L	1
Ethanol	64-17-5	8260B	ND		500	200	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	84		25	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	40	ug/L	1
Toluene	108-88-3	8260B	ND		25	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	19	J	25	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 1914	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: TK09060-003
Description: 11929-MW02D | Matrix: Aqueous
Date Sampled: 11/08/2018 1212
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1216	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	17	J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	2.6	J	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 1925	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-004
Description: 11929-MW03R
Matrix: Aqueous
Date Sampled: 11/07/2018 1533
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1242	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	10		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	0.43	J	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	41		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	15		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 1935	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.051		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-005
Description: 11929-MW03R Dup
Matrix: Aqueous
Date Sampled: 11/07/2018 1535
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1307	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	10		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	38		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	15		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 1946	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.049		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-006
Description: 11929-MW04
Matrix: Aqueous
Date Sampled: 11/08/2018 1425
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1333	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	0.71	J	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	170		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	9.8		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 1957	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		84	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: TK09060-007
Description: 11929-MW05 | Matrix: Aqueous
Date Sampled: 11/07/2018 1600
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1359	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	1.9	J	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 2007	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-008
Description: 11929-MW08
Matrix: Aqueous
Date Sampled: 11/08/2018 1024
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1425	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 2018	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-009
Description: 11929-MW09
Matrix: Aqueous
Date Sampled: 11/07/2018 1444
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1451	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/14/2018 2029	SCD	11/14/2018 0113	89466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-010
Description: 11929-MW10
Matrix: Aqueous
Date Sampled: 11/07/2018 1522
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1517	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2113	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-011
Description: 11929-MW11
Matrix: Aqueous
Date Sampled: 11/08/2018 0946
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1542	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2124	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-012
Description: 11929-MW12
Matrix: Aqueous
Date Sampled: 11/07/2018 1453
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1608	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	1.9	J	5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2134	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Description: 11929-MW13
Date Sampled: 11/08/2018 1400
Date Received: 11/09/2018

Laboratory ID: TK09060-013
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1634	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	17	J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	25		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	150		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	13	J	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	61		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2145	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		84	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-014
Description: 11929-MW14
Matrix: Aqueous
Date Sampled: 11/07/2018 1719
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	11/15/2018 1909	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	230		200	80	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	4.2	ug/L	1
Benzene	71-43-2	8260B	48	J	50	4.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		50	20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	4.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	4.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		200	80	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	400	ug/L	1
Ethylbenzene	100-41-4	8260B	320		50	4.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1
Naphthalene	91-20-3	8260B	92		50	4.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	80	ug/L	1
Toluene	108-88-3	8260B	ND		50	4.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		50	4.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2156	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc. | Laboratory ID: TK09060-015
Description: 11929-MW16 | Matrix: Aqueous
Date Sampled: 11/07/2018 1636
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/15/2018 1700	BWS		89612

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	2.2	J	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2207	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Description: 11929-FB-1
Date Sampled: 11/07/2018 1415
Date Received: 11/09/2018

Laboratory ID: TK09060-016
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/13/2018 1146	BWS		89393

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2217	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-017
Description: 11929-FB-2
Matrix: Aqueous
Date Sampled: 11/08/2018 0730
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/13/2018 1209	BWS		89393

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		83	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/15/2018 2228	SCD	11/15/2018 1756	89676

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Bunnell-Lammons Engineering, Inc.
Laboratory ID: TK09060-018
Description: 11929-TB-1
Matrix: Aqueous
Date Sampled: 11/07/2018
Date Received: 11/09/2018

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/13/2018 1231	BWS		89393

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		82	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ89393-001
Batch: 89393
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/13/2018 1000
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/13/2018 1000
Benzene	ND		1	5.0	0.40	ug/L	11/13/2018 1000
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/13/2018 1000
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	11/13/2018 1000
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	11/13/2018 1000
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/13/2018 1000
Ethanol	ND		1	100	40	ug/L	11/13/2018 1000
Ethylbenzene	ND		1	5.0	0.40	ug/L	11/13/2018 1000
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/13/2018 1000
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	11/13/2018 1000
Naphthalene	ND		1	5.0	0.40	ug/L	11/13/2018 1000
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/13/2018 1000
Toluene	ND		1	5.0	0.40	ug/L	11/13/2018 1000
Xylenes (total)	ND		1	5.0	0.40	ug/L	11/13/2018 1000

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ89393-002
Batch: 89393
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	112	70-130	11/13/2018 0902
tert-Amyl methyl ether (TAME)	50	49		1	98	70-130	11/13/2018 0902
Benzene	50	48		1	95	70-130	11/13/2018 0902
tert-Butyl formate (TBF)	250	290		1	117	70-130	11/13/2018 0902
1,2-Dichloroethane	50	48		1	97	70-130	11/13/2018 0902
Diisopropyl ether (IPE)	50	53		1	106	70-130	11/13/2018 0902
3,3-Dimethyl-1-butanol	1000	1200		1	125	70-130	11/13/2018 0902
Ethanol	5000	5800		1	115	70-130	11/13/2018 0902
Ethylbenzene	50	46		1	92	70-130	11/13/2018 0902
Ethyl-tert-butyl ether (ETBE)	50	55		1	110	70-130	11/13/2018 0902
Methyl tertiary butyl ether (MTBE)	50	51		1	103	70-130	11/13/2018 0902
Naphthalene	50	54		1	107	70-130	11/13/2018 0902
tert-butyl alcohol (TBA)	1000	1100		1	113	70-130	11/13/2018 0902
Toluene	50	61		1	122	70-130	11/13/2018 0902
Xylenes (total)	100	92		1	92	70-130	11/13/2018 0902

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		120	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ89612-001
Batch: 89612
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/15/2018 1042
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/15/2018 1042
Benzene	ND		1	5.0	0.40	ug/L	11/15/2018 1042
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/15/2018 1042
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	11/15/2018 1042
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	11/15/2018 1042
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/15/2018 1042
Ethanol	ND		1	100	40	ug/L	11/15/2018 1042
Ethylbenzene	ND		1	5.0	0.40	ug/L	11/15/2018 1042
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/15/2018 1042
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	11/15/2018 1042
Naphthalene	ND		1	5.0	0.40	ug/L	11/15/2018 1042
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/15/2018 1042
Toluene	ND		1	5.0	0.40	ug/L	11/15/2018 1042
Xylenes (total)	ND		1	5.0	0.40	ug/L	11/15/2018 1042

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ89612-002
Batch: 89612
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920		1	92	70-130	11/15/2018 0941
tert-Amyl methyl ether (TAME)	50	52		1	105	70-130	11/15/2018 0941
Benzene	50	46		1	92	70-130	11/15/2018 0941
tert-Butyl formate (TBF)	250	290		1	117	70-130	11/15/2018 0941
1,2-Dichloroethane	50	48		1	95	70-130	11/15/2018 0941
Diisopropyl ether (IPE)	50	53		1	105	70-130	11/15/2018 0941
3,3-Dimethyl-1-butanol	1000	880		1	88	70-130	11/15/2018 0941
Ethanol	5000	5300		1	105	70-130	11/15/2018 0941
Ethylbenzene	50	47		1	94	70-130	11/15/2018 0941
Ethyl-tert-butyl ether (ETBE)	50	52		1	105	70-130	11/15/2018 0941
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	11/15/2018 0941
Naphthalene	50	50		1	99	70-130	11/15/2018 0941
tert-butyl alcohol (TBA)	1000	1100		1	107	70-130	11/15/2018 0941
Toluene	50	48		1	96	70-130	11/15/2018 0941
Xylenes (total)	100	93		1	93	70-130	11/15/2018 0941

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: TK09060-014MS
Batch: 89612
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	230	10000	6300	N	10	61	70-130	11/15/2018 2000
tert-Amyl methyl ether (TAME)	ND	500	390		10	79	70-130	11/15/2018 2000
Benzene	48	500	400		10	71	70-130	11/15/2018 2000
tert-Butyl formate (TBF)	ND	2500	650	N	10	26	70-130	11/15/2018 2000
1,2-Dichloroethane	ND	500	350		10	70	70-130	11/15/2018 2000
Diisopropyl ether (IPE)	ND	500	390		10	79	70-130	11/15/2018 2000
3,3-Dimethyl-1-butanol	ND	10000	6200	N	10	62	70-130	11/15/2018 2000
Ethanol	ND	50000	36000		10	72	70-130	11/15/2018 2000
Ethylbenzene	320	500	700		10	77	70-130	11/15/2018 2000
Ethyl-tert-butyl ether (ETBE)	ND	500	370		10	73	70-130	11/15/2018 2000
Methyl tertiary butyl ether (MTBE)	ND	500	380		10	76	70-130	11/15/2018 2000
Naphthalene	92	500	470		10	76	70-130	11/15/2018 2000
tert-butyl alcohol (TBA)	ND	10000	8200		10	82	70-130	11/15/2018 2000
Toluene	ND	500	380		10	76	70-130	11/15/2018 2000
Xylenes (total)	ND	1000	730		10	73	70-130	11/15/2018 2000

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK09060-014MD
Batch: 89612
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	230	10000	8600	+	10	84	30	70-130	20	11/15/2018 2026
tert-Amyl methyl ether (TAME)	ND	500	510	+	10	103	26	70-130	20	11/15/2018 2026
Benzene	48	500	500	+	10	90	21	70-130	20	11/15/2018 2026
tert-Butyl formate (TBF)	ND	2500	790	N	10	32	20	70-130	20	11/15/2018 2026
1,2-Dichloroethane	ND	500	450	+	10	90	25	70-130	20	11/15/2018 2026
Diisopropyl ether (IPE)	ND	500	520	+	10	103	27	70-130	20	11/15/2018 2026
3,3-Dimethyl-1-butanol	ND	10000	8200	+	10	82	28	70-130	20	11/15/2018 2026
Ethanol	ND	50000	45000	+	10	91	23	70-130	20	11/15/2018 2026
Ethylbenzene	320	500	770		10	91	9.5	70-130	20	11/15/2018 2026
Ethyl-tert-butyl ether (ETBE)	ND	500	480	+	10	96	27	70-130	20	11/15/2018 2026
Methyl tertiary butyl ether (MTBE)	ND	500	490	+	10	98	25	70-130	20	11/15/2018 2026
Naphthalene	92	500	580	+	10	98	21	70-130	20	11/15/2018 2026
tert-butyl alcohol (TBA)	ND	10000	11000	+	10	107	26	70-130	20	11/15/2018 2026
Toluene	ND	500	480	+	10	96	23	70-130	20	11/15/2018 2026
Xylenes (total)	ND	1000	910	+	10	91	22	70-130	20	11/15/2018 2026

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MB

Sample ID: TQ89466-001
Batch: 89466
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/14/2018 113

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	11/14/2018 1634

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		93	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - LCS

Sample ID: TQ89466-002
Batch: 89466
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/14/2018 113

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.22		1	87	60-140	11/14/2018 1644

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		90	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MS

Sample ID: TK09060-009MS
Batch: 89466
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/14/2018 113

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.22		1	87	60-140	11/14/2018 2040

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MSD

Sample ID: TK09060-009MD
Batch: 89466
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/14/2018 113

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.23		1	95	6.3	60-140	20	11/14/2018 2051

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		91	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MB

Sample ID: TQ89676-001
Batch: 89676
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/15/2018 1756

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	11/15/2018 2052

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		96	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - LCS

Sample ID: TQ89676-002
Batch: 89676
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 11/15/2018 1756

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	90	60-140	11/15/2018 2103

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		98	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody

and

Miscellaneous Documents

SHEALY

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 90180

Client: BLE
Report to Contact: Trevor Benton
Telephone No. / E-mail: 864-346-8208 trevor.benton@blecorp.com
Quote No.:
Address: 6004 Ponders Court
Sampler's Signature: x [signature]
City: Greenville State: SC Zip Code: 29615
Printed Name: Peter J. Wylle
Project Name: Former Ryder Truck Terminal
Project No.: UST 11929
P.O. No.:
Analysis (Attach list if more space is needed)
Page 1 of 2

TK09060

UJO

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Containers	Aqueous	Solid	Non-Aqueous	Unpres.	NaHSO4	HNO3	HCl	NaOH	Na2S2O3	BTEX NM 8260B	1,2-DCA 8260B	8 Oxys 8260B	EDB 8011	Remarks / Cooler I.D.
11929 - MW01	11/7/18	1632	6	X						6			X	X	X	X	
MW02	11/8/18	1306															Odor, heavy sheen
MW02D	11/8/18	1212															
MW03R	11/7/18	1533															Odor, heavy sheen
MW03R Dup	11/7/18	1535															Odor, heavy sheen
MW04	11/8/18	1425															Odor, heavy sheen
MW05	11/7/18	1600															
MW08	11/8/18	1024															
↓ MW09	11/7/18	1444	↓	↓						↓			↓	↓	↓	↓	
11929 - MW10	11/7/18	1522	6	X						6			X	X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)
Sample Disposal ☐ Return to Client ☒ Disposal by Lab
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by Peter J Wylle	11/9/18	1027	1. Received by [signature]	11/9/18	1027
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by [signature]	11/9/18	1454	4. Laboratory received by [signature]	11-9-18	1454

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 4.9 °C [initials]

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 90181

Client: BLE
Report to Contact: Trevor Benton
Telephone No. / E-mail:
Quote No.
Address: 6004 Ponders Court
Sampler's Signature: x
Analysis (Attach list if more space is needed)
Page 2 of 2
City: Greenville State: SC Zip Code: 29615
Printed Name: Peter J. Wylie
Project Name: Former Ryder Truck Terminal
Project No.: UST 11929
P.O. No.:

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# Grab / # Composite	Air/Vapor	Matrix: Solid	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	BTEX N.M. 8260B	1,2-DCA 8260B	8 Oxys 8260B	EDB 8011
11929-MW11	11/8/18	946	G	X						6			X	X	X	X
MW12	11/7/18	1453														
MW13	11/8/18	1400														
MW14	11/7/18	1719														
11929-MW16	11/7/18	1636														
FB-1	11/7/18	1415														
FB-2	11/8/18	730														X
TB-1	Lab	Lab	G	X						6			X	X	X	

TK09060
LO
Remarks / Cooler I.D.

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☒ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

		Date	Time
1. Relinquished by	Peter J. Wylie	11/9/18	1027
2. Relinquished by		Date	Time
3. Relinquished by		Date	Time
4. Relinquished by	Matthew P	Date 11/9/18	Time 1454

		Date	Time
1. Received by	Matthew P	11/9/18	1027
2. Received by		Date	Time
3. Received by		Date	Time
4. Laboratory received by		Date 11-9-18	Time 1454

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp. 4.9 °C TD

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: ME2018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: EC 11/16/18 Lot #: TK09061

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: _____ Chlorine Strip ID: _____ Tested by: _____

Original temperature upon receipt / Derived (Corrected) temperature upon receipt: %Solid Snap-Cup ID: _____

4.9 / 4.4 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☐ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # _____

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # _____.
Time of preservation _____. If more than one preservative is needed, please note in the comments below.

Sample(s) _____ _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ _____ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SR barcode labels applied by: _____ Date: 11-11-18

Comments:

APPENDIX D

CONTRACTOR CHECKLIST

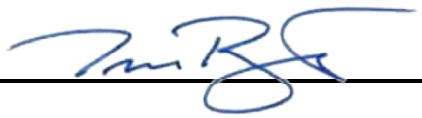
Contractor Checklist

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

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

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			✓
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)			✓
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)			✓
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)			✓
48	Have the well completion logs, DHEC Form 2099, and DHEC 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?

Project Verifier (signature) 

(print name) Trevor J. Benton,P.G.

Date 12/20/2018

dhec
Healthy People. Healthy Communities.

JAN 30 2019

UST 43 Geol DOCKETING

WHEELER PROPERTIES LLC
1341 RUTHERFORD RD
GREENVILLE SC 29609

Re: **Request for Property Access**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929
Release Reported February 25, 1997
Greenville County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) documented a release from the UST system at the referenced site on February 25, 1997.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary to determine current extent of the petroleum plume. For this site, the required action will be funded by the State Underground Petroleum Environmental Response Bank (SUPERB) Account. The UST Management Division is requesting your permission for the contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached Permission form and return it to my attention within 15 days from your date of receipt.**

If you have any questions, please contact me by phone 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 & Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

enc: Permission Form
cc: Technical file (w/enc)

State Lead Option
Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit # 11929		
Facility Name: Former Ryder Terminal		
Facility Address: 10 Woods Lake Dr., Greenville, SC		
Facility Phone Number:		
Is facility within city limits? (check yes/no)	☐ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:		
Does public water/sewer utility service this facility?	☐ **Yes**	☐ **No**
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:		
Name:	**Phone Number:**	
Were USTs previously removed from the ground at this facility?	☐ **Yes**	☐ **No**
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):		
Name:	**Phone Number:**	
Is the facility currently leased to someone?	☐ **Yes**	☐ **No**
*If yes, notify them of the pending work scope, and please provide their name/contact number:		
Name:	**Phone Number:**	

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of Property Owner (Print):	
Signature of Property Owner or authorized representative:	**Date**
Affiliation (if applicable)	
Signature of Witness	**Date**

Contact Info		
Phone Numbers:	**Home:**	**Cell:**
Email Address:		

11929

dhec
Healthy People. Healthy Communities.

FEB 08 2019

UST
44
DATING

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Site Specific Work Plan Requests
Groundwater Sampling Contract
Solicitation #IFB-5400012906

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.1, submission of Site Specific Work Plans (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 15 business days to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. Please contact me with the sampling schedule before commencing work at these facilities. A weekly update for each site is required to be submitted via email to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely,

Robert A. Dunn, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

Enc: Site Information Packages

Cc: Trey Carter, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ Memo)
Technical File (w/o Enc)

S.C. Department of Health and Environmental Control

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-898-2544

MEMORANDUM

TO: Midlands Environmental Consultants

FROM: A. Looper

RE: **Site Specific Work Plan Request**

Facility Name: Former Ryder Terminal

Permit Number: 11929

County: Greenville

Work To Be Completed: Sample all monitoring wells associated with this release. Analyze for BTEXNMDCA, 8 oxys, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling. ROE has been requested.

Total Number of Monitoring Well Samples: 19

Analysis Being Requested: 8260B, 8011

Total Number of Water Supply Well Samples: N/A

Analysis Being Requested: N/A

Midlands
Environmental
Consultants, Inc.

February 14, 2019

Mr. Robert Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
Former Ryder Terminal
Greenville, South Carolina
SCDHEC Site ID Number 11929
MECI Project Number 19-6820
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

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

On February 12, 2019, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

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

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

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

Facility Name: Former Ryder Terminal UST Permit #: 11929
Facility Address: 10 Woods Lake Drive, Greenville, SC 29607
Responsible Party: Lloyd Auten Phone: 864-859-7800
RP Address: 4925 Coach Hill Drive, Greenville, SC 29615
Property Owner (if different): Wheeler Properties LLC
Property Owner Address: 1341 Rutherford Road, Greenville, SC 29609
Current Use of Property: Aiken Brothers

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 _____

Drinking Water Supply Wells:

☐ BTEXNMDCA (524.2) ☐ Mecury (200.8 245.1 or 245.2) ☐ EDB (504.1)
☐ Oxygenates & Ethanol (8260B) ☐ RCRA Metals (200.8)

Soil:

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

Air:

☐ BTEXN

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

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

Field Screening Methodology

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

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

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

# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

_____

_____

UST Permit #: 11929 Facility Name: Former Ryder Terminal

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 2/14/2019 Field Work Completion: 3/14/2019

Report Submittal: 4/14/2019 # of Copies Provided to Property Owners: 0

Aquifer Characterization

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

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: 100.0 Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

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

-During the initial site visit, all monitoring well MW-7 was not located. If this well is located during sampling activities, it will be sampled accordingly.

-A total of twenty-one bolts and one well lid are needed to properly secure wells at the subject site.

-MECI will only purge wells with water outside of the screened interval.

-Monitoring well samples will be analyzed for BTEXNM, 1,2-DCA, 8-OXY's (8260B), and EDB (8011).

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

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

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

None Other variations from ACQAP. Please describe below.

Attachments

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

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	

3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
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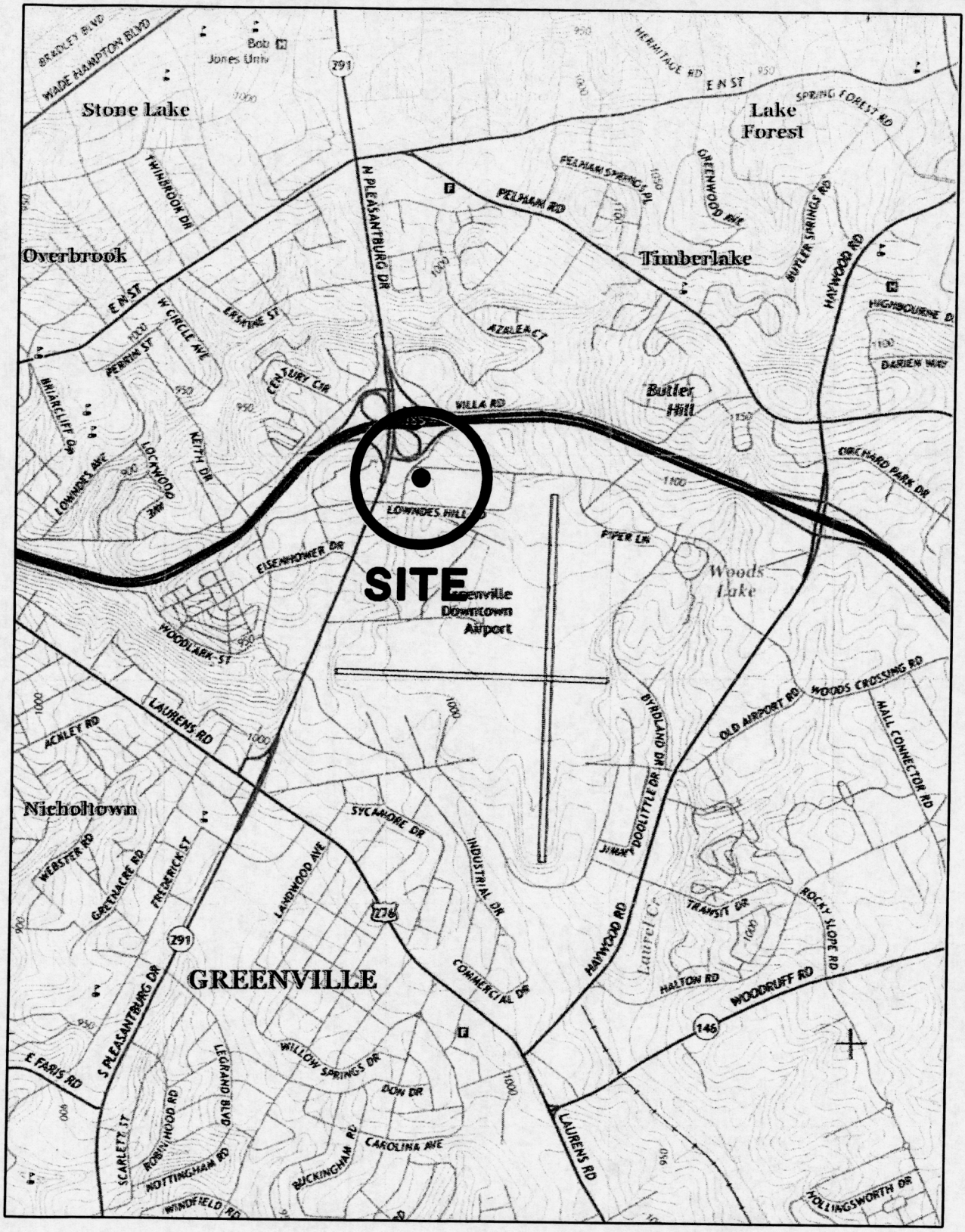
ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO NUMBER 4600559329

Facility Name: Former Ryder Terminal
UST Permit #: 11929 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan***				
A1. Site Specific Work Plan	1	each	$1.00	$1.00
B1. Tax Map		each	$1.00	$0.00
C1. QAPP Appendix B		each	$1.00	$0.00
2. A1. Receptor Survey		each	$1.00	$0.00
4. **Mob/Demob**				
B1. Personnel	1	each	$1.00	$1.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**				
A1. Groundwater Purge	1	per well	$36.50	$36.50
B1. Air or Vapors		samples	$1.00	$0.00
C1. Water Supply		samples	$18.00	$0.00
D1. Groundwater No Purge or Duplicate	18	per well	$27.50	$495.00
E1. Gauge Well only		per well	$1.00	$0.00
F1. Sample Below Product		per well	$1.00	$0.00
G1. Pasive Diffusion Bag		each	$20.00	$0.00
H1. Field Blank	1	each	$1.00	$1.00
17. **Disposal* (gallons or tons)**				
AA. Disposal/Water	100	gallons	$1.00	$100.00
BB. Free Product		gallons	$0.05	$0.00
Note: Rate includes costs or rental of suitable container(s)				
23. D. Site Reconnaissance	1	each	$1.00	$1.00
18. **Miscellaneous**				
GW Contour Map		each	$25.00	$0.00
Isopleth Map		each	$25.00	$0.00
High-Strength Well Pad Replacement		each	$75.00	$0.00
Data Table		each	$50.00	$0.00
Low Flow Sampling		per well	$55.00	$0.00
25. **Well Repair**				
B1. Repair 2x2 MW Pad		each	$50.00	$0.00
C1. Repair 4x4 MW Pad		each	$50.00	$0.00
D1. Replace Well Vault		each	$50.00	$0.00
E. Replace well cover	1	each	$25.00	$25.00
F1. Replace well cover bolts	21	each	$2.60	$54.60
G. Replace locking well cap & lock		each	$15.00	$0.00
K1. Replace Missing Well ID Plate		each	$10.00	$0.00
TOTAL				$714.10

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

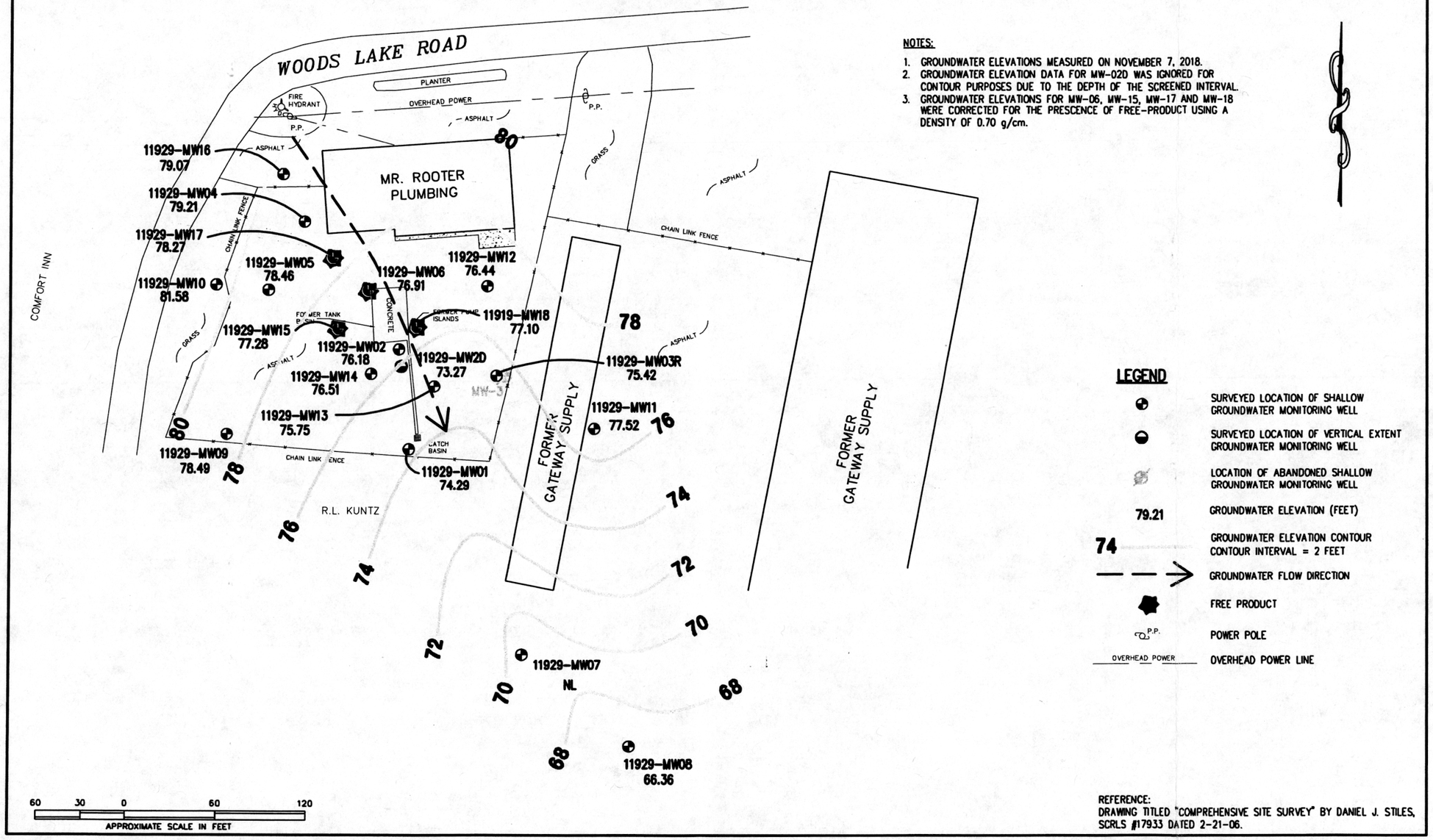


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 8-6-18	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED: TJB	CAD: FORMERRTT-24SLM	6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
APPROVED:	JOB NO: J18-1010-24		1



NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON NOVEMBER 7, 2018.
2. GROUNDWATER ELEVATION DATA FOR MW-02D WAS IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. GROUNDWATER ELEVATIONS FOR MW-06, MW-15, MW-17 AND MW-18 WERE CORRECTED FOR THE PRESCENCE OF FREE-PRODUCT USING A DENSITY OF 0.70 g/cm.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 79.21 — GROUNDWATER ELEVATION (FEET)
- 74 — GROUNDWATER ELEVATION CONTOUR, CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- FREE PRODUCT
- P.P. — POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY: ACE	DATE: 11-29-18	REVISIONS			BUNNELL LAMMONS ENGINEERING 6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430	GROUNDWATER ELEVATION CONTOUR MAP – NOVEMBER 2018 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 10 WOODS LAKE ROAD GREENVILLE, SOUTH CAROLINA	FIGURE 2
CHECKED BY: TJB	FILE: FORMERRTT-24FWTM	No.	DESCRIPTION	BY			
APPROVED BY:	JOB NO: J18-1010-24						

dhec
Healthy People. Healthy Communities.

MAR 0 5 2019

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Notice to Proceed-Site Specific Work Plan Approval
Groundwater Sampling Contract
Solicitation #IFB-5400012906, PO #4600686184
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929; MECI CA #58915; Pace CA #58916
Greenville County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis 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.

Services at the site are to be performed on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All Investigation-Derived Waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within three weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed. The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Robert Dunn, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0631 or via e-mail at Looperam@dhec.sc.gov. If you have any contract specific questions, please contact Robert Dunn by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: Angela Baioni, Pace Analytical Services, 9800 Kincey Ave, Ste 100, Huntersville, NC, 28078 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 58915

Facility: 11929 FORMER RYDER TERMINAL
LOOPERAM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$1.000	1.00
04 MOB/DEMOB						
		B1	PERSONNEL	1.0000	$1.000	1.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	1.0000	$36.500	36.50
		D1	GROUNDWATER NO PURGE/DUPLICATE	18.0000	$27.500	495.00
		H1	FIELD BLANK	1.0000	$1.000	1.00
17 DISPOSAL						
		AA	WASTEWATER	100.0000	$1.000	100.00
23 EFR						
		D	SITE RECONNAISSANCE	1.0000	$1.000	1.00
25 WELL REPAIR						
		E	REPLACE WELL COVER & GASKET	1.0000	$25.000	25.00
		F1	REPLACE WELL COVER BOLTS	21.0000	$2.600	54.60
				Total Amount		715.10

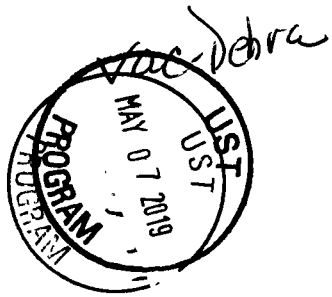
Approved Cost Agreement 58916

Facility: 11929 FORMER RYDER TERMINAL
LOOPERAM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	21.0000	$21.000	441.00
		F1 EDB BY 8011	20.0000	$18.000	360.00
			Total Amount		801.00

Midlands Environmental Consultants, Inc.

May 2, 2019



Mr. Robert A. Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling
Former Ryder Terminal
10 Woods Lake Dr.
Greenville, South Carolina
SCDHEC Site ID# 11929, CA # 58915
MECI Project Number 19-6820
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

PROJECT INFORMATION

The subject site (Former Ryder Terminal) is located at 10 Woods Lake Dr., Greenville, Greenville County, South Carolina. The site currently occupied by Aiken Bros. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	20,000 Gal. Diesel	Abandoned	Removed (5/1/1989)
2	5,000 Gal. Diesel	Abandoned	Removed (5/1/1989)
3	6,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)
4	5,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)
5	550 Gal. Heating Oil	Abandoned	Removed (5/1/1989)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in February of 1997 and confirmed in March of 1997. The release is currently rated a Class 2BA.

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

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

MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On April 25, 2019 MECI personnel collected samples from sixteen (16) monitoring wells at the subject site. Three (3) monitoring wells (MW-6, MW-15 & MW-17) were gauged and determined to contain measurable free phase product. Based on the request by SCDHEC personnel, only monitoring wells that were not bracketing the screen were to be purged prior to sample collection. Fifteen (15) monitoring well was purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

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

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

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-2D	X						X	X	X	X			
MW-3R	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-6			X										
MW-7	X						X	X	X	X			

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

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
MW-11	X						X	X	X	X			
MW-12		X					X	X	X	X			
MW-13	X						X	X	X	X			
MW-14	X						X	X	X	X			
MW-15			X										
MW-16	X						X	X	X	X			
MW-17			X										
MW-18	X						X	X	X	X			
DUP(MW-14)							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X	X	X	X			

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

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 180.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jordan W. Floyd
Staff Hydrogeologist

Jeff D. Coleman
Senior Scientist

Attachments:

Contractor Checklist

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

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

Site Activity Summary

UST Permit #: 11929
Facility Name: Former Ryder Terminal
County: Greenville
Field Personnel: C. Phillips; W. Morris

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	4/25/19	14:45	21-31	***	20.76	***	2.80	10.50	No Odor; Stick-up 2.30'
MW-2	Y	4/25/19	15:00	20-30	***	17.90	***	1.76	10.00	No Odor
MW-2D	Y	4/25/19	13:55	50-55	***	21.03	***	1.56	28.00	No Odor
MW-3R	Y	4/25/19	14:30	22-32	***	20.09	***	Sheen	10.00	Odor; Sheen; Added 1 bolt
MW-4	Y	4/25/19	12:00	20-30	***	18.20	***	Sheen	10.00	Odor; Sheen
MW-5	Y	4/25/19	12:25	19-29	***	17.30	***	1.57	10.00	No Odor; Added 1 bolt
MW-6	N	4/25/19	***	19-29	19.00	19.18	0.18	***	***	Product detected; added 1 bolt
MW-7	Y	4/25/19	11:00	23-33	***	22.38	***	3.03	9.00	No Odor; Added 1 bolt
MW-8	Y	4/25/19	10:45	23-33	***	18.96	***	2.39	11.50	No Odor
MW-9	Y	4/25/19	12:55	20-30	***	17.29	***	1.63	10.50	No Odor; Added lid and 1 bolt
MW-10	Y	4/25/19	12:40	20-30	***	17.27	***	1.78	10.50	No Odor
MW-11	Y	4/25/19	11:15	20-30	***	18.66	***	3.15	9.50	No Odor
MW-12	Y	4/25/19	14:00	20-30	***	20.02	***	2.90	***	No Odor
MW-13	Y	4/25/19	14:15	23-33	***	17.89	***	2.63	12.50	No Odor; Added 1 bolt
MW-14	Y	4/25/19	13:25	22-32	***	18.08	***	3.02	11.50	No Odor; Duplicate 1
									153.50	**TOTAL GALLONS PURGED**

Site Activity Summary

UST Permit #: 11929
Facility Name: Former Ryder Terminal
County: Greenville
Field Personnel: C. Phillips; W. Morris

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-15	N	4/25/19	***	23-33	17.11	17.13	0.02	***	***	Product detected
MW-16	Y	4/25/19	11:40	24-34	***	17.58	***	1.59	13.50	No Odor; added 1 bolt
MW-17	N	4/25/19	***	25-35	18.00	18.25	0.25	***	***	Product detected
MW-18	Y	4/25/19	15:17	25-35	***	18.79	***	Sheen	13.50	Odor; sheen
DUP	***	4/25/19	13:25	***	***	***	***	***	***	Duplicate of MW-14
Field Blank	***	4/25/19	15:25	***	***	***	***	***	***	Field Blank
Trip Blank	***	4/25/19	15:26	***	***	***	***	***	***	Trip Blank
									27.00	**TOTAL GALLONS PURGED**

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: CP, WM

Sampling Date(s): 4/25/19

Sampling Case#: 2

Job Name: Ryder Terminal

Job Number: 19-6820

Calibration Data for:

Calibration Successful? (Yes) or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW 1	Initial	14:35	6.46	116.5	18.1	2.80	57.09				21-31	12.54			
	1st	14:37	6.59	119.2	18.4	2.63	74.15								
	2nd	14:39	6.31	114.8	18.5	2.59	102.9								
	3rd	14:41	6.28	111.1	18.7	2.53	157.3		20.76				2.04	10.5	No Odor
	4th	14:43	6.24	108.3	18.8	2.47	170.1		2.30						
	5th	14:45	6.20	104.4	18.9	2.41	139.4		18.46				10.22		
	Sampling														Stickup
MW 2	Initial	14:50	6.09	103.5	19.3	1.76	63.19				20-30	12.10			
	1st	14:52	5.97	96.2	19.5	1.70	95.81								
	2nd	14:54	5.94	92.7	19.6	1.68	135.6								
	3rd	14:56	5.90	88.6	19.7	1.62	163.4		17.90				1.97	10	No Odor
	4th	14:58	5.85	85.1	19.8	1.57	140.7								
	5th	15:00	5.82	82.9	19.9	1.50	82.54						9.86		
	Sampling														[redacted]
MW 2D	Initial	13:30	7.02	65.7	20.9	1.56	30.15				50-55	33.97			
	1st	13:35	6.94	60.1	21.1	1.49	92.05								
	2nd	13:40	6.90	58.7	21.2	1.42	173.2								
	3rd	13:45	6.87	56.2	21.3	1.38	157.3		21.03				5.54	28	No Odor
	4th	13:50	6.84	53.9	21.5	1.30	110.1								
	5th	13:55	6.70	50.3	21.6	1.09	97.04						27.69		
	Sampling														
MW 3R	Initial	14:10	Screen								22-32	11.91			
	1st	14:22	Screen												
	2nd	14:24	Screen												
	3rd	14:26	Screen												
	4th	14:28	Screen						20.09				1.94	10	Strong Odor
	5th	14:30	Screen												Sheen
	Sampling														Added 1 bot
													9.71		

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: CP, WM

Sampling Date(s): 4/25/19

Sampling Case#: 2

Job Name: Ryder Terminal

Job Number: 19-6820

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): Initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW 4	Initial	11:50	Sheen						18.20		20-30	11.80	1.92	10	Odor
	1st	11:52	Sheen												Sheen
	2nd	11:54	Sheen												
	3rd	11:56	Sheen												
	4th	11:58	Sheen												
	5th	12:00	Sheen										9.62		
	Sampling														
MW 5	Initial	17:15	6.42	68.5	20.9	1.57	67.01		17.30		19-29	11.70	1.91	10	No Odor 1lb of added
	1st	17:17	6.36	64.9	21.2	1.51	85.14								
	2nd	17:19	6.32	62.1	21.3	1.48	113.9								
	3rd	17:21	6.29	59.4	21.5	1.45	139.2								
	4th	17:23	6.25	57.5	21.6	1.42	121.1								
	5th	17:09	6.22	51.2	21.7	1.37	105.9						9.54		
	Sampling														
MW 6	Initial							19.00	19.18		19-29	—	—	—	1lb of added
	1st														
	2nd			0.18' Product											
	3rd														
	4th			No Sample											
	5th														
	Sampling														
MW 7	Initial	10:50	6.44	75.7	19.5	3.03	76.52		22.38		23-33	10.62	1.73	9	No
	1st	10:52	6.34	70.1	19.7	2.91	114.2								
	2nd	10:54	6.31	67.7	19.8	2.85	152.1								
	3rd	10:56	6.27	62.5	20.0	2.79	163.9								
	4th	10:58	6.24	59.4	20.1	2.74	149.3						8.66		Odor Added 1lb of
	5th	11:00	6.20	54.7	20.2	2.71	120.5								
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: CP, WM

Sampling Date(s): 4/25/19

Sampling Case#: 2

Job Name: Ryder Terminal

Job Number: 19-6870

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW 8	Initial	10:30	6.65	54.6	21.1	2.39	141.02		18.96		23-33	14.04	2.29	11.5	No Odor
	1st	10:33	6.63	50.2	21.12	2.28	75.37						11.44		
	2nd	10:36	6.59	48.3	21.4	2.23	104.3								
	3rd	10:39	6.54	45.9	21.5	2.19	157.4								
	4th	10:42	6.49	45.2	21.6	2.17	130.5								
	5th	10:45	6.40	40.1	21.7	2.15	111.9								
	Sampling														
MW 9	Initial	12:45	6.19	67.5	21.0	1.63	69.14		17.29		20-30	12.71	2.07	10.5	No Odor
	1st	12:47	6.14	64.7	21.2	1.59	124.1						10.36		
	2nd	12:49	6.07	61.9	21.3	1.54	157.9								
	3rd	12:51	6.02	59.4	21.4	1.51	140.3								
	4th	12:53	5.97	57.6	21.6	1.48	79.57								
	5th	12:55	5.96	56.5	21.7	1.45	50.61								
	Sampling														
MW 10	Initial	11:30	6.12	62.4	20.7	1.78	76.35		17.27		20-30	12.73	2.07	10.5	No Odor Added Lid Vault
	1st	11:32	6.10	60.1	20.9	1.74	113.7						10.37		
	2nd	11:34	6.07	59.5	21.2	1.69	162.1								
	3rd	11:36	6.02	54.2	21.3	1.64	207.7								
	4th	11:38	5.99	52.1	21.4	1.61	141.3								
	5th	11:40	5.97	49.6	21.5	1.58	102.9								
	Sampling														
MW 11	Initial	11:05	6.25	66.3	20.6	3.15	63.02		18.66		20-30	11.34	1.85	9.5	No Odor
	1st	11:07	6.19	61.2	20.8	3.12	96.23						9.24		
	2nd	11:09	6.12	58.4	20.9	3.08	157.6								
	3rd	11:11	6.09	56.1	21.1	3.04	214.2								
	4th	11:13	6.07	53.9	21.2	3.01	172.4								
	5th	11:15	6.06	50.2	21.3	2.97	131.9								
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: CP, WM

Sampling Date(s): 4/25/19

Sampling Case#: 2

Job Name: Ryder Terminal

Job Number: 19-6820

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW 12	Initial	14:00	6.44	172.0	21.0	2.90	50.39		20.02		20-30	—	—	—	No Purge
	1st												—		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW 13	Initial	14:57	6.49	178.7	20.5	3.63	67.59		17.89		23-33	15.11	2.46	12.5	No Odor
	1st	14:03	6.38	116.1	20.7	2.58	105.7								
	2nd	14:07	6.32	114.9	20.8	2.54	149.1								
	3rd	14:11	6.27	110.3	20.9	2.51	173.5								
	4th	14:13	6.24	107.4	21.0	2.47	150.3								
	5th	14:15	6.20	102.7	21.2	2.43	122.5						17.31		
	Sampling														
MW 14	Initial	13:15	6.05	63.5	20.3	3.02	79.14		18.08		22-32	13.92	2.27	11.5	No Odor Dup1
	1st	13:17	5.97	60.1	20.5	2.97	136.7								
	2nd	13:19	5.84	57.7	20.6	2.94	215.8								
	3rd	13:21	5.82	56.4	20.7	2.90	251.2								
	4th	13:23	5.79	55.2	20.8	2.89	196.4								
	5th	13:25	5.75	54.9	20.9	2.88	151.7						11.34		
	Sampling														
MW 15	Initial		0.92' Product No Sample					17.11	17.13		23-33	—	—	—	NS
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: CP, WM

Sampling Date(s): 4/25/19

Sampling Case#: 7

Job Name: Ryder Terminal

Job Number: 19-6870

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW 16	Initial	11:25	6.32	65.1	21.6	1.59	73.91								
	1st	11:28	6.28	62.9	21.8	1.63	114.2								
	2nd	11:31	6.24	58.3	21.9	1.55	157.0								
	3rd	11:34	6.21	54.0	21.9	1.54	132.4								
	4th	11:37	6.18	52.7	22.0	1.49	110.3								
	5th	11:40	6.17	50.3	22.1	1.46	80.56		17.58		MW 24-34	16.42	2.68	13.5	No Odor
	Sampling												13.38		1 bolt added
MW 17	Initial														
	1st														
	2nd		0.75' Product No Sample												
	3rd														
	4th														
	5th							18.00			25-35				
	Sampling								18.25						
MW 18	Initial	15:05	Sheen												
	1st	15:08	Sheen												
	2nd	15:09	Sheen												
	3rd	15:11	Sheen												
	4th	15:14	Sheen												
	5th	15:17	Sheen												
	Sampling								18.79		25-35	16.21	2.64	13.5	Odor Sheen
													13.21		
Dup	Initial														
	1st														
	2nd		MW-14	13:25											
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

18.79

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: CP, WM

Sampling Date(s): 4/25/19

Sampling Case#:

Job Name: Ryder Terminal

Job Number: 19-6820

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH:	Yes	No
Conductivity:	Yes	No
Dissolved Oxygen:	Yes	No
Turbidity:	Conductivity Calibrated Every 3 Months by QA Manager	

Well No.	Purge Volume	Sample Time	pH(I)	cond(I)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
Blanks	Initial														
	1st	FB	15:29												
	2nd														
	3rd	TB	15:26												
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Cases	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: [illegible]

Report To: [illegible]

Email To: [illegible]@dhec.sc.gov

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Kidder Terminal

State: SC / County/City: Greenville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:

Site/Facility ID #: UST 11929

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): [illegible]

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal:
[ ] Dispose as appropriate [ ] Return
[ ] Archive: ____________
[ ] Hold: ____________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ____________

Container Preservative Type **

Lab Project Manager:

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: BTEX+Naph (8260B)	Analyses: EDB (8011)	Lab Sample # / Comments
MW-1	GW	G	4/25/19	14:15				6	X	X	No Odor
MW-2	〃	〃	〃	15:00				〃	〃	〃	No Odor
MW-2D	〃	〃	〃	[illegible]:55				〃	〃	〃	No Odor
MW-3R	〃	〃	〃	14:30				〃	〃	〃	Strong Odor Sheen
MW-4	〃	〃	〃	7:00				〃	〃	〃	Odor Sheen
MW-5	GW	G	4/25/19	[illegible]:25				6	X	X	No Odor
MW-6											No Sample
MW-7	GW	G	[illegible]	11:00				6	X	X	No Odor
MW-8	GW	G	[illegible]	10:45				6	X	X	No Odor
MW-9	GW	G	[illegible]	[illegible]:55				6	X	X	No Odor

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact   Y N NA
Custody Signatures Present     Y N NA
Collector Signature Present    Y N NA
Bottles Intact                 Y N NA
Correct Bottles                Y N NA
Sufficient Volume              Y N NA
Samples Received on Ice        Y N NA
VOA - Headspace Acceptable     Y N NA
USDA Regulated Soils           Y N NA
Samples in Holding Time        Y N NA
Residual Chlorine Present      Y N NA
Cl Strips: ____________
Sample pH Acceptable           Y N NA
pH Strips: ____________
Sulfide Present                Y N NA
Lead Acetate Strips: ____________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2351101

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____________
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / DHEC	4/26/19 8:03	[signature] Pace	4-26-19 803

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ______ of: ______

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC
Billing Information:

Address: [illegible] Bull Street Columbia SC 29201

Report To: [illegible]
Email To: [illegible]@dhec.sc.gov

Copy To:
Site Collection Info/Address:

Customer Project Name/Number: [illegible] Terminal
State: SC / County/City: Greenville
Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:
Site/Facility ID #: UST 11979
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): [illegible]
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:

Collected By (signature): [illegible]
Turnaround Date Required:
Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: ______

Container Preservative Type **

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

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:
- Custody Seals Present/Intact Y N NA
- Custody Signatures Present Y N NA
- Collector Signature Present Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VOA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- Cl Strips: ______
- Sample pH Acceptable Y N NA
- pH Strips: ______
- Sulfide Present Y N NA
- Lead Acetate Strips: ______

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

Analyses: BTEX/Naph/EDC/Oxygenates 8260B; EDB 8011

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEX/Naph/EDC/Oxygenates 8260B	EDB 8011	LAB USE ONLY: Lab Sample # / Comments
MW-10	GW	G	4/25/19	[illegible]:40				6	X	X	No Odor
MW-11	|	|	|	11:15				|	|	|	No Odor
MW-12	|	|	|	4:00				|	|	|	No Odor
MW-13	|	|	|	11:15				|	|	|	No Odor
MW-14	GW	G	4/25/19	[illegible]				6	X	X	No Odor
MW-15											No Sample
MW-16	GW	G	4/25/19	11:40				6	X	X	No Odor
MW-17											No Sample
MW-18	GW	G	4/25/19	[illegible]				6	X	X	Odor, Sheen
[illegible]	GW	G	4/25/19	[illegible]				6	X	X	No Odor

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #: 2351102
Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ______
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[illegible] / DHEC	4/26/19 8:03	[illegible] Pace	4-26-19 803

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: ______ of: ______

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: ... Bull Street Columbia SC 29201

Report To: R. Dunn

Email To: dunnr@dhec.sc.gov

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Kyles Terminal

State: SC / County/City: Greenville

Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:

Site/Facility ID #: UST 11979

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Phillips

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: ____

Container Preservative Type **

Lab Project Manager:

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

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

Analyses: BTEXNMIZ DCA Oxys 8260B; EDB 8011

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEXNMIZ DCA Oxys 8260B	EDB 8011	Lab Sample # / Comments
Field Blank	GW	G	4/25/19	10:25				6	X	X	FB
Trip Blank	GW	G	4/25/19	9:26				2	X		TB

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: ____	
Sample pH Acceptable	Y N NA
pH Strips: ____	
Sulfide Present	Y N NA
Lead Acetate Strips: ____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2351103

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] DHEC	4/26/19 8:03	[signature] Pace	4-26-19 803

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Midlands Environmental Consultants, Inc.

May 2, 2019

Re: Treatment of Purge Water
Former Ryder Terminal
Greenville, South Carolina
SCDHEC Site ID Number 11929
MECI Project Number 19-6820

To Whom It May Concern;

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

Applicability:

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

Conditions:

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

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

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

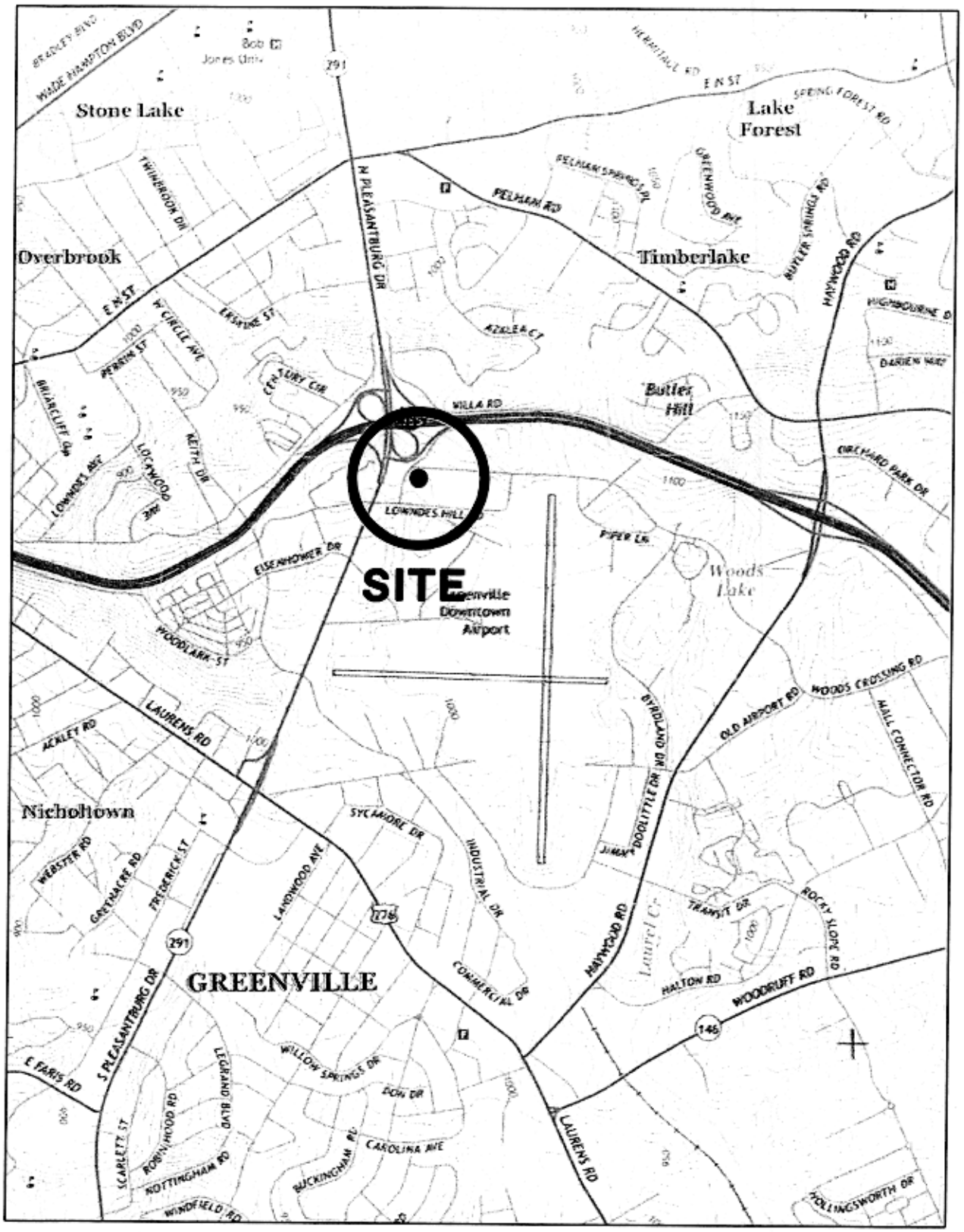
A total of 180.50 gallons were treated on April 26, 2019 at the referenced site.

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

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

Sincerely,
Midlands Environmental Consultants, Inc.

Jordan W. Floyd
Staff Hydrogeologist

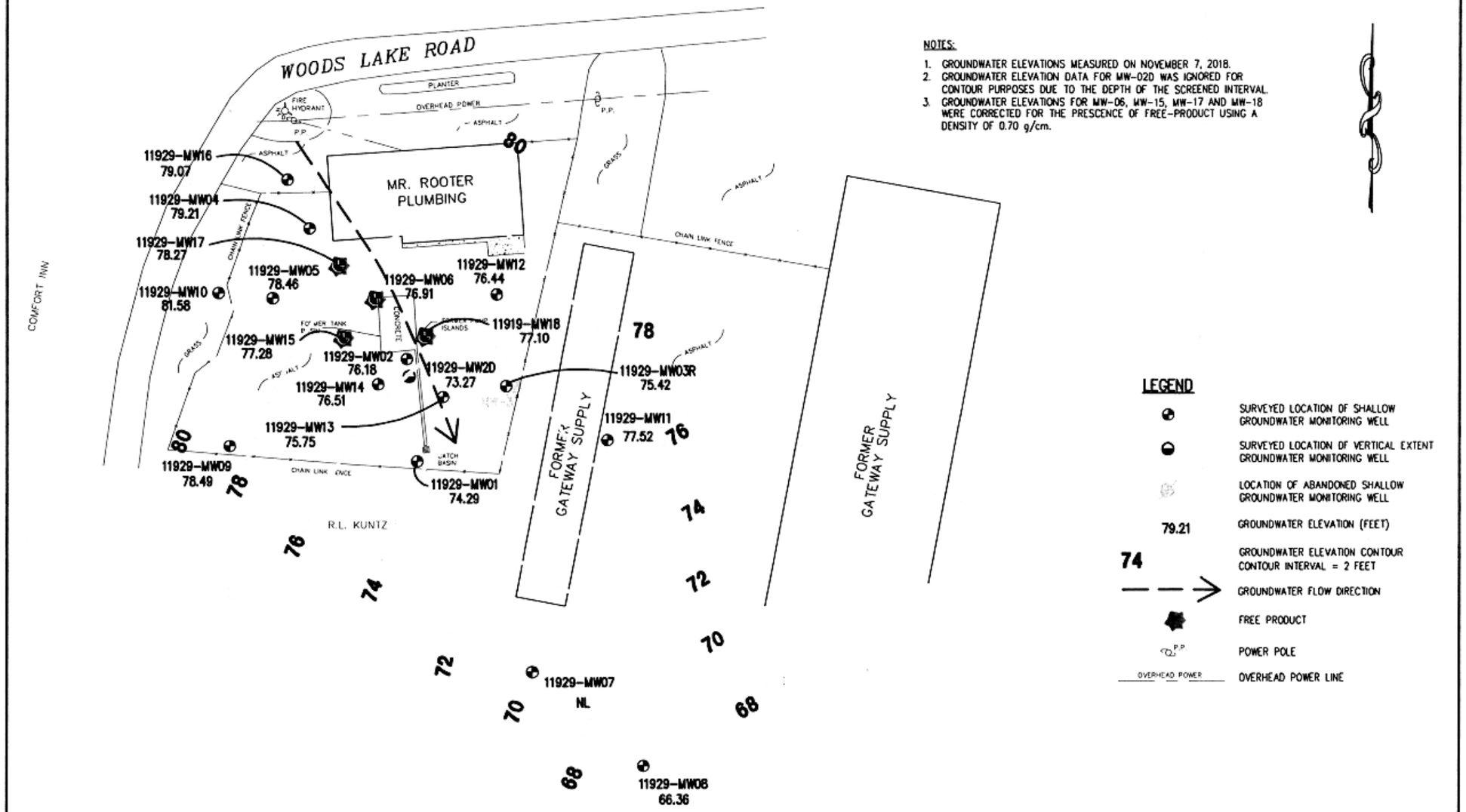


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 8-6-18	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED: TJB	CAD: FORMERRTT-24SLM	6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1255 Fax: (864) 289-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
APPROVED:	JOB NO: J18-1010-24		1



NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON NOVEMBER 7, 2018.
2. GROUNDWATER ELEVATION DATA FOR MW-02D WAS IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. GROUNDWATER ELEVATIONS FOR MW-06, MW-15, MW-17 AND MW-18 WERE CORRECTED FOR THE PRESCENCE OF FREE-PRODUCT USING A DENSITY OF 0.70 g/cm.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 79.21 GROUNDWATER ELEVATION (FEET)
- 74 GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- FREE PRODUCT
- P.P. POWER POLE
- OVERHEAD POWER OVERHEAD POWER LINE

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY: ACE	DATE: 11-29-18	REVISIONS			BUNNELL LAMMONS ENGINEERING 6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430	GROUNDWATER ELEVATION CONTOUR MAP – NOVEMBER 2018 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 10 WOODS LAKE ROAD GREENVILLE, SOUTH CAROLINA	FIGURE 2
CHECKED BY: TJB	FILE: FORMERRTT-24FWTM	No.	DESCRIPTION	BY			
APPROVED BY:	JOB NO: J18-1010-24						

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

May 07, 2019

Robert Dunn
SCHDEC
2600 Bull St
Columbia, SC 29201

RE: Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Dear Robert Dunn:
Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Angela M. Baioni

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

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92427012001	MW-1	Water	04/25/19 14:45	04/26/19 08:03
92427012002	MW-2	Water	04/25/19 15:00	04/26/19 08:03
92427012003	MW-2D	Water	04/25/19 13:55	04/26/19 08:03
92427012004	MW-3R	Water	04/25/19 14:30	04/26/19 08:03
92427012005	MW-4	Water	04/25/19 12:00	04/26/19 08:03
92427012006	MW-5	Water	04/25/19 12:25	04/26/19 08:03
92427012007	MW-7	Water	04/25/19 11:00	04/26/19 08:03
92427012008	MW-8	Water	04/25/19 10:45	04/26/19 08:03
92427012009	MW-9	Water	04/25/19 12:55	04/26/19 08:03
92427012010	MW-10	Water	04/25/19 12:40	04/26/19 08:03
92427012011	MW-11	Water	04/25/19 11:15	04/26/19 08:03
92427012012	MW-12	Water	04/25/19 14:00	04/26/19 08:03
92427012013	MW-13	Water	04/25/19 14:15	04/26/19 08:03
92427012014	MW-14	Water	04/25/19 13:25	04/26/19 08:03
92427012015	MW-16	Water	04/25/19 11:40	04/26/19 08:03
92427012016	MW-18	Water	04/25/19 15:17	04/26/19 08:03
92427012017	DUP-1	Water	04/25/19 13:25	04/26/19 08:03
92427012018	Field Blank	Water	04/25/19 15:25	04/26/19 08:03
92427012019	Trip Blank	Water	04/25/19 15:26	04/26/19 08:03

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www.pacelabs.com

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

SAMPLE ANALYTE COUNT

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92427012001	**MW-1**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012002	**MW-2**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012003	**MW-2D**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012004	**MW-3R**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
92427012005	**MW-4**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92427012006	**MW-5**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012007	**MW-7**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
92427012008	**MW-8**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012009	**MW-9**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012010	**MW-10**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012011	**MW-11**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012012	**MW-12**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012013	**MW-13**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
92427012014	**MW-14**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012015	**MW-16**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012016	**MW-18**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012017	**DUP-1**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92427012018	**Field Blank**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012019	**Trip Blank**	EPA 8260B	DLK	20	PASI-C

Pace Analytical
www.pacelabs.com

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

SUMMARY OF DETECTION

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92427012001	**MW-1**					
EPA 8011	1,2-Dibromoethane (EDB)	0.049	ug/L	0.020	05/03/19 03:04	
92427012002	**MW-2**					
EPA 8011	1,2-Dibromoethane (EDB)	0.19	ug/L	0.019	05/03/19 03:22	
EPA 8260B	Benzene	21.0	ug/L	5.0	05/02/19 18:59	
EPA 8260B	Naphthalene	48.3	ug/L	5.0	05/02/19 18:59	
EPA 8260B	Xylene (Total)	24.4	ug/L	5.0	05/02/19 18:59	
EPA 8260B	o-Xylene	24.4	ug/L	5.0	05/02/19 18:59	
92427012004	**MW-3R**					
EPA 8011	1,2-Dibromoethane (EDB)	0.026	ug/L	0.020	05/03/19 03:59	
EPA 8260B	Benzene	6.4	ug/L	5.0	05/07/19 01:34	
EPA 8260B	Naphthalene	12.7	ug/L	5.0	05/07/19 01:34	
EPA 8260B	o-Xylene	2.6J	ug/L	5.0	05/07/19 01:34	
92427012005	**MW-4**					
EPA 8260B	Naphthalene	156	ug/L	5.0	05/05/19 17:00	
EPA 8260B	o-Xylene	3.0J	ug/L	5.0	05/05/19 17:00	
92427012006	**MW-5**					
EPA 8011	1,2-Dibromoethane (EDB)	0.12	ug/L	0.020	05/03/19 04:36	
92427012013	**MW-13**					
EPA 8260B	Benzene	24.5	ug/L	5.0	05/04/19 18:26	
EPA 8260B	Naphthalene	119	ug/L	5.0	05/04/19 18:26	
EPA 8260B	Xylene (Total)	53.6	ug/L	5.0	05/04/19 18:26	
EPA 8260B	m&p-Xylene	5.5J	ug/L	10.0	05/04/19 18:26	
EPA 8260B	o-Xylene	53.6	ug/L	5.0	05/04/19 18:26	
92427012014	**MW-14**					
EPA 8260B	tert-Amyl Alcohol	79.9J	ug/L	100	05/02/19 18:05	
EPA 8260B	Benzene	4.6J	ug/L	5.0	05/02/19 18:05	
EPA 8260B	Ethylbenzene	3.2J	ug/L	5.0	05/02/19 18:05	
92427012016	**MW-18**					
EPA 8011	1,2-Dibromoethane (EDB)	0.68	ug/L	0.019	05/05/19 04:16	
EPA 8260B	Benzene	29.2	ug/L	5.0	05/02/19 18:41	
EPA 8260B	Naphthalene	31.1	ug/L	5.0	05/02/19 18:41	
EPA 8260B	Xylene (Total)	8.4	ug/L	5.0	05/02/19 18:41	
EPA 8260B	o-Xylene	8.4	ug/L	5.0	05/02/19 18:41	
92427012017	**DUP-1**					
EPA 8260B	Benzene	4.6J	ug/L	5.0	05/03/19 12:19	
EPA 8260B	Ethylbenzene	3.5J	ug/L	5.0	05/03/19 12:19	

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PROJECT NARRATIVE

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Method: EPA 8011
Description: 8011 GCS EDB and DBCP
Client: SCDHEC
Date: May 07, 2019

General Information:
18 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.

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: 472557

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92426990045

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2563403)
  - 1,2-Dibromoethane (EDB)
- MSD (Lab ID: 2563404)
  - 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: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Method: EPA 8260B
Description: 8260 MSV
Client: SCDHEC
Date: May 07, 2019

General Information:
19 samples were analyzed for EPA 8260B. 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: 472667

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2563976)
  - tert-Butyl Alcohol

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 2563976)
  - tert-Butyl Formate

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 472667

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427012006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2563977)
  - tert-Butyl Alcohol
- MSD (Lab ID: 2563978)
  - tert-Butyl Alcohol

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PROJECT NARRATIVE

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Method: **EPA 8260B**
Description: 8260 MSV
Client: SCDHEC
Date: May 07, 2019

QC Batch: 472667

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427012006

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: 2563977)
  - tert-Butyl Formate
- MSD (Lab ID: 2563978)
  - tert-Butyl Formate

QC Batch: 472900

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427029018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2565249)
  - tert-Butyl Alcohol
- MSD (Lab ID: 2565250)
  - 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: 2565249)
  - tert-Butyl Formate
- MSD (Lab ID: 2565250)
  - tert-Butyl Formate

QC Batch: 473267

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427029010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2567088)
  - Benzene
  - Ethylbenzene
  - Methyl-tert-butyl ether
  - Naphthalene
  - Toluene
  - m&p-Xylene
  - o-Xylene
  - tert-Butyl Formate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2567088)
  - Benzene
  - Ethylbenzene
  - Toluene
  - m&p-Xylene
  - o-Xylene
  - tert-Butyl Formate

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PROJECT NARRATIVE

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Method: EPA 8260B
Description: 8260 MSV
Client: SCDHEC
Date: May 07, 2019

QC Batch: 473421

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427153001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2568009)
  - Benzene
  - Ethylbenzene
  - Methyl-tert-butyl ether
  - Naphthalene
  - Toluene
  - m&p-Xylene
  - o-Xylene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2568009)
  - Benzene
  - Ethylbenzene
  - Toluene
  - m&p-Xylene
  - o-Xylene

Additional Comments:

Analyte Comments:

QC Batch: 472667

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error.

- LCS (Lab ID: 2563976)
  - 3,3-Dimethyl-1-Butanol
  - tert-Amyl Alcohol

2g: Recovery failure due to spiking solution degradation. The initial/continuing calibration for this compound meets criteria and indicates acceptable instrument conditions to offer quantitative results.

- LCS (Lab ID: 2563976)
  - tert-Butyl Alcohol
  - tert-Butyl Formate
- MS (Lab ID: 2563977)
  - tert-Butyl Alcohol
- MSD (Lab ID: 2563978)
  - tert-Butyl Alcohol

QC Batch: 473267

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 2567088)
  - Toluene

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PROJECT NARRATIVE

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Method: **EPA 8260B**
Description: 8260 MSV
Client: SCDHEC
Date: May 07, 2019

Analyte Comments:

QC Batch: 473421

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 2568009)
  - Toluene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-1 **Lab ID: 92427012001** Collected: 04/25/19 14:45 Received: 04/26/19 08:03 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)	**0.049**	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 03:04	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/01/19 08:50	05/03/19 03:04	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 15:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 15:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 15:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 15:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 15:43	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 15:43	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 15:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 15:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 15:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 15:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 15:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 15:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 15:43	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 15:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 15:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 15:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 15:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/02/19 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/02/19 15:43	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 15:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-2 **Lab ID: 92427012002** Collected: 04/25/19 15:00 Received: 04/26/19 08:03 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	0.019	0.011	1	05/01/19 08:50	05/03/19 03:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/03/19 03:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 18:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:59	994-05-8	
Benzene	**21.0**	ug/L	5.0	1.7	1		05/02/19 18:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:59	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:59	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:59	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 18:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:59	1634-04-4	
Naphthalene	**48.3**	ug/L	5.0	2.1	1		05/02/19 18:59	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:59	108-88-3	
Xylene (Total)	**24.4**	ug/L	5.0	5.0	1		05/02/19 18:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:59	179601-23-1	
o-Xylene	**24.4**	ug/L	5.0	2.0	1		05/02/19 18:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		05/02/19 18:59	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		05/02/19 18:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-2D **Lab ID: 92427012003** Collected: 04/25/19 13:55 Received: 04/26/19 08:03 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	0.011	1	05/01/19 08:50	05/03/19 03:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/19 08:50	05/03/19 03:41	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:01	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:01	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:01	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/02/19 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/02/19 16:01	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/02/19 16:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-3R **Lab ID: 92427012004** Collected: 04/25/19 14:30 Received: 04/26/19 08:03 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)	**0.026**	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 03:59	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	05/01/19 08:50	05/03/19 03:59	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/07/19 01:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/07/19 01:34	994-05-8	
Benzene	**6.4**	ug/L	5.0	1.7	1		05/07/19 01:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/07/19 01:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/07/19 01:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/07/19 01:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/07/19 01:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/07/19 01:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/07/19 01:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/07/19 01:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/07/19 01:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/07/19 01:34	1634-04-4	
Naphthalene	**12.7**	ug/L	5.0	2.1	1		05/07/19 01:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/07/19 01:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/07/19 01:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/07/19 01:34	179601-23-1	
o-Xylene	**2.6J**	ug/L	5.0	2.0	1		05/07/19 01:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/07/19 01.34	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/07/19 01:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/07/19 01:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-4 **Lab ID: 92427012005** Collected: 04/25/19 12:00 Received: 04/26/19 08:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 04:17	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/03/19 04:17	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/05/19 17:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/05/19 17:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/05/19 17:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/05/19 17:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/05/19 17:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/05/19 17:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/05/19 17:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/05/19 17:00	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/05/19 17:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/05/19 17:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/05/19 17:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/05/19 17:00	1634-04-4	
Naphthalene	**156**	ug/L	5.0	2.1	1		05/05/19 17:00	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/05/19 17:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/05/19 17:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/05/19 17:00	179601-23-1	
o-Xylene	**3.0J**	ug/L	5.0	2.0	1		05/05/19 17:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/05/19 17:00	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/05/19 17:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/05/19 17:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-5 **Lab ID: 92427012006** Collected: 04/25/19 12:25 Received: 04/26/19 08:03 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	0.011	1	05/01/19 08:50	05/03/19 04:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	05/01/19 08:50	05/03/19 04:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:18	75-65-0	L1,M0
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:18	762-75-4	L2,P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:18	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:18	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/19 16:18	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 16:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-7 **Lab ID: 92427012007** Collected: 04/25/19 11:00 Received: 04/26/19 08:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/02/19 07:59	05/03/19 13:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/02/19 07:59	05/03/19 13:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/04/19 18:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/04/19 18:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/04/19 18:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/04/19 18:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/04/19 18:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/04/19 18:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/04/19 18:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/04/19 18:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/04/19 18:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/04/19 18:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/04/19 18:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/04/19 18:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/04/19 18:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/04/19 18:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/04/19 18:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/04/19 18:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/04/19 18:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/04/19 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/04/19 18:07	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/04/19 18:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-8 **Lab ID: 92427012008** Collected: 04/25/19 10:45 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 14:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/02/19 07:59	05/03/19 14:12	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:36	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:36	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:36	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:36	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/02/19 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/19 16:36	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		05/02/19 16:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-9 **Lab ID: 92427012009** Collected: 04/25/19 12:55 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 07:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	05/02/19 07:59	05/03/19 07:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:54	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:54	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:54	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:54	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/02/19 16:54	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/02/19 16:54	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		05/02/19 16:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-10 **Lab ID: 92427012010** Collected: 04/25/19 12:40 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 07:59	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/02/19 07:59	05/03/19 07:59	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 17:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 17:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 17:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 17:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 17:12	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 17:12	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 17:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 17:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 17:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 17:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 17:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 17:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 17:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 17:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 17:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 17:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 17:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/02/19 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/19 17:12	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 17:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-11 **Lab ID: 92427012011** Collected: 04/25/19 11:15 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 14:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/02/19 07:59	05/03/19 14:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 17:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 17:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 17:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 17:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 17:29	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 17:29	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 17:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 17:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 17:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 17:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 17:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 17:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 17:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 17:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 17:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 17:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 17:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/19 17:29	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/02/19 17:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-12 **Lab ID: 92427012012** Collected: 04/25/19 14:00 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 14:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/02/19 07:59	05/03/19 14:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 17:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 17:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 17:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 17:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 17:47	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 17:47	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 17:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 17:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 17:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 17:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 17:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 17:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 17:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 17:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 17:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 17:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 17:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 17:47	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/02/19 17:47	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		05/02/19 17:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-13 **Lab ID: 92427012013** Collected: 04/25/19 14:15 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 08:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/02/19 07:59	05/03/19 08:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/04/19 18:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/04/19 18:26	994-05-8	
Benzene	**24.5**	ug/L	5.0	1.7	1		05/04/19 18:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/04/19 18:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/04/19 18:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/04/19 18:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/04/19 18:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/04/19 18:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/04/19 18:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/04/19 18:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/04/19 18:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/04/19 18:26	1634-04-4	
Naphthalene	**119**	ug/L	5.0	2.1	1		05/04/19 18:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/04/19 18:26	108-88-3	
Xylene (Total)	**53.6**	ug/L	5.0	5.0	1		05/04/19 18:26	1330-20-7	
m&p-Xylene	**5.5J**	ug/L	10.0	4.1	1		05/04/19 18:26	179601-23-1	
o-Xylene	**53.6**	ug/L	5.0	2.0	1		05/04/19 18:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/19 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		05/04/19 18:26	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		05/04/19 18:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-14 **Lab ID: 92427012014** Collected: 04/25/19 13:25 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 09:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/02/19 07:59	05/03/19 09:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**79.9J**	ug/L	100	65.6	1		05/02/19 18:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:05	994-05-8	
Benzene	**4.6J**	ug/L	5.0	1.7	1		05/02/19 18:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:05	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:05	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:05	64-17-5	
Ethylbenzene	**3.2J**	ug/L	5.0	1.8	1		05/02/19 18:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 18:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 18:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 18:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/02/19 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/19 18:05	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		05/02/19 18:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-16 **Lab ID: 92427012015** Collected: 04/25/19 11:40 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 09:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/02/19 07:59	05/03/19 09:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 18:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 18:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:23	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:23	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 18:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 18:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 18:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 18:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/02/19 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/02/19 18:23	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		05/02/19 18:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: MW-18 **Lab ID: 92427012016** Collected: 04/25/19 15:17 Received: 04/26/19 08:03 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)	**0.68**	ug/L	0.019	0.011	1	05/04/19 11:19	05/05/19 04:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	05/04/19 11:19	05/05/19 04:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 18:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:41	994-05-8	
Benzene	**29.2**	ug/L	5.0	1.7	1		05/02/19 18:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:41	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:41	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 18:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:41	1634-04-4	
Naphthalene	**31.1**	ug/L	5.0	2.1	1		05/02/19 18:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:41	108-88-3	
Xylene (Total)	**8.4**	ug/L	5.0	5.0	1		05/02/19 18:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:41	179601-23-1	
o-Xylene	**8.4**	ug/L	5.0	2.0	1		05/02/19 18:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/02/19 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/02/19 18:41	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 18:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: DUP-1 **Lab ID: 92427012017** Collected: 04/25/19 13:25 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 15:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/02/19 07:59	05/03/19 15:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/03/19 12:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/03/19 12:19	994-05-8	
Benzene	**4.6J**	ug/L	5.0	1.7	1		05/03/19 12:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/03/19 12:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/03/19 12:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/03/19 12:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/03/19 12:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/03/19 12:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/03/19 12:19	64-17-5	
Ethylbenzene	**3.5J**	ug/L	5.0	1.8	1		05/03/19 12:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/03/19 12:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/03/19 12:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/03/19 12:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/03/19 12:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/03/19 12:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/03/19 12:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/03/19 12:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		05/03/19 12:19	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		05/03/19 12:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/03/19 12:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: Field Blank **Lab ID: 92427012018** Collected: 04/25/19 15:25 Received: 04/26/19 08:03 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	0.011	1	05/02/19 07:59	05/03/19 10:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/02/19 07:59	05/03/19 10:28	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 14:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 14:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 14:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 14:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 14:31	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 14:31	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 14:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 14:31	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 14:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 14:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 14:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 14:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 14:31	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 14:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 14:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 14:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/02/19 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/02/19 14:31	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 14:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Sample: Trip Blank **Lab ID: 92427012019** Collected: 04/25/19 15:26 Received: 04/26/19 08:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 14:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 14:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 14:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 14:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 14:49	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 14:49	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 14:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 14:49	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 14:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 14:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 14:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 14:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 14:49	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 14:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 14:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 14:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 14:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/02/19 14:49	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/02/19 14:49	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 14:49	2037-26-5	

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 472667 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92427012001, 92427012002, 92427012003, 92427012006, 92427012008, 92427012009, 92427012010, 92427012011, 92427012012, 92427012014, 92427012015, 92427012016, 92427012018, 92427012019

METHOD BLANK: 2563975 Matrix: Water
Associated Lab Samples: 92427012001, 92427012002, 92427012003, 92427012006, 92427012008, 92427012009, 92427012010, 92427012011, 92427012012, 92427012014, 92427012015, 92427012016, 92427012018, 92427012019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/02/19 14:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/02/19 14:13	
Benzene	ug/L	ND	5.0	1.7	05/02/19 14:13	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/02/19 14:13	
Ethanol	ug/L	ND	200	144	05/02/19 14:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/02/19 14:13	
Ethylbenzene	ug/L	ND	5.0	1.8	05/02/19 14:13	
m&p-Xylene	ug/L	ND	10.0	4.1	05/02/19 14:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/02/19 14:13	
Naphthalene	ug/L	ND	5.0	2.1	05/02/19 14:13	
o-Xylene	ug/L	ND	5.0	2.0	05/02/19 14:13	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/02/19 14:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/02/19 14:13	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/02/19 14:13	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/02/19 14:13	
Toluene	ug/L	ND	5.0	2.0	05/02/19 14:13	
Xylene (Total)	ug/L	ND	5.0	5.0	05/02/19 14:13	
1,2-Dichloroethane-d4 (S)	%	94	70-130		05/02/19 14:13	
4-Bromofluorobenzene (S)	%	100	70-130		05/02/19 14:13	
Toluene-d8 (S)	%	108	70-130		05/02/19 14:13	

LABORATORY CONTROL SAMPLE: 2563976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	899	90	70-130	1g
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	53.8	108	70-130	
Ethanol	ug/L	2000	1700	85	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	51.8	104	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	55.0	110	70-130	
Naphthalene	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	51.4	103	70-130	
tert-Amyl Alcohol	ug/L	1000	956	96	70-130	1g
tert-Amylmethyl ether	ug/L	100	113	113	70-130	
tert-Butyl Alcohol	ug/L	500	715	143	70-130	2g,L1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

LABORATORY CONTROL SAMPLE: 2563976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	ND	5	70-130	2g,L2
Toluene	ug/L	50	49.2	98	70-130	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563977 2563978

Parameter	Units	92427012006 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	20	20	20.5	21.9	103	109	70-130	6	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	461	474	115	119	70-130	3	30	
Benzene	ug/L	ND	20	20	21.4	23.6	107	118	70-130	10	30	
Diisopropyl ether	ug/L	ND	20	20	20.0	21.3	100	107	70-130	6	30	
Ethanol	ug/L	ND	800	800	654	698	82	87	70-130	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.4	44.2	104	110	70-130	6	30	
Ethylbenzene	ug/L	ND	20	20	22.9	23.9	115	120	70-130	4	30	
m&p-Xylene	ug/L	ND	40	40	46.0	49.2	115	123	70-130	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.7	23.1	108	116	70-130	6	30	
Naphthalene	ug/L	ND	20	20	22.3	23.4	111	117	70-130	5	30	
o-Xylene	ug/L	ND	20	20	23.0	24.7	115	124	70-130	7	30	
tert-Amyl Alcohol	ug/L	ND	400	400	404	428	101	107	70-130	6	30	
tert-Amylmethyl ether	ug/L	ND	40	40	44.5	48.6	111	122	70-130	9	30	
tert-Butyl Alcohol	ug/L	ND	200	200	301	313	151	156	70-130	4	30	2g,M0
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	20	20	21.4	23.2	107	116	70-130	8	30	
Xylene (Total)	ug/L	ND	60	60	69.0	73.9	115	123	70-130	7	30	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130			
4-Bromofluorobenzene (S)	%						99	97	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 472900 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92427012017

METHOD BLANK: 2565247 Matrix: Water
Associated Lab Samples: 92427012017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/03/19 11:44	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/03/19 11:44	
Benzene	ug/L	ND	5.0	1.7	05/03/19 11:44	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/03/19 11:44	
Ethanol	ug/L	ND	200	144	05/03/19 11:44	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/03/19 11:44	
Ethylbenzene	ug/L	ND	5.0	1.8	05/03/19 11:44	
m&p-Xylene	ug/L	ND	10.0	4.1	05/03/19 11:44	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/03/19 11:44	
Naphthalene	ug/L	ND	5.0	2.1	05/03/19 11:44	
o-Xylene	ug/L	ND	5.0	2.0	05/03/19 11:44	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/03/19 11:44	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/03/19 11:44	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/03/19 11:44	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/03/19 11:44	
Toluene	ug/L	ND	5.0	2.0	05/03/19 11:44	
Xylene (Total)	ug/L	ND	5.0	5.0	05/03/19 11:44	
1,2-Dichloroethane-d4 (S)	%	105	70-130		05/03/19 11:44	
4-Bromofluorobenzene (S)	%	96	70-130		05/03/19 11:44	
Toluene-d8 (S)	%	100	70-130		05/03/19 11:44	

LABORATORY CONTROL SAMPLE: 2565248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.7	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethanol	ug/L	2000	1980	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	89.9	90	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	47.0	94	70-130	
Naphthalene	ug/L	50	49.8	100	70-130	
o-Xylene	ug/L	50	49.9	100	70-130	
tert-Amyl Alcohol	ug/L	1000	964	96	70-130	
tert-Amylmethyl ether	ug/L	100	99.1	99	70-130	
tert-Butyl Alcohol	ug/L	500	471	94	70-130	
tert-Butyl Formate	ug/L	400	399	100	70-130	
Toluene	ug/L	50	49.2	98	70-130	

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

LABORATORY CONTROL SAMPLE: 2565248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2565249 2565250

Parameter	Units	92427029018 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	20	20	19.4	18.9	97	95	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	366	395	92	99	70-130	7	30	
Benzene	ug/L	ND	20	20	19.8	19.8	99	99	70-130	0	30	
Diisopropyl ether	ug/L	ND	20	20	20.6	20.5	103	102	70-130	1	30	
Ethanol	ug/L	ND	800	800	766	784	96	98	70-130	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.7	38.0	94	95	70-130	1	30	
Ethylbenzene	ug/L	ND	20	20	20.6	20.4	103	102	70-130	1	30	
m&p-Xylene	ug/L	ND	40	40	41.8	41.1	105	103	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.6	19.1	91	94	70-130	3	30	
Naphthalene	ug/L	ND	20	20	16.3	17.9	76	84	70-130	9	30	
o-Xylene	ug/L	ND	20	20	20.6	20.2	103	101	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	400	400	387	390	97	98	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	40	40	39.8	39.2	99	98	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	271	279	135	140	70-130	3	30	M1
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	20	20	20.0	19.8	100	99	70-130	1	30	
Xylene (Total)	ug/L	ND	60	60	62.4	61.3	104	102	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						102	104	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 473112
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92427012005

METHOD BLANK: 2566122
Matrix: Water
Associated Lab Samples: 92427012005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/05/19 11:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/05/19 11:09	
Benzene	ug/L	ND	5.0	1.7	05/05/19 11:09	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/05/19 11:09	
Ethanol	ug/L	ND	200	144	05/05/19 11:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/05/19 11:09	
Ethylbenzene	ug/L	ND	5.0	1.8	05/05/19 11:09	
m&p-Xylene	ug/L	ND	10.0	4.1	05/05/19 11:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/05/19 11:09	
Naphthalene	ug/L	ND	5.0	2.1	05/05/19 11:09	
o-Xylene	ug/L	ND	5.0	2.0	05/05/19 11:09	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/05/19 11:09	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/05/19 11:09	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/05/19 11:09	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/05/19 11:09	
Toluene	ug/L	ND	5.0	2.0	05/05/19 11:09	
Xylene (Total)	ug/L	ND	5.0	5.0	05/05/19 11:09	
1,2-Dichloroethane-d4 (S)	%	120	70-130		05/05/19 11:09	
4-Bromofluorobenzene (S)	%	101	70-130		05/05/19 11:09	
Toluene-d8 (S)	%	102	70-130		05/05/19 11:09	

LABORATORY CONTROL SAMPLE: 2566123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Benzene	ug/L	50	39.7	79	70-130	
Diisopropyl ether	ug/L	50	57.0	114	70-130	
Ethanol	ug/L	2000	2060	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.5	99	70-130	
Ethylbenzene	ug/L	50	50.0	100	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	55.3	111	70-130	
Naphthalene	ug/L	50	59.1	118	70-130	
o-Xylene	ug/L	50	48.5	97	70-130	
tert-Amyl Alcohol	ug/L	1000	895	89	70-130	
tert-Amylmethyl ether	ug/L	100	88.9	89	70-130	
tert-Butyl Alcohol	ug/L	500	535	107	70-130	
tert-Butyl Formate	ug/L	400	386	97	70-130	
Toluene	ug/L	50	46.5	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

LABORATORY CONTROL SAMPLE: 2566123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2567391 2567392

Parameter	Units	92427153003 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	100	100	98.7	97.4	99	97	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2050	1890	103	95	70-130	8	30	
Benzene	ug/L	ND	100	100	115	115	107	108	70-130	0	30	
Diisopropyl ether	ug/L	ND	100	100	108	104	108	104	70-130	3	30	
Ethanol	ug/L	ND	4000	4000	4090	3850	102	96	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	200	200	200	195	100	98	70-130	2	30	
Ethylbenzene	ug/L	558	100	100	670	660	112	101	70-130	2	30	
m&p-Xylene	ug/L	534	200	200	738	727	102	96	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	100	100	110	107	110	107	70-130	3	30	
Naphthalene	ug/L	644	100	100	754	732	110	88	70-130	3	30	
o-Xylene	ug/L	88.6	100	100	202	200	114	112	70-130	1	30	
tert-Amyl Alcohol	ug/L	ND	2000	2000	2130	1990	106	100	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	200	200	220	216	110	108	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	1000	1000	1010	946	101	95	70-130	6	30	
tert-Butyl Formate	ug/L	ND	800	800	781	728	98	91	70-130	7	30	
Toluene	ug/L	ND	100	100	109	110	107	108	70-130	1	30	
Xylene (Total)	ug/L	623	300	300	940	927	106	101	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						100	102	70-130			

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 473267 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92427012007, 92427012013

METHOD BLANK: 2567085 Matrix: Water
Associated Lab Samples: 92427012007, 92427012013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/04/19 12:19	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/04/19 12:19	
Benzene	ug/L	ND	5.0	1.7	05/04/19 12:19	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/04/19 12:19	
Ethanol	ug/L	ND	200	144	05/04/19 12:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/04/19 12:19	
Ethylbenzene	ug/L	ND	5.0	1.8	05/04/19 12:19	
m&p-Xylene	ug/L	ND	10.0	4.1	05/04/19 12:19	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/04/19 12:19	
Naphthalene	ug/L	ND	5.0	2.1	05/04/19 12:19	
o-Xylene	ug/L	ND	5.0	2.0	05/04/19 12:19	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/04/19 12:19	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/04/19 12:19	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/04/19 12:19	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/04/19 12:19	
Toluene	ug/L	ND	5.0	2.0	05/04/19 12:19	
Xylene (Total)	ug/L	ND	5.0	5.0	05/04/19 12:19	
1,2-Dichloroethane-d4 (S)	%	98	70-130		05/04/19 12:19	
4-Bromofluorobenzene (S)	%	103	70-130		05/04/19 12:19	
Toluene-d8 (S)	%	102	70-130		05/04/19 12:19	

LABORATORY CONTROL SAMPLE: 2567086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.9	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	52.7	105	70-130	
Diisopropyl ether	ug/L	50	57.2	114	70-130	
Ethanol	ug/L	2000	2050	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	50.8	102	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	58.7	117	70-130	
Naphthalene	ug/L	50	52.9	106	70-130	
o-Xylene	ug/L	50	51.0	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1050	105	70-130	
tert-Amylmethyl ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	513	103	70-130	
tert-Butyl Formate	ug/L	400	463	116	70-130	
Toluene	ug/L	50	50.2	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

LABORATORY CONTROL SAMPLE: 2567086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2567087 2567088

Parameter	Units	92427029010 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	1000	1000	1070	1090	103	105	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	22200	22300	111	112	70-130	1	30	
Benzene	ug/L	1330	1000	1000	2540	3720	122	239	70-130	38	30	M1,R1
Diisopropyl ether	ug/L	ND	1000	1000	1130	1150	111	112	70-130	1	30	
Ethanol	ug/L	ND	40000	40000	42200	40400	105	101	70-130	4	30	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	2050	2050	103	103	70-130	0	30	
Ethylbenzene	ug/L	1410	1000	1000	2480	3620	108	222	70-130	37	30	M1,R1
m&p-Xylene	ug/L	5050	2000	2000	7110	10600	103	277	70-130	39	30	M1,R1
Methyl-tert-butyl ether	ug/L	381	1000	1000	1600	2020	122	164	70-130	23	30	M1
Naphthalene	ug/L	456	1000	1000	1510	1940	105	148	70-130	25	30	M1
o-Xylene	ug/L	2190	1000	1000	3270	5090	109	291	70-130	43	30	M1,R1
tert-Amyl Alcohol	ug/L	ND	20000	20000	22000	23500	110	118	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	2220	2230	111	111	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	11400	11800	114	118	70-130	4	30	
tert-Butyl Formate	ug/L	ND	8000	8000	5930	3550	74	44	70-130	50	30	M1,R1
Toluene	ug/L	6190	1000	1000	7060	11600	87	540	70-130	49	30	E,M1, R1
Xylene (Total)	ug/L	7230	3000	3000	10400	15700	105	282	70-130	41	30	MS,RS
1,2-Dichloroethane-d4 (S)	%						106	104	70-130			
4-Bromofluorobenzene (S)	%						100	97	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 473421 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92427012004

METHOD BLANK: 2567585 Matrix: Water
Associated Lab Samples: 92427012004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/06/19 21:54	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/06/19 21:54	
Benzene	ug/L	ND	5.0	1.7	05/06/19 21:54	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/06/19 21:54	
Ethanol	ug/L	ND	200	144	05/06/19 21:54	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/06/19 21:54	
Ethylbenzene	ug/L	ND	5.0	1.8	05/06/19 21:54	
m&p-Xylene	ug/L	ND	10.0	4.1	05/06/19 21:54	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/06/19 21:54	
Naphthalene	ug/L	ND	5.0	2.1	05/06/19 21:54	
o-Xylene	ug/L	ND	5.0	2.0	05/06/19 21:54	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/06/19 21:54	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/06/19 21:54	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/06/19 21:54	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/06/19 21:54	
Toluene	ug/L	ND	5.0	2.0	05/06/19 21:54	
Xylene (Total)	ug/L	ND	5.0	5.0	05/06/19 21:54	
1,2-Dichloroethane-d4 (S)	%	94	70-130		05/06/19 21:54	
4-Bromofluorobenzene (S)	%	102	70-130		05/06/19 21:54	
Toluene-d8 (S)	%	103	70-130		05/06/19 21:54	

LABORATORY CONTROL SAMPLE: 2567586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
Ethanol	ug/L	2000	1970	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	54.6	109	70-130	
Naphthalene	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	49.2	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	505	101	70-130	
tert-Butyl Formate	ug/L	400	433	108	70-130	
Toluene	ug/L	50	49.2	98	70-130	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

LABORATORY CONTROL SAMPLE: 2567586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2568008 2568009

Parameter	Units	92427153001 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	1000	1000	972	996	97	100	70-130	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	19800	20300	99	102	70-130	3	30	
Benzene	ug/L	1970	1000	1000	3130	4470	116	250	70-130	35	30	M1,R1
Diisopropyl ether	ug/L	ND	1000	1000	1050	1090	105	109	70-130	3	30	
Ethanol	ug/L	ND	40000	40000	39600	40500	99	101	70-130	2	30	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1970	2020	99	101	70-130	2	30	
Ethylbenzene	ug/L	1340	1000	1000	2290	3180	95	184	70-130	33	30	M1,R1
m&p-Xylene	ug/L	4050	2000	2000	5830	8210	89	208	70-130	34	30	M1,R1
Methyl-tert-butyl ether	ug/L	256	1000	1000	1410	1650	116	139	70-130	16	30	M1
Naphthalene	ug/L	497	1000	1000	1520	1910	102	141	70-130	23	30	M1
o-Xylene	ug/L	1440	1000	1000	2370	3360	93	192	70-130	35	30	M1,R1
tert-Amyl Alcohol	ug/L	ND	20000	20000	22000	22900	110	115	70-130	4	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	2140	2160	107	108	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	11200	11400	112	114	70-130	2	30	
tert-Butyl Formate	ug/L	ND	8000	8000	7230	6370	90	80	70-130	13	30	
Toluene	ug/L	6900	1000	1000	7650	11400	75	452	70-130	40	30	E,M1, R1
Xylene (Total)	ug/L	5490	3000	3000	8200	11600	90	203	70-130	34	30	MS,RS
1,2-Dichloroethane-d4 (S)	%						100	98	70-130			
4-Bromofluorobenzene (S)	%						95	98	70-130			
Toluene-d8 (S)	%						100	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 472557 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92427012001, 92427012002, 92427012003, 92427012004, 92427012005, 92427012006

METHOD BLANK: 2563399 Matrix: Water
Associated Lab Samples: 92427012001, 92427012002, 92427012003, 92427012004, 92427012005, 92427012006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	05/02/19 20:54	
1-Chloro-2-bromopropane (S)	%	103	60-140		05/02/19 20:54	

LABORATORY CONTROL SAMPLE & LCSD: 2563400 2563401

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.28	0.28	113	114	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				97	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563403 2563404

Parameter	Units	92426990045 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	0.32	0.25	0.25	0.29	0.31	-12	-4	60-140	7	20	M1
1-Chloro-2-bromopropane (S)	%						99	102	60-140			

SAMPLE DUPLICATE: 2563402

Parameter	Units	92426990044 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	99			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 472770 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92427012007, 92427012008, 92427012009, 92427012010, 92427012011, 92427012012, 92427012013, 92427012014, 92427012015, 92427012017, 92427012018

METHOD BLANK: 2564587 Matrix: Water
Associated Lab Samples: 92427012007, 92427012008, 92427012009, 92427012010, 92427012011, 92427012012, 92427012013, 92427012014, 92427012015, 92427012017, 92427012018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	05/03/19 05:12	
1-Chloro-2-bromopropane (S)	%	107	60-140		05/03/19 05:12	

LABORATORY CONTROL SAMPLE & LCSD: 2564588 2564589

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.28	0.28	113	111	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				99	96	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2564591 2564592

Parameter	Units	92427012008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.30	0.31	124	128	60-140	3	20	
1-Chloro-2-bromopropane (S)	%						98	101	60-140			

SAMPLE DUPLICATE: 2564590

Parameter	Units	92427012007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	103	100			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

QC Batch: 473254 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92427012016

METHOD BLANK: 2567030 Matrix: Water
Associated Lab Samples: 92427012016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.012	05/05/19 03:22	
1-Chloro-2-bromopropane (S)	%	115	60-140		05/05/19 03:22	

LABORATORY CONTROL SAMPLE & LCSD: 2567031 2567032

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.30	0.27	118	104	60-140	13	20	
1-Chloro-2-bromopropane (S)	%				120	102	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2567033 2567034

Parameter	Units	92427022015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.25	0.25	104	103	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						104	104	60-140			

SAMPLE DUPLICATE: 2567035

Parameter	Units	92427029001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.98	0.13	152	20	
1-Chloro-2-bromopropane (S)	%	109	86			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error.
2g	Recovery failure due to spiking solution degradation. The initial/continuing calibration for this compound meets criteria and indicates acceptable instrument conditions to offer quantitative results.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ryder Terminal 11929/58916
Pace Project No.: 92427012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92427012001	MW-1	EPA 8011	472557	EPA 8011	472692
92427012002	MW-2	EPA 8011	472557	EPA 8011	472692
92427012003	MW-2D	EPA 8011	472557	EPA 8011	472692
92427012004	MW-3R	EPA 8011	472557	EPA 8011	472692
92427012005	MW-4	EPA 8011	472557	EPA 8011	472692
92427012006	MW-5	EPA 8011	472557	EPA 8011	472692
92427012007	MW-7	EPA 8011	472770	EPA 8011	472943
92427012008	MW-8	EPA 8011	472770	EPA 8011	472943
92427012009	MW-9	EPA 8011	472770	EPA 8011	472943
92427012010	MW-10	EPA 8011	472770	EPA 8011	472943
92427012011	MW-11	EPA 8011	472770	EPA 8011	472943
92427012012	MW-12	EPA 8011	472770	EPA 8011	472943
92427012013	MW-13	EPA 8011	472770	EPA 8011	472943
92427012014	MW-14	EPA 8011	472770	EPA 8011	472943
92427012015	MW-16	EPA 8011	472770	EPA 8011	472943
92427012016	MW-18	EPA 8011	473254	EPA 8011	473277
92427012017	DUP-1	EPA 8011	472770	EPA 8011	472943
92427012018	Field Blank	EPA 8011	472770	EPA 8011	472943
92427012001	MW-1	EPA 8260B	472667		
92427012002	MW-2	EPA 8260B	472667		
92427012003	MW-2D	EPA 8260B	472667		
92427012004	MW-3R	EPA 8260B	473421		
92427012005	MW-4	EPA 8260B	473112		
92427012006	MW-5	EPA 8260B	472667		
92427012007	MW-7	EPA 8260B	473267		
92427012008	MW-8	EPA 8260B	472667		
92427012009	MW-9	EPA 8260B	472667		
92427012010	MW-10	EPA 8260B	472667		
92427012011	MW-11	EPA 8260B	472667		
92427012012	MW-12	EPA 8260B	472667		
92427012013	MW-13	EPA 8260B	473267		
92427012014	MW-14	EPA 8260B	472667		
92427012015	MW-16	EPA 8260B	472667		
92427012016	MW-18	EPA 8260B	472667		
92427012017	DUP-1	EPA 8260B	472900		
92427012018	Field Blank	EPA 8260B	472667		
92427012019	Trip Blank	EPA 8260B	472667		

WO# : 92427012

92427012

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY

Company: SCDHEC

Address: 2600 Bull Street Columbia SC 29201

Billing Information:

Report To: R Dunn

Email To: dunnra@dhec.sc.gov

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Ryder Terminal

State: SC / County/City: Greenville

Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:

Email:

Site/Facility ID #: UST 11929

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Colin Phillips

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ______

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

Container Preservative Type **

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

Analyses

Lab Project Manager:

Lab Profile/Line:

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEXNM 1201A 8015 8260B	EDB 8011	Lab Sample # / Comments
MW-1	GW	G	4/25/19	14:45				6	X	X	No Odor -001
MW-2	|	|	|	15:00				|	|	|	No Odor -002
MW-2D	|	|	|	13:55				|	|	|	No Odor -003
MW-3R	|	|	|	14:30				|	|	|	Strong Odor Sheen -004
MW-4	|	|	|	17:00				|	|	|	Odor Sheen -005
MW-5	GW	G	4/25/19	17:25				6	X	X	No Odor -006
MW-6											No Sample
MW-7	GW	G	4/25/19	11:00				6	X	X	No Odor -007
MW-8	GW	G	4/25/19	10:45				6	X	X	No Odor -008
MW-9	GW	G	4/25/19	12:55				6	X	X	No Odor -009

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	Y N (NA)
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	Y (N) NA
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	Y N (NA)
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	Y N (NA)
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments: 92427012

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

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

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Lab Tracking #: 2351101

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92T08
Cooler 1 Temp Upon Receipt: 2.2 oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: ____ oC
Comments: [initials] 4-26-19

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / MEC	4/26/19 8:03	[signature] Pace	4-26-19 803
[signature] Pace	4-26-19 1413	[signature]	4-26-19 1413

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

WO#:92427012

PM: AMB Due Date: 05/03/19

CLIENT: 92-SCDHEC

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

Company: SCDHEC

Billing Information:

Address: 2600 Bull Street Columbia SC 29201

Report To: R Dunn

Email To: dunnra@dhec.sc.gov

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Ryder Terminal

State: SC County/City: Greenville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:

Site/Facility ID #: UST 11929

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Colin Phillips

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

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

Order Number or ... ONLY

Container Preservative Type **

Lab Project Manager:

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

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Item	Response
Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	Y N (NA)
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	(Y) N NA
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	Y N (NA)
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	Y N (NA)
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEXNMIZDCA Oxys 8260B	EDB 8011	Lab Sample # / Comments
MW-10	GW	G	4/25/19	12:40				6	X	X	No Odor -010
MW-11	|	|	|	11:15				|	|	|	No Odor -011
MW-12	|	|	|	14:00				|	|	|	No Odor -012
MW-13	|	|	|	14:15				|	|	|	No Odor -013
MW-14	GW	G	4/25/19	13:25				6	X	X	No Odor -014
MW-15											No Sample
MW-16	GW	G	4/25/19	11:40				6	X	X	No Odor -015
MW-17											No Sample
MW-18	GW	G	4/25/19	15:17				6	X	X	Odor Sheen -016
Dup 1	GW	G	4/25/19	13:25				6	X	X	No Odor -017

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Packing Material Used:

Lab Tracking #: 2351102

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

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92T048
Cooler 1 Temp Upon Receipt: 3.2 oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: ____ oC
Comments: P 4-26-19

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature] / MEC I	4/26/19 8:03	[signature] Pace	4-26-19 803	Table #:
[signature] Pace	4-26-19 1415	[signature]	4-26-19 1415	Acctnum: Template: Prelogin:
				PM: PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB **WO# : 92427012**
PM: AMB Due Date: 05/03/19
CLIENT: 92-SCDHEC

...r Number or ... LAB USE ONLY

Company: SCDHEC

Billing Information:

Address: 2600 Bull Street Columbia SC 29201

Report To: R. Dunn

Email To: dunnra@dhec.sc.gov

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Ryder Terminal

State: SC / County/City: Greenville

Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:

Site/Facility ID #: UST 11929

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Colin Phillips

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ______

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

Container Preservative Type **

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

Lab Project Manager:

Analyses: BTEXNMIZDCAOxys 8260B; EDB 8011

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	BTEXNMIZDCAOxys 8260B	EDB 8011	Lab Sample # / Comments
Field Blank	GW	G	4/25/19	15:25				6	X	X	FB -018
Trip Blank	GW	G	4/25/19	15:26				2	X		TB -019

Lab Profile/Line:

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N (NA)
- Custody Signatures Present Y N NA
- Collector Signature Present (Y) N NA
- Bottles Intact (Y) N NA
- Correct Bottles (Y) N NA
- Sufficient Volume (Y) N NA
- Samples Received on Ice (Y) N NA
- VOA - Headspace Acceptable (Y) N NA
- USDA Regulated Soils Y N (NA)
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N (NA)
- Cl Strips: ______
- Sample pH Acceptable Y N (NA)
- pH Strips: ______
- Sulfide Present Y N (NA)
- Lead Acetate Strips: ______

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Packing Material Used:

Lab Tracking #: 2351103

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

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92T048
Cooler 1 Temp Upon Receipt: 2.1 oC
Cooler 1 Therm Corr. Factor: ______ oC
Cooler 1 Corrected Temp: ______ oC
Comments: -0 4269

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / WECI	4/26/19 8:03	[signature] Pace	4-26-19 803
[signature] Pace	4-26-19 1913	[signature]	4-26-19 1913

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / NO

Page: ______ of: ______

dhec
Healthy People. Healthy Communities.

JUN 2 0 2019

WHEELER PROPERTIES LLC
1341 RUTHERFORD RD
GREENVILLE SC 29609

Re: **Request for Property Access - Second Request**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929
UST Division Letter dated January 30 ,2019
Greenville County

To whom it may concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) requested access to your property in January 2019 to enable necessary assessment activities. The scope of work is for Emerald, Inc. and Midlands Environmental Consultants Inc (MECI) to perform an Aggressive Fluid Vapor Recovery event on site and collect groundwater samples from the monitoring wells on your property, to fully assess the petroleum release. To date a reply has not been received. For reference a copy of the letter has been attached for your information.

The Division has the authority pursuant to the State Underground Petroleum Environmental Response Bank Act (S.C. Code Ann. § 44-2-10 *et seq.* (Supp. 1996)) and the UST Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold the UST owner/ operator, responsible for addressing the existing contamination. The Division also has authority under the Pollution Control Act (S.C. Code Ann. § 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Division believes it to be in your best interest to allow the UST Division and our contractors Emerald, Inc. and MECI to address the problem as we, until now, have done. There will be no cost to you in allowing Emerald, Inc. and MECI to access your property for environmental activities. If you deny access to your property, you may be required to conduct environmental assessment activities to include cleanup activities at your own expense.

The UST Management Division requests that you allow assessment activities to proceed in a timely manner and return the required permission form. **Please sign the enclosed permission form and return it to my attention on or before Monday, July 1, 2019. If not, the Division may pursue a court order to gain access to the property.** Please be advised if the UST Division obtains a court order to conduct the work, assessment activities may be conducted at a time that may be disruptive to you or your tenants.

Your cooperation is greatly appreciated. If you have any questions, please contact me at (803) 898-2446, fax me at (803) 898-0673, or e-mail me at gladdet@dhec.sc.gov.

Sincerely,

Thomas Gladden Jr, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: UST Division Letter dated June 30, 2019
Permission Form

cc: Technical file (without enc.)

State Lead Option
Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit #	**11929**		
Facility Name:		Former Ryder Terminal	
Facility Address:		10 Woods Lake Dr. Greenville SC	
Facility Phone Number:			
Is facility within city limits? (circle yes/no)		**Yes**	**No**
Name of nearest intersecting street/road/highway:			
Does public water/sewer utility service this facility?		**Yes**	**No**
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:			
Name:		**Phone Number:**	
Were USTs previously removed from the ground at this facility?		**Yes**	**No**
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):			
Name:		**Phone Number:**	
Is the facility currently leased to someone?		**Yes**	**No**
*If yes, notify them of the pending work scope, and please provide their name/contact number:			
Name:		**Phone Number:**	

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of Property Owner (Print):		
Signature of Property Owner or authorized representative:		**Date**
Affiliation (if applicable)		
Signature of Witness		**Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:		

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ANDY MITCHELL
101 CHELSEA LANE
GREER SC 29650

FEB 2 8 2020

UST 49 Tech DOCKETING

Re: Site History Summary
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929
Release reported February 25, 1997
Request for Site History Summary received February 6, 2020
Greenville County

Dear Mr. Mitchell:

In response to your request for information about environmental conditions and liability associated with the referenced facility, the following is provided.

According to our records, five (5) underground storage tanks (USTs) were registered with the South Carolina Department of Health and Environmental Control (DHEC). All 5 USTs were abandoned by removal on May 1, 1989.

Our records indicate that Lloyd Auten, the tank owner at the time of the above referenced release, complied with the regulatory requirements and performed the initial response actions outlined in R.61-92, UST Control Regulations, Section 280.61. Additionally, they are currently pursuing the extent and severity of petroleum chemicals of concern under our direction. An Aggressive Fluid and Vapor Recovery (AFVR) event will soon be conducted, followed by a groundwater sampling event.

The release of petroleum products from the facility assigned the UST Permit number referenced above is qualified to receive funding under the conditions of the State Underground Petroleum Environmental Response Bank (SUPERB) Act. This means that reasonable costs can be paid by the SUPERB Account for site rehabilitation actions associated with the release. Lloyd Auten, under state and federal law, retains responsibility for any additional actions and associated costs for the 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.

The Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. However, DHEC advises against installing a water supply well for drinking, cooking, or bathing purposes until rehabilitation activities are is completed. If you should choose to install a water supply well for these purposes at this time, it is at your discretion. Any future work required by DHEC 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 contact me at (803) 898-2889. I can also be reached by email at thomasma@dhec.sc.gov or by fax at 803-898-0673.

Sincerely,

Morgan Thomas

Morgan Thomas, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical File

dhec
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MAY 12 2021

CERTIFIED MAIL
9214 8969 0099 9790 1419 5406 41

F ANDREW MITCHELL
101 CHELSEA LN
GREER SC 29650

Re: **Request for Property Access**
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929
Release reported February 25, 1997
Greenville County

Dear Mr. Mitchell:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary to define the petroleum plume. The UST Division requests your permission for the state lead contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-2889, by fax at (803) 898-0673, or by email at thomasma@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Morgan Thomas

Morgan Thomas, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)

State Lead Option
Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit # 11929		
Facility Name: Former Ryder Terminal		
Facility Address: 10 Woods Lake Dr., Greenville, SC 29607		
Facility Phone Number:		
Is facility within city limits? (check yes/no)	☐ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:		
Does public water/sewer utility service this facility?	☐ **Yes**	☐ **No**
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:		
Name:	**Phone Number:**	
Were USTs previously removed from the ground at this facility?	☐ **Yes**	☐ **No**
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):		
Name:	**Phone Number:**	
Is the facility currently leased to someone?	☐ **Yes**	☐ **No**
*If yes, notify them of the pending work scope, and please provide their name/contact number:		
Name:	**Phone Number:**	

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of Property Owner (Print):	
Signature of Property Owner or authorized representative:	**Date**
Affiliation (if applicable)	
Signature of Witness	**Date**

Contact Info		
Phone Numbers:	**Home:**	**Cell:**
Email Address:		

State Lead Option Property Access Agreement for Site Rehabilitation

Purpose of the form gives property access to contractor to perform necessary cleanup activities at UST release site(s).

Owner/Operator(s) of UST release sites.

Item-by-item instructions for completing the form.

- Fill in all Site Information boxes.
- Answer all the questions and record any applicable information in the blanks.
- Sign and date the form.

Form is scanned and saved electronically – Record Group Number 169, Retention Schedule 13300

Morgan

State Lead Option
Property Access Agreement for Site Rehabilitation

UST 51 DHEC

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit # 11929		
Facility Name: Former Ryder Terminal		
Facility Address: 10 Woods Lake Dr., Greenville, SC 29607		
Facility Phone Number: 864-884-0937		
Is facility within city limits? (check yes/no)	☒ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:	Lowndes Hill Rd.	
Does public water/sewer utility service this facility?	☒ **Yes**	☐ **No**
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:		
Name:	**Phone Number:**	
Were USTs previously removed from the ground at this facility?	☒ **Yes**	☐ **No**
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):		
Name: You have all that information.	**Phone Number:** I do not.	
Is the facility currently leased to someone?	☒ **Yes**	☐ **No**
*If yes, notify them of the pending work scope, and please provide their name/contact number:		
Name: Homestead Lawn & Landscape	**Phone Number:** 864-884-4897	

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of Property Owner (Print):	F. Andrew Mitchell	
Signature of Property Owner or authorized representative:	F. Andrew Mitchell	**Date** 5/16/53
Affiliation (if applicable)		
Signature of Witness	Karen K. Mitchell	**Date** 5/16/53

Contact Info

Phone Numbers:	**Home:**	**Cell:** 864-884-0937
Email Address:	amitch2639@gmail.com	

dhec
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11929

OCT 06 2021

UST 52 DOCKETING

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Site Specific Work Plan Request
Groundwater Sampling Contract
Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-7705 or email wykeljm@dhec.sc.gov.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Field Support Section
UST Management Division
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)
Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)
Technical File (w/o Enc)

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-898-2544

MEMORANDUM

TO: Statelead Groundwater Sampling Contractor

FROM: Morgan Thomas

RE: Site Specific Work Plan Request

Facility Name: Former Ryder Terminal Contractor CA# 64472

Permit Number: 11929 PACE CA #: 64473

County: Greenville RBCA CLASS: 2BA

List Monitoring Wells to be Sampled Purging Method Non-Bracketing Only

Shallow MW-1, MW-2, MW-3R, MW-4 through MW-18

Deep MW-2D

Intermediate

Surface Water Points to be Sampled (MUST BE ON MAP PROVIDED)

N/A

WSW Points to be Sampled (MUST BE ON MAP PROVIDED CONTACT INFO w TAX MAP INFO)

N/A

Sample Below Product NO

Additional Potentiometric Maps Requested - See Below (Note: Shallow & Deep Included)

Isopleth Maps requested instead of CoC Map (Only for CoCs >RBSL or SSTL)

N/A

Other: Please contact Andy Mitchell at (864) 884-4897 before mobilizing to property.

Total Groundwater Sample Points: 19

Analysis Being Requested: K. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B), K7. EDB by EPA 8011

Total Water Supply Well Points: 0

Analysis Being Requested:

Morgan

Midlands Environmental Consultants, Inc.

November 1, 2021

UST 53 Geeh DOCKETING

RECEIVED
NOV 03 2021
UST DIVISION

Mr. Matt Wykel, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
Former Ryder Terminal
Greenville, South Carolina
SCDHEC Site ID Number 11929
MECI Project Number 21-7721
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Wykel,

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

On October 25, 2021, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

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

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

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

To: Ms. Morgan Thomas (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Former Ryder Terminal UST Permit #: 11929
Facility Address: 10 Woods Lake Drive, Greenville, SC 29607
Responsible Party: Auten Ingrid Lloyd Phone: 864-859-7800
RP Address: 4925 Coach hill Drive, Greenville, SC 29615
Property Owner (if different): Wheeler Properties LLC
Property Owner Address: 1341 Rutherford Road, Greenville, SC 29609
Current Use of Property: Homestead Landscaping

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 (8260D)
- ☑ Oxygenates (8260D)
- ☑ EDB (8011)
- ☐ PAH (8270E)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260D)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

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

Air:

- ☐ BTEXN

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

____ Soil	____ Water Supply Wells	____ Air	1 Field Blank
18 Monitoring Wells	1 Surface Water	1 Duplicate	1 Trip Blank

Field Screening Methodology

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

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

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

# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

_____

_____

UST Permit #: 11929 Facility Name: Former Ryder Terminal

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 11/1/2021 Field Work Completion: 12/1/2021
Report Submittal: 1/1/2022 # of Copies Provided to Property Owners: _____

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

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 200.0 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, monitoring wells MW-1, MW-9, and MW-15 were not located. MECI will send extra personnel in order to find and sample all wells. All other wells were located. Monitoring well MW-4 is in need of a well lid.
-Samples will be analyzed for BTEXNM, 1-2 DCA, Oxys (8260D) and EDB (8011).
-Only non-bracketing monitoring wells will be purged prior to sample collection.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
____ Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

____ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
Healthy People. Healthy Communities.

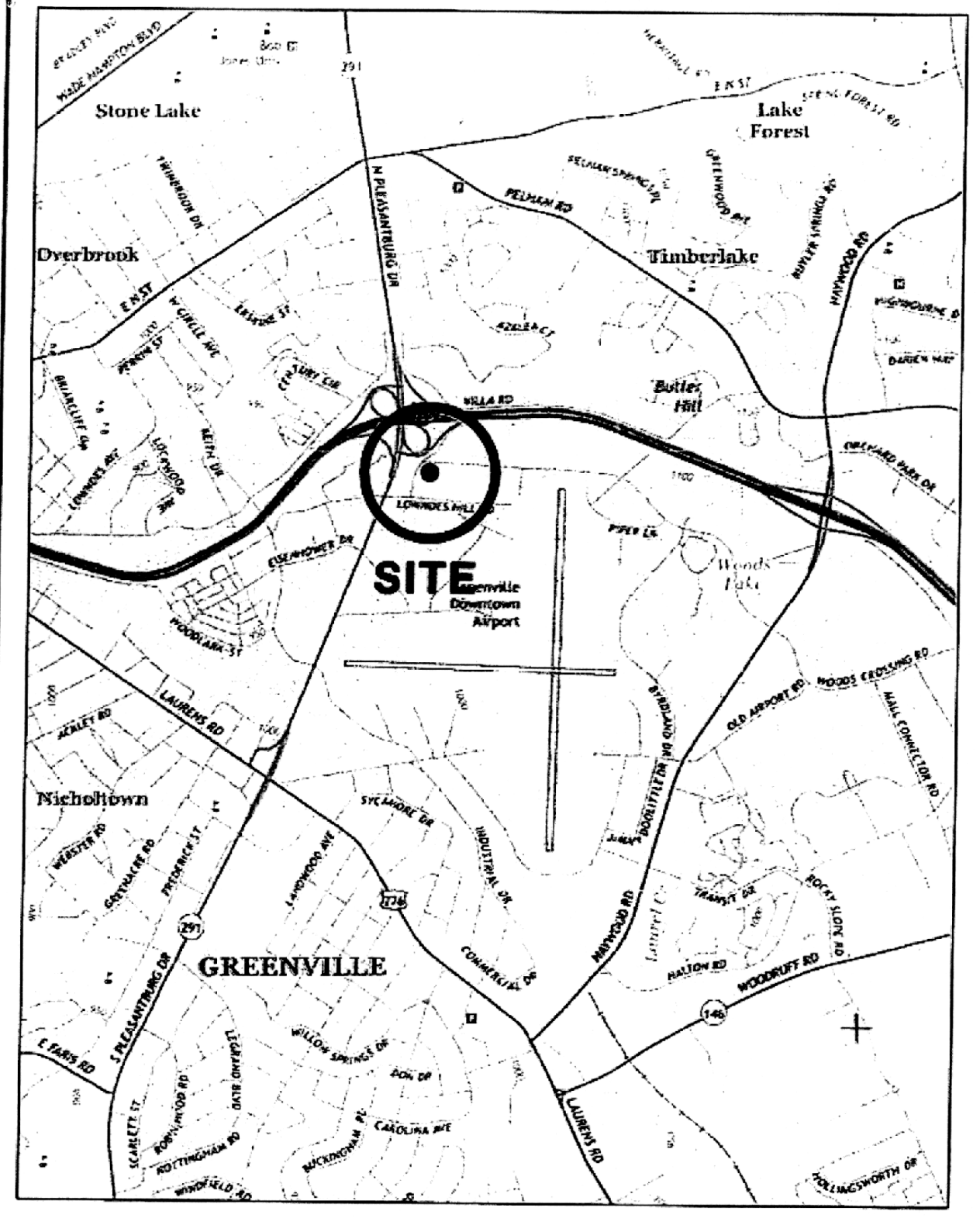
ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO # 4600830568

Facility Name: Former Ryder Terminal

UST Permit #: 11929 Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1. Site Specific Work Plan	1	each	$425.00		$425.00
2. Tax Map		each	$50.00		$0.00
B. Receptor Survey		each	$50.00		$0.00
D. Mob/Demob					
2. Personnel	1	each	$610.00		$610.00
J. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**					
1. Groundwater Purge	1	per well	$10.00		$10.00
2. Air or Vapors		per sample	$1.00		$0.00
3. Water Supply Sample		per sample	$40.00		$0.00
4. Groundwater No Purge/Surface Water	18	per sample	$8.00		$144.00
R-1. HydraSleeve		per sample	$23.00		$0.00
5. Gauge Well only		per data point	$1.00		$0.00
6. Sample Below Product		per well	$1.80		$0.00
7. Passive Diffusion Bag		per well	$25.00		$0.00
9. Groundwater (low flow purge)		per well	$25.00		$0.00
10. Equipment Blank		per day	$10.00		$0.00
Q. **Disposal (gallons or tons)**					
1. Wastewater	200	per gallon	$0.33		$66.00
2. Free Product		per gallon	$0.05		$0.00
R. **Miscellaneous**					
2. Additional Potentiometric Map		each above required two	$10.00		$0.00
3. Isopleth Map		each above required one	$50.00		$0.00
4. Data Table		per data set	$100.00		$0.00
5. Redraw/Digitize Site Map		each	$150.00		$0.00
6.Replace Well Lid	1	each	$10.00		$10.00
Y. **Well Repair**					
1. Additional Copies of Report Delivered		per copy	$10.00		$0.00
5. Replace well cover bolts		each	$6.00		$0.00
6. Replace locking well cap & lock		each	$10.00		$0.00
10. Replace missing/illegible well ID plate		each	$10.00		$0.00
Subtotal					**$1,265.00**
S. Report Preparation/Project Coordination		Percent of Subtotal	0%		
TOTAL					**$1,265.00**

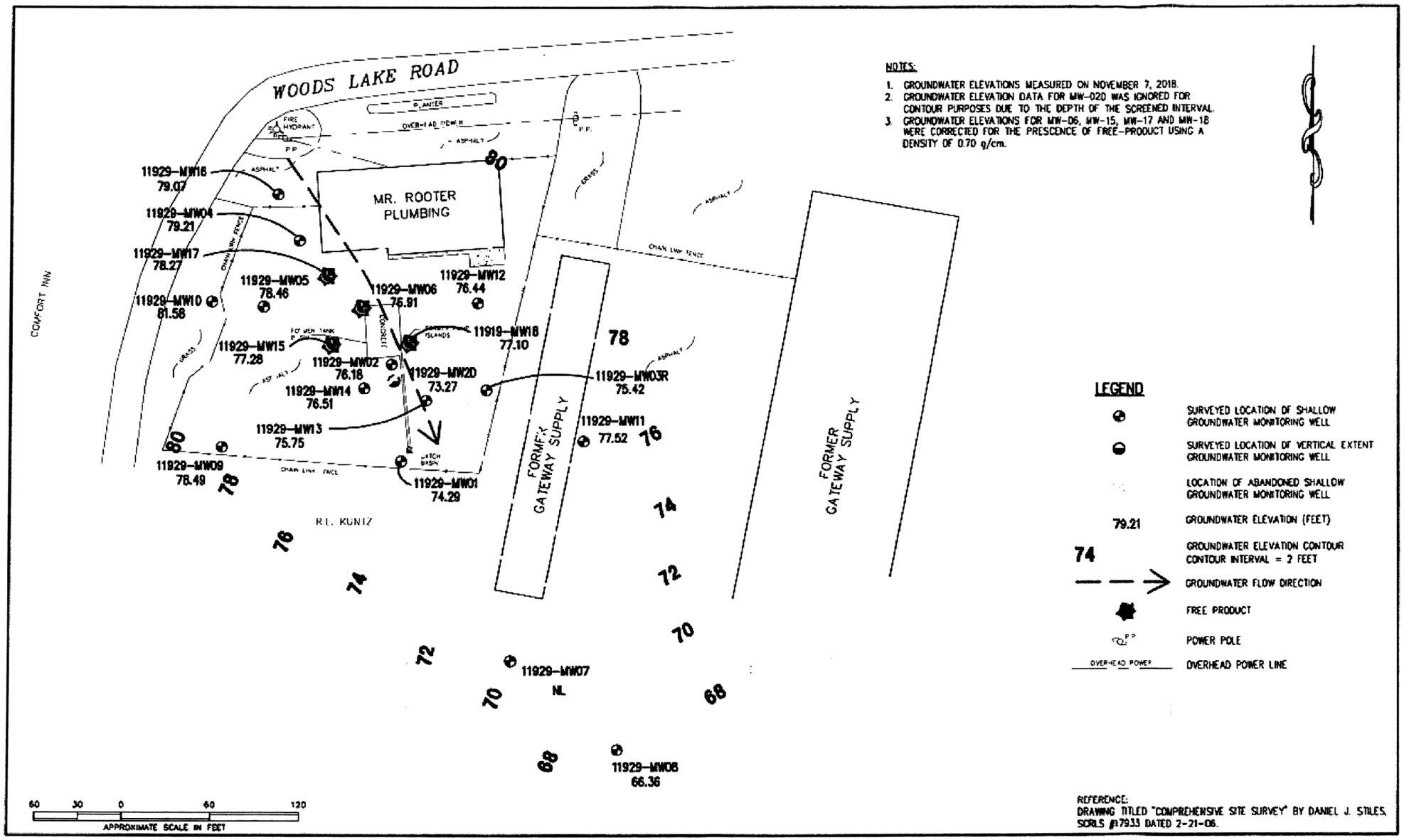


2000 1000 0 2000 4000

APPROXIMATE SCALE IN FEET

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 8-6-18	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED: TJB	CAD: FORMERRTT-24SLM	6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430	1
APPROVED:	JOB NO: J18-1010-24	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA	



NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON NOVEMBER 7, 2018.
2. GROUNDWATER ELEVATION DATA FOR MW-02D WAS IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. GROUNDWATER ELEVATIONS FOR MW-06, MW-15, MW-17 AND MW-18 WERE CORRECTED FOR THE PRESCENCE OF FREE-PRODUCT USING A DENSITY OF 0.70 g/cm.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 79.21 — GROUNDWATER ELEVATION (FEET)
- 74 — GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- FREE PRODUCT
- POWER POLE
- OVERHEAD POWER — OVERHEAD POWER LINE

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY: ACE	DATE: 11-29-18	REVISIONS			BUNNELL LAMMONS ENGINEERING 6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4438	GROUNDWATER ELEVATION CONTOUR MAP - NOVEMBER 2018 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 10 WOODS LAKE ROAD GREENVILLE, SOUTH CAROLINA	FIGURE 2
CHECKED BY: TJB	FILE: FORMERRTT-24FWTM	No.	DESCRIPTION	BY			
APPROVED BY:	JOB NO: J18-1010-24						

dhec
Healthy People. Healthy Communities.

NOV 24 2021

UST 54T DOCKETING

MR BRYAN SHANE PG
MIDLANDS ENVIRONMENTAL CONSULTANTS
PO BOX 854
LEXINGTON SC 29071

Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval
Groundwater Sampling Contract
Solicitation #IFB-5400021335, PO #4600830568
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929; MECI CA #64472; Pace CA #64473
Greenville County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed.** The final report is to be submitted to the contract manager.

If you have any site-specific questions, please contact me by email thomasma@dhec.sc.gov or phone (803) 898-2889. If you have any contract specific questions, please contact Matt Wykel by email wykeljm@dhec.sc.gov or phone (803) 898-7705.

Sincerely,

Morgan Thomas

Morgan Thomas, Hydrogeologist
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)
Technical File (w/ Enc)

Approved Cost Agreement 64473

Facility: 11929 FORMER RYDER TERMINAL
THOMASMA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22.0000	$26.000	572.00
		7	EDB BY EPA 8011	21.0000	$22.000	462.00
				Total Amount		1,034.00

Approved Cost Agreement 64472

Facility: 11929 FORMER RYDER TERMINAL
THOMASMA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1	SITE SPECIFIC WORK PLAN	1.0000	$425.000	425.00
D MOB/DEMOB						
		2	PERSONNEL	1.0000	$610.000	610.00
J SAMPLE COLLECTION						
		1	GROUND WATER PURGE	1.0000	$10.000	10.00
		4	GROUNDWATER NO-PURGE/DUPL/GRAB	18.0000	$8.000	144.00
Q DISPOSAL						
		1	WASTEWATER	200.0000	$0.330	66.00
R MISCELLANEOUS						
		R-6	REPLACE WELL LID	1.0000	$10.000	10.00
				Total Amount		1,265.00

MONITORING REPORT

Former Ryder Terminal
10 Woods Lake Drive
Greenville, South Carolina
Greenville County
UST Permit# 11929; CA# 64472
Solicitation# IFB-5400021335; PO# 4600830568

Prepared By:

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

January 12, 2022

MECI Project No. 21-7721

Midlands Environmental Consultants, Inc.

January 12, 2022

Mr. Arthur Brown, Hydrogeologist
Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling
Former Ryder Terminal
Greenville, South Carolina
Greenville County
UST Permit# 11929; CA# 64472
MECI Project Number 21-7721
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Brown,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

COLIN PHILLIPS REGISTERED No. 2811 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Colin M. Phillips, P.G.
Senior Hydrogeologist

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

TABLE OF CONTENTS

TABLE OF CONTENTS (cont.)

**Not Applicable for Report

1.0 INTRODUCTION

i. Facility Information

Name: Former Ryder Terminal
Address: 10 Woods Lake Drive, Greenville, SC 29607
Telephone #: N/A

ii. Owner/Operator Information

Name: Llyod D. Auten
Address: 4925 Coach Hill Drive, Greenville, SC 29615
Telephone #: (864) 859-7800

iii. Property Owner Information

Name: Mitchell F. Andrew
Tax Map #: Greenville County Tax Map #: 0282000100500
Address: 101 Chelsea Lane, Greer, SC 29650
Telephone #: (864) 884-0937

iv. Contractor Information

Name: Midlands Environmental Consultants, Inc.
Certification #: 9
Address: P.O. Box 854, Lexington, SC 29071
Telephone #: (803) 808-2043

v. Facility History

Release Date:		2/25/1997	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		N/A	
Release Ranking:		2BA	
Current Site Usage:		Homestead Landscaping Company	
Tank #	**Capacity/Product**	**In Use/Abandoned**	**Tank Status**
1	20,000 Gal. Diesel	Abandoned	Removed (5/1/1989)
2	5,000 Gal. Diesel	Abandoned	Removed (5/1/1989)
3	6,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)
4	5,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)
5	550 Gal. Heating Oil	Abandoned	Removed (5/1/1989)

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
N/A	N/A

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Commercial
North	Commercial
South	Commercial
East	Commercial
West	Commercial
Permit #'s of UST Sites within 1,000' feet of site	04355, 04465, 19686 & 04252

3.0 SAMPLING AND CHEMICAL ANALYSES

On January 4, 2022, MECI personnel collected groundwater samples from fourteen (14) monitoring wells at the subject site. Four (4) monitoring wells (MW-1, MW-6, MW-15 & MW-17) was gauged during sampling activities. Monitoring MW-1 was found to be heavily damaged and the casing is severely bent and unable to be sampled. Monitoring wells MW-16, MW-15 and MW-17 were gauged and determined to contain measurable free phase petroleum product. Based on a request from SCDHEC, only monitoring wells which did not bracket the watertable were to be purged prior to sample collection. Two (2) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

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

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

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1			X										
MW-2		X					X	X	X				
MW-2D	X						X	X	X				
MW-3R		X					X	X	X				
MW-4		X					X	X	X				
MW-5		X					X	X	X				

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

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-6			X										
MW-7		X					X	X	X				
MW-8		X					X	X	X				
MW-9		X					X	X	X				
MW-10		X					X	X	X				
MW-11		X					X	X	X				
MW-12		X					X	X	X				
MW-13		X					X	X	X				
MW-14		X					X	X	X				
MW-15			X										
MW-16	X						X	X	X				
MW-17			X										
MW-18		X					X	X	X				
DUP.							X	X	X				
Field Blank							X	X	X				
Trip Blank							X	X					

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

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 32.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is to the southeast toward drainage features associated with the Laurel Creek.

- Free phase petroleum product was detected in monitoring wells MW-6, MW-15 and MW-17. Groundwater water samples were not collected beneath the product layer during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in MW-13 and MW-18. Of the fourteen sampling locations analyzed, four samples (MW-2, MW-4, MW-13 and MW-18) detected petroleum constituents above Risked Based Screening Levels (RBSL's).

- Petroleum constituents detected above the established RBSL include:

Compound	***RBSL/SCAL (ug/l)***	***Wells Above RBSL***
Product	0.01'	MW-6, MW-15 & MW-17
Benzene	5	MW-2, MW-13 & MW-18
Toluene	1,000	N/A
Ethylbenzene	700	N/A
Total Xylenes	10,000	N/A
Naphthalene	25	MW-2, MW-4, MW-13 & MW-18
MTBE	40	N/A
1,2 DCA	5	N/A
EDB	0.05	MW-13
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	MW-3
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples from MW-3R. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

Table # 1

Summary of Analytical Results - Water Samples

Former Ryder Terminal

Facility ID# 11929

Analytical Method		EPA 8011	EPA 8260D															
Sample ID	**Constituent of Concern**	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP	01/04/2022	<0.0073	<2.1	<53.9	1.9 J	<3.5	<144	<8.5	<1.8	<3.1	11.0	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
FB	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	01/04/2022	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-11	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-12	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-13	01/04/2022	**0.057**	<4.1	<108	**18.3**	<7.0	<288	<16.9	<3.7	<6.2	**219**	<4.0	61.2	12.4 J	48.8	<131	<6.1	<182	<48.2
MW-14	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	3.1 J	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-16	01/04/2022	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-18	01/04/2022	<0.0070	<2.1	<53.9	**76.4**	<3.5	<144	<8.5	5.6	<3.1	**191**	<2.0	19.6	7.1 J	12.5	<65.6	<3.0	<91.0	<24.1
MW-2	01/04/2022	<0.0072	<2.1	<53.9	**25.5**	<3.5	<144	<8.5	<1.8	<3.1	**110**	<2.0	<5.0	<4.1	5.0 J	<65.6	<3.0	<91.0	<24.1
MW-2D	01/04/2022	<0.0071	<2.1	<53.9	2.3 J	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-3R	01/04/2022	<0.0071	<2.1	<53.9	2.0 J	<3.5	<144	<8.5	<1.8	<3.1	11.6	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-4	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	**68.8**	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-5	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-7	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
TB	01/04/2022	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:

ND = Not Detected

ft. BGS = feet below ground surface

mg/L = milligrams per liter

ug/L = micrograms per liter

Bold data above the RBSL (Risk Based Screening Level)

Table 2
Site Activity Summary

UST Permit #: 11929
Facility Name: Former Ryder Terminal
County: Greenville
Field Personnel: S. Sprott, T. Adorno

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-1	N	1/4/22	NS	21-31	***	NS	***	100.70	NS	NS	0.00	Stick-Up Well is damaged and casing is bent/Unable to Sample Well
MW-2	Y	1/4/22	13:55	20-30	***	24.44	***	100.10	75.66	1.54	0.00	Odor
MW-2D	Y	1/4/22	13:27	50-55	***	26.74	***	99.29	72.55	4.67	23.50	Slight Odor
MW-3R	Y	1/4/22	12:48	22-32	***	23.17	***	99.00	75.83	1.95	0.00	Strong Odor/Replaced Well Lid; however, unable to bolt down properly/Well needs new vault
MW-4	Y	1/4/22	11:18	20-30	***	24.04	***	102.67	78.63	1.93	0.00	Odor
MW-5	Y	1/4/22	11:55	19-29	***	24.27	***	101.48	77.21	1.61	0.00	No Odor
MW-6	N	1/4/22	FPP	19-29	23.48	24.80	1.32	101.74	78.06	FPP	0.00	FPP = Free Phase Product Detected
MW-7	Y	1/4/22	10:34	23-33	***	26.28	***	92.67	66.39	3.28	0.00	No Odor
MW-8	Y	1/4/22	10:44	23-33	***	22.75	***	88.76	66.01	3.01	0.00	No Odor
MW-9	Y	1/4/22	12:06	20-30	***	24.98	***	102.26	77.28	3.79	0.00	No Odor
MW-10	Y	1/4/22	11:50	20-30	***	24.55	***	104.67	80.12	3.30	0.00	No Odor
MW-11	Y	1/4/22	10:28	20-30	***	23.29	***	100.66	77.37	2.98	0.00	No Odor
MW-12	Y	1/4/22	12:14	20-30	***	24.79	***	101.38	76.59	1.80	0.00	No Odor
MW-13	Y	1/4/22	13:46	23-33	***	23.40	***	98.62	75.22	1.23	0.00	No Odor
MW-14	Y	1/4/22	12:32	22-32	***	23.49	***	99.30	75.81	1.88	0.00	No Odor
											23.50	**TOTAL GALLONS PURGED**

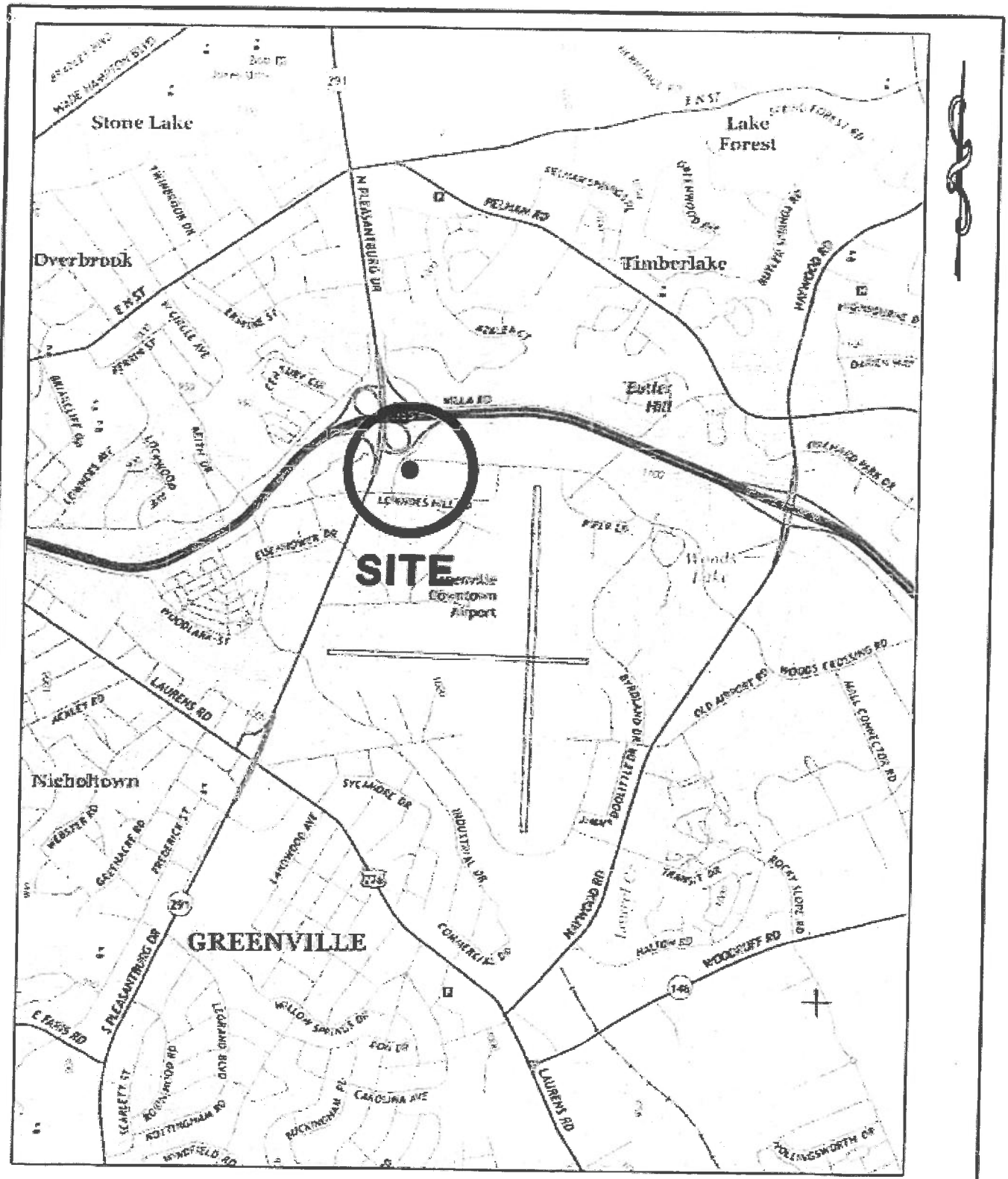
Table 2
Site Activity Summary

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

UST Permit #: 11929
Facility Name: Former Ryder Terminal
County: Greenville
Field Personnel: S. Sprott, T. Adorno

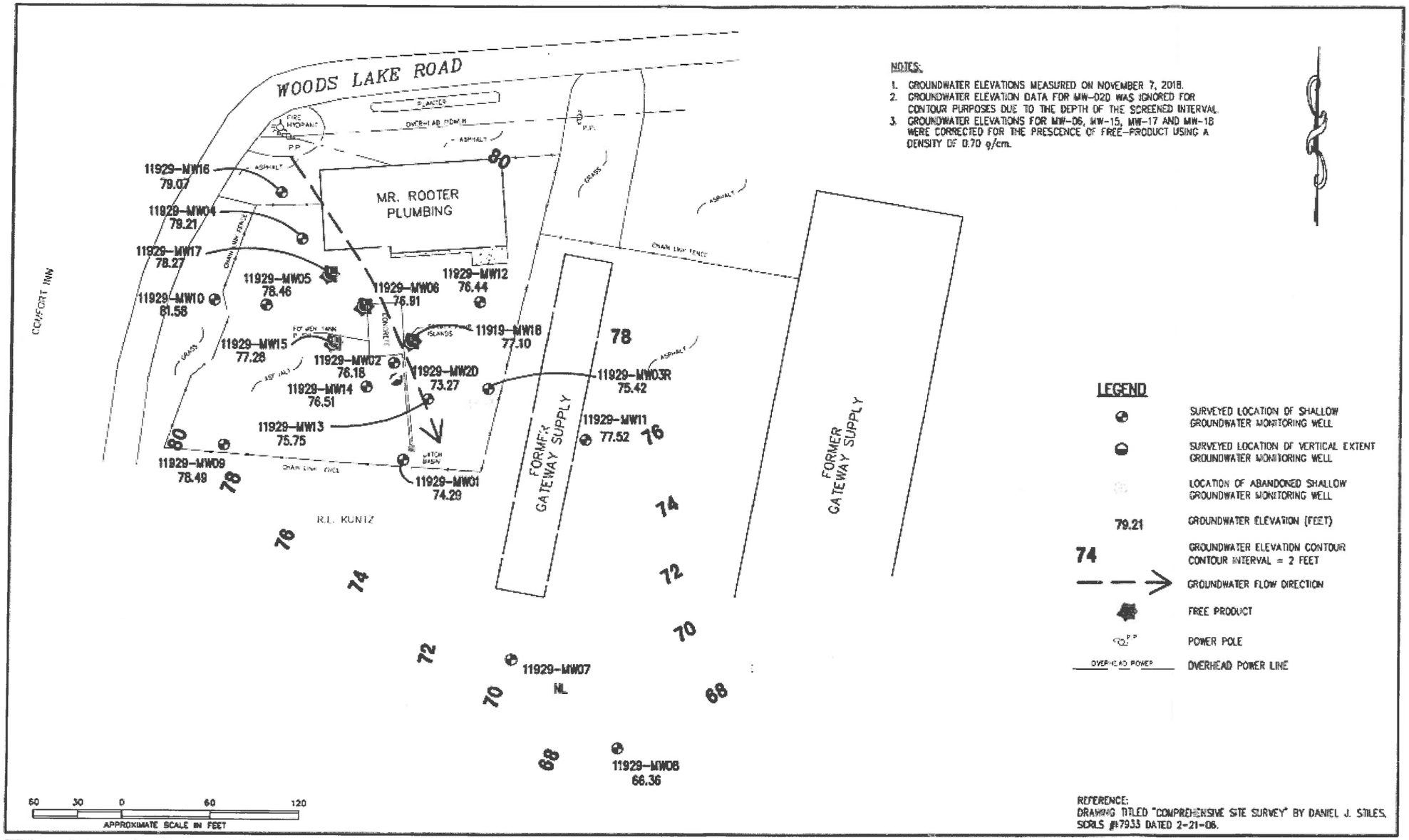
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-15	N	1/4/22	FPP	23-33	23.90	24.07	0.17	100.39	76.46	FPP	0.00	FPP = Free Phase Product Detected
MW-16	Y	1/4/22	11:40	24-34	***	23.45	***	102.74	79.29	4.16	9.00	Slight Odor
MW-17	N	1/4/22	FPP	25-35	23.80	24.21	0.41	102.09	78.23	FPP	0.00	FPP = Free Phase Product Detected
MW-18	Y	1/4/22	14:03	25-35	***	25.13	***	100.39	75.26	1.40	0.00	Odor
DUP	Y	1/4/22	12:48	***	***	***	***	***	***	***	***	Duplicate of MW-3R
Field Blank	Y	1/4/22	14:15	***	***	***	***	***	***	***	***	Field Blank
Trip Blank	Y	1/4/22	8:00	***	***	***	***	***	***	***	***	Trip Blank
											9.00	**TOTAL GALLONS PURGED**

FIGURES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 2014.

DRAWN: ACE	DATE: 8-6-18	BUNNELL LAMMONS ENGINEERING	FIGURE
CHECKED: TJB	CAD: FORMERRTT-24SLM	6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 289-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
APPROVED:	JOB NO: J18-1010-24		1



NOTES:

1. GROUNDWATER ELEVATIONS MEASURED ON NOVEMBER 7, 2018.
2. GROUNDWATER ELEVATION DATA FOR MW-02D WAS IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. GROUNDWATER ELEVATIONS FOR MW-06, MW-15, MW-17 AND MW-18 WERE CORRECTED FOR THE PRESCENCE OF FREE-PRODUCT USING A DENSITY OF 0.70 g/cm.

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
- LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
- 79.21 GROUNDWATER ELEVATION (FEET)
- 74 GROUNDWATER ELEVATION CONTOUR CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION
- FREE PRODUCT
- POWER POLE
- OVERHEAD POWER LINE

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY: ACE	DATE: 11-29-18	REVISIONS	
CHECKED BY: TJS	FILE: FORMERRTT-24FWTM	No.	DESCRIPTION / BY
APPROVED BY:	JOB NO: J18-1010-24		

BLE BUNNELL LAMMONS ENGINEERING
6304 Ponders Court, Greenville, SC 29615
Phone: (864) 288-1265 Fax: (864) 288-4488

GROUNDWATER ELEVATION CONTOUR MAP - NOVEMBER 2018
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE 2

Provided map is not legible enough for reproduction. Maps should be redigitized in future or more legible map should be located for future site work.

APPENDIX A:

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

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: SS, TA

Sampling Date(s): 1/4/2022

Sampling Case#: 2

Job Name: Fmr. Ryder Terminal

Job Number: 21-7721

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: **Conductivity Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-1	Initial										21 - 31				Stick-Up well Damaged (Bent) unable to sample
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-2	Initial	13:55	5.40	173.9	20.2	1.54	19.01		24.44		20 - 30	-	-	-	Odor
	1st												-		
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-2D ~~DUP~~	Initial	12:53	7.59	130.4	18.9	4.67	16.27		26.74		50 - 55	28.26	4.61	23.5	Slight Odor
	1st	12:57	5.56	129.4	19.5	1.45	42.09								
	2nd	13:06	5.37	122.6	19.5	3.26	45.13								
	3rd	13:13	5.67	123.2	19.5	1.83	39.56								
	4th	13:19	5.63	121.9	19.5	2.14	35.19								
	5th	13:27	5.68	118.9	18.8	2.25	30.77						23.03		
	Sampling														
MW-3R ~~DUP~~	Initial	12:48	5.45	132.6	17.6	1.95	33.95		23.17		22 - 32	-	-	Lid Replaced unable to bolt down	Strong Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling												-		DUP

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: SS, TA

Sampling Date(s): 1/4/2022

Sampling Case#: 2

Job Name: Fmr. Ryder Terminal

Job Number: 21-7721

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-4	Initial	11:18	6.59	167.5	19.0	1.93	23.95		24.04		20 - 30	-	-	-	Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling												-		
MW-5	Initial	11:55	4.81	57.7	20.4	1.61	29.04		24.27		19 - 29	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling												-		
MW-6	Initial							23.48	24.80		19 - 29				FPP
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														DNS
MW-7	Initial	10:34	4.47	76.5	18.7	3.28	16.40		26.28		23 - 33	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling												-		

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
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4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
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Midlands Environmental Consultants, Inc.

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Sampling Case#: 2

Job Name: Fmr. Ryder Terminal

Job Number: 21-7721

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-8	Initial	10:44	4.42	43.7	20.4	3.01	25.88		22.75		20 - 30	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-9	Initial	12:06	4.33	34.8	17.8	3.79	28.40		24.98		20 - 30	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-10	Initial	11:50	4.29	42.7	20.0	3.30	27.03		24.55		20 - 30	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-11	Initial	10:28	6.04	113.8	17.6	2.98	26.17		23.29		20 - 30	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells,** or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: SS, TA

Sampling Date(s): 1/4/2022

Sampling Case#: 2

Job Name: Fmr. Ryder Terminal

Job Number: 21-7721

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-12	Initial	12:14	5.12	239.4	19.0	1.80	26.17		24.79		20 - 30	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-13	Initial	13:46	5.55	168.0	19.7	1.23	27.56		23.40		23 - 33	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-14	Initial	12:32	5.60	68.2	19.9	1.88	32.68		23.49		22 - 32	-	-	-	No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-15	Initial							23.90	24.07		23 - 33				FPP DNS
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

Field Personnel: SS, TA

Sampling Date(s): 1/4/2022

Sampling Case#: 2

Job Name: Fmr. Ryder Terminal

Job Number: 21-7721

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: (Yes) No

Conductivity: (Yes) No

Dissolved Oxygen: (Yes) No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet): product	Depth to (feet): initial H_2O	Depth to (feet): final H_2O	Well Depth (feet)	Water Height *(feet)	Gallons Purged **calc.	Gallons Purged actual	Notes
MW-16	Initial	11:23	5.69	171.6	16.8	4.16	20.11		23.45		24 - 34	10.55	1.72	9	Slight Odor
	1st	11:25	5.13	92.6	19.8	3.51	60.58								
	2nd	11:28	4.84	84.3	20.2	3.32	73.90								
	3rd	11:32	4.80	80.1	20.3	3.24	65.39								
	4th	11:36	4.75	80.8	20.2	3.10	67.40								
	5th	11:40	4.68	78.0	20.2	3.06	51.87						8.60		
	Sampling														
MW-17	Initial							23.80	24.21		25 - 35				FPP DNS
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-18	Initial	14:03	5.76	302.8	18.2	1.40	34.26		25.13		25 - 35	-	-	-	Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
DUP	Initial	12:48	MW-3R Strong odor					MECI	GAC		14.17				
FB	1st														
	2nd	14:15													
TB	3rd														
	4th														
	5th	8:06													
	Sampling														

*= (Depth of Well) - (Depth to Water = **Water Height**

One Well Volume =x.047 for 1" wells * x **.163 for 2" wells**, or * x **.66 for 4" wells**, 1.469 for 6" wells

= One Well Volume x 5 = **Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

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

January 12, 2022

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.
Matt Wykel, SCDHEC

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CERTIFICATIONS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
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 Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92581222001	**MW-2**	Water	01/04/22 13:55	01/05/22 11:10
92581222002	**MW-2D**	Water	01/04/22 13:27	01/05/22 11:10
92581222003	**MW-3R**	Water	01/04/22 12:48	01/05/22 11:10
92581222004	**MW-4**	Water	01/04/22 11:18	01/05/22 11:10
92581222005	**MW-5**	Water	01/04/22 11:55	01/05/22 11:10
92581222006	**MW-7**	Water	01/04/22 10:34	01/05/22 11:10
92581222007	**MW-8**	Water	01/04/22 10:44	01/05/22 11:10
92581222008	**MW-9**	Water	01/04/22 12:06	01/05/22 11:10
92581222009	**MW-10**	Water	01/04/22 11:50	01/05/22 11:10
92581222010	**MW-11**	Water	01/04/22 10:28	01/05/22 11:10
92581222011	**MW-12**	Water	01/04/22 12:14	01/05/22 11:10
92581222012	**MW-13**	Water	01/04/22 13:46	01/05/22 11:10
92581222013	**MW-14**	Water	01/04/22 12:32	01/05/22 11:10
92581222014	**MW-16**	Water	01/04/22 11:40	01/05/22 11:10
92581222015	**MW-18**	Water	01/04/22 14:03	01/05/22 11:10
92581222016	**DUP**	Water	01/04/22 00:00	01/05/22 11:10
92581222017	**FB**	Water	01/04/22 14:15	01/05/22 11:10
92581222018	**TB**	Water	01/04/22 08:00	01/05/22 11:10

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SAMPLE ANALYTE COUNT

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92581222001	**MW-2**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222002	**MW-2D**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222003	**MW-3R**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222004	**MW-4**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222005	**MW-5**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222006	**MW-7**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222007	**MW-8**	EPA 8011	HH	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92581222008	**MW-9**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222009	**MW-10**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222010	**MW-11**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222011	**MW-12**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222012	**MW-13**	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92581222013	**MW-14**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222014	**MW-16**	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92581222015	**MW-18**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222016	**DUP**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222017	**FB**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222018	**TB**	EPA 8260D	NSCQ	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

SUMMARY OF DETECTION

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92581222001	**MW-2**					
EPA 8260D	Benzene	25.5	ug/L	5.0	01/06/22 21:23	
EPA 8260D	Naphthalene	110	ug/L	5.0	01/06/22 21:23	M1
EPA 8260D	o-Xylene	5.0J	ug/L	5.0	01/06/22 21:23	
92581222002	**MW-2D**					
EPA 8260D	Benzene	2.3J	ug/L	5.0	01/06/22 21:05	
92581222003	**MW-3R**					
EPA 8260D	Benzene	2.0J	ug/L	5.0	01/07/22 07:39	C8
EPA 8260D	Naphthalene	11.6	ug/L	5.0	01/07/22 07:39	
92581222004	**MW-4**					
EPA 8260D	Naphthalene	68.8	ug/L	5.0	01/07/22 07:03	
92581222012	**MW-13**					
EPA 8011	1,2-Dibromoethane (EDB)	0.057	ug/L	0.020	01/07/22 19:01	
EPA 8260D	Benzene	18.3	ug/L	10.0	01/10/22 19:36	
EPA 8260D	Naphthalene	219	ug/L	10.0	01/10/22 19:36	
EPA 8260D	Xylene (Total)	61.2	ug/L	10.0	01/10/22 19:36	
EPA 8260D	m&p-Xylene	12.4J	ug/L	20.0	01/10/22 19:36	
EPA 8260D	o-Xylene	48.8	ug/L	10.0	01/10/22 19:36	
92581222013	**MW-14**					
EPA 8260D	Ethylbenzene	3.1J	ug/L	5.0	01/07/22 07:57	
92581222015	**MW-18**					
EPA 8260D	Benzene	76.4	ug/L	5.0	01/07/22 08:34	
EPA 8260D	Ethylbenzene	5.6	ug/L	5.0	01/07/22 08:34	
EPA 8260D	Naphthalene	191	ug/L	5.0	01/07/22 08:34	
EPA 8260D	Xylene (Total)	19.6	ug/L	5.0	01/07/22 08:34	
EPA 8260D	m&p-Xylene	7.1J	ug/L	10.0	01/07/22 08:34	
EPA 8260D	o-Xylene	12.5	ug/L	5.0	01/07/22 08:34	
92581222016	**DUP**					
EPA 8260D	Benzene	1.9J	ug/L	5.0	01/07/22 10:23	
EPA 8260D	Naphthalene	11.0	ug/L	5.0	01/07/22 10:23	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: SCDHEC
Date: January 12, 2022

General Information:
17 samples were analyzed for EPA 8011 by Pace Analytical Services Charlotte. 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.

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: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: January 12, 2022

General Information:
18 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. 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.

QC Batch: 670825

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- MS (Lab ID: 3512569)
  - tert-Butyl Formate
- MSD (Lab ID: 3512570)
  - tert-Butyl Formate

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: 670148

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581222001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3508738)
  - Naphthalene

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PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: January 12, 2022

QC Batch: 670191

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581242001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3509077)
  - tert-Butyl Formate

QC Batch: 670203

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581258017

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3509159)
  - Benzene
  - Ethylbenzene
  - Naphthalene
  - Toluene
  - m&p-Xylene
  - o-Xylene
- MSD (Lab ID: 3509160)
  - Benzene
  - Ethylbenzene
  - Naphthalene
  - Toluene
  - m&p-Xylene
  - o-Xylene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3509160)
  - tert-Butyl Formate

QC Batch: 670825

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581711002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3512569)
  - Benzene
  - Methyl-tert-butyl ether
- MSD (Lab ID: 3512570)
  - Benzene
  - Methyl-tert-butyl ether

Additional Comments:

Analyte Comments:

QC Batch: 670191

C8: Result may be biased high due to carryover from previously analyzed sample.

- MW-3R (Lab ID: 92581222003)
  - Benzene

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PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Method: **EPA 8260D**
Description: 8260 MSV
Client: SCDHEC
Date: January 12, 2022

Analyte Comments:

QC Batch: 670825

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3512569)
  - Benzene
- MSD (Lab ID: 3512570)
  - Benzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-2 **Lab ID: 92581222001** Collected: 01/04/22 13:55 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0072	1	01/07/22 09:55	01/07/22 16:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	01/07/22 09:55	01/07/22 16:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/06/22 21:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/06/22 21:23	994-05-8	
Benzene	**25.5**	ug/L	5.0	1.7	1		01/06/22 21:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/06/22 21:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/06/22 21:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/06/22 21:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/06/22 21:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/06/22 21:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/06/22 21:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/06/22 21:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/06/22 21:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/06/22 21:23	1634-04-4	
Naphthalene	**110**	ug/L	5.0	2.1	1		01/06/22 21:23	91-20-3	M1
Toluene	ND	ug/L	5.0	2.0	1		01/06/22 21:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/06/22 21:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/06/22 21:23	179601-23-1	
o-Xylene	**5.0J**	ug/L	5.0	2.0	1		01/06/22 21:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/06/22 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/06/22 21:23	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/06/22 21:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-2D **Lab ID: 92581222002** Collected: 01/04/22 13:27 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 16:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	01/07/22 09:55	01/07/22 16:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/06/22 21:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/06/22 21:05	994-05-8	
Benzene	**2.3J**	ug/L	5.0	1.7	1		01/06/22 21:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/06/22 21:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/06/22 21:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/06/22 21:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/06/22 21:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/06/22 21:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/06/22 21:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/06/22 21:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/06/22 21:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/06/22 21:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/06/22 21:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/06/22 21:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/06/22 21:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/06/22 21:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/06/22 21:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		01/06/22 21:05	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/06/22 21:05	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/06/22 21:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-3R **Lab ID: 92581222003** Collected: 01/04/22 12:48 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 17:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	01/07/22 09:55	01/07/22 17:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:39	994-05-8	
Benzene	**2.0J**	ug/L	5.0	1.7	1		01/07/22 07:39	71-43-2	C8
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 07:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:39	1634-04-4	
Naphthalene	**11.6**	ug/L	5.0	2.1	1		01/07/22 07:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 07:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/07/22 07:39	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 07:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-4 **Lab ID: 92581222004** Collected: 01/04/22 11:18 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 17:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	01/07/22 09:55	01/07/22 17:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 07:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:03	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 07:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:03	1634-04-4	
Naphthalene	**68.8**	ug/L	5.0	2.1	1		01/07/22 07:03	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 07:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 07:03	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 07:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-5 **Lab ID: 92581222005** Collected: 01/04/22 11:55 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 17:47	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	01/07/22 09:55	01/07/22 17:47	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 12:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 12:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 12:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 12:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 12:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 12:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 12:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 12:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 12:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 12:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 12:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 12:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 12:30	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 12:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 12:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 12:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 12:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 12:30	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 12:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/07/22 12:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-7 **Lab ID: 92581222006** Collected: 01/04/22 10:34 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 17:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	01/07/22 09:55	01/07/22 17:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 11:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 11:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 11:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 11:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 11:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 11:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 11:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 11:53	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 11:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 11:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 11:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 11:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 11:53	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 11:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 11:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 11:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 11:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 11:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		01/07/22 11:53	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		01/07/22 11:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-8 **Lab ID: 92581222007** Collected: 01/04/22 10:44 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 18:08	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	01/07/22 09:55	01/07/22 18:08	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 07:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:40	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 07:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 07:40	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		01/07/22 07:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		01/07/22 07:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/07/22 07:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-9 **Lab ID: 92581222008** Collected: 01/04/22 12:06 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 18:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	01/07/22 09:55	01/07/22 18:19	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 11:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 11:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 11:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 11:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 11:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 11:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 11:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 11:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 11:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 11:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 11:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 11:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 11:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 11:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 11:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 11:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 11:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/07/22 11:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 11:17	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		01/07/22 11:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-10 **Lab ID: 92581222009** Collected: 01/04/22 11:50 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	01/07/22 09:55	01/07/22 18:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	01/07/22 09:55	01/07/22 18:30	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 12:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 12:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 12:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 12:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 12:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 12:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 12:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 12:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 12:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 12:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 12:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 12:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 12:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 12:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 12:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 12:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 12:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 12:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 12:12	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 12:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-11 **Lab ID: 92581222010** Collected: 01/04/22 10:28 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 18:40	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	01/07/22 09:55	01/07/22 18:40	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 09:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 09:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 09:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 09:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 09:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 09:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 09:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 09:10	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 09:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 09:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 09:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 09:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 09:10	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 09:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 09:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 09:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 09:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 09:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 09:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 09:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-12 **Lab ID: 92581222011** Collected: 01/04/22 12:14 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 18:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	01/07/22 09:55	01/07/22 18:51	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 11:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 11:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 11:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 11:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 11:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 11:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 11:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 11:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 11:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 11:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 11:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 11:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 11:35	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 11:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 11:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 11:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 11:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 11:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 11:35	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/07/22 11:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-13 **Lab ID: 92581222012** Collected: 01/04/22 13:46 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	**0.057**	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 19:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	01/07/22 09:55	01/07/22 19:01	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		01/10/22 19:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		01/10/22 19:36	994-05-8	
Benzene	**18.3**	ug/L	10.0	3.5	2		01/10/22 19:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		01/10/22 19:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		01/10/22 19:36	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		01/10/22 19:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		01/10/22 19:36	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		01/10/22 19:36	108-20-3	
Ethanol	ND	ug/L	400	288	2		01/10/22 19:36	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.7	2		01/10/22 19:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		01/10/22 19:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		01/10/22 19:36	1634-04-4	
Naphthalene	**219**	ug/L	10.0	4.2	2		01/10/22 19:36	91-20-3	
Toluene	ND	ug/L	10.0	4.0	2		01/10/22 19:36	108-88-3	
Xylene (Total)	**61.2**	ug/L	10.0	10.0	2		01/10/22 19:36	1330-20-7	
m&p-Xylene	**12.4J**	ug/L	20.0	8.2	2		01/10/22 19:36	179601-23-1	
o-Xylene	**48.8**	ug/L	10.0	4.1	2		01/10/22 19:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		01/10/22 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		2		01/10/22 19:36	17060-07-0	
Toluene-d8 (S)	104	%	70-130		2		01/10/22 19:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-14 **Lab ID: 92581222013** Collected: 01/04/22 12:32 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 19:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	122	%	60-140		1	01/07/22 09:55	01/07/22 19:12	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 07:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:57	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:57	64-17-5	
Ethylbenzene	**3.1J**	ug/L	5.0	1.8	1		01/07/22 07:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 07:57	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/07/22 07:57	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 07:57	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 07:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-16 **Lab ID: 92581222014** Collected: 01/04/22 11:40 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0069	1	01/07/22 09:55	01/07/22 19:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	01/07/22 09:55	01/07/22 19:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/10/22 16:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/10/22 16:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/10/22 16:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/10/22 16:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/10/22 16:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/10/22 16:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/10/22 16:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/10/22 16:37	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/10/22 16:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/10/22 16:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/10/22 16:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/10/22 16:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/10/22 16:37	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/10/22 16:37	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/10/22 16:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/10/22 16:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/10/22 16:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/10/22 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		01/10/22 16:37	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		01/10/22 16:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: MW-18 **Lab ID: 92581222015** Collected: 01/04/22 14:03 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 19:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	01/07/22 09:55	01/07/22 19:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 08:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 08:34	994-05-8	
Benzene	**76.4**	ug/L	5.0	1.7	1		01/07/22 08:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 08:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 08:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 08:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 08:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 08:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 08:34	64-17-5	
Ethylbenzene	**5.6**	ug/L	5.0	1.8	1		01/07/22 08:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 08:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 08:34	1634-04-4	
Naphthalene	**191**	ug/L	5.0	2.1	1		01/07/22 08:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 08:34	108-88-3	
Xylene (Total)	**19.6**	ug/L	5.0	5.0	1		01/07/22 08:34	1330-20-7	
m&p-Xylene	**7.1J**	ug/L	10.0	4.1	1		01/07/22 08:34	179601-23-1	
o-Xylene	**12.5**	ug/L	5.0	2.0	1		01/07/22 08:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 08:34	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 08:34	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/07/22 08:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: DUP **Lab ID: 92581222016** Collected: 01/04/22 00:00 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0073	1	01/07/22 09:55	01/07/22 19:44	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	01/07/22 09:55	01/07/22 19:44	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 10:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 10:23	994-05-8	
Benzene	**1.9J**	ug/L	5.0	1.7	1		01/07/22 10:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 10:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 10:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 10:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 10:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 10:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 10:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 10:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 10:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 10:23	1634-04-4	
Naphthalene	**11.0**	ug/L	5.0	2.1	1		01/07/22 10:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 10:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 10:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 10:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 10:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/07/22 10:23	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/07/22 10:23	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/07/22 10:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: FB **Lab ID: 92581222017** Collected: 01/04/22 14:15 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 19:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	01/07/22 09:55	01/07/22 19:54	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 03:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 03:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 03:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 03:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 03:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 03:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 03:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 03:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 03:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 03:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 03:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 03:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 03:43	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 03:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 03:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 03:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 03:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/07/22 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 03:43	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 03:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Sample: TB **Lab ID: 92581222018** Collected: 01/04/22 08:00 Received: 01/05/22 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/06/22 15:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/06/22 15:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/06/22 15:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/06/22 15:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/06/22 15:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/06/22 15:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/06/22 15:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/06/22 15:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/06/22 15:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/06/22 15:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/06/22 15:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/06/22 15:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/06/22 15:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/06/22 15:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/06/22 15:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/06/22 15:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/06/22 15:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/06/22 15:39	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		01/06/22 15:39	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/06/22 15:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

QC Batch: 670148
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92581222001, 92581222002, 92581222018

METHOD BLANK: 3508735 Matrix: Water
Associated Lab Samples: 92581222001, 92581222002, 92581222018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/06/22 15:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/06/22 15:02	
Benzene	ug/L	ND	5.0	1.7	01/06/22 15:02	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/06/22 15:02	
Ethanol	ug/L	ND	200	144	01/06/22 15:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/06/22 15:02	
Ethylbenzene	ug/L	ND	5.0	1.8	01/06/22 15:02	
m&p-Xylene	ug/L	ND	10.0	4.1	01/06/22 15:02	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/06/22 15:02	
Naphthalene	ug/L	ND	5.0	2.1	01/06/22 15:02	
o-Xylene	ug/L	ND	5.0	2.0	01/06/22 15:02	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/06/22 15:02	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/06/22 15:02	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/06/22 15:02	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/06/22 15:02	
Toluene	ug/L	ND	5.0	2.0	01/06/22 15:02	
Xylene (Total)	ug/L	ND	5.0	5.0	01/06/22 15:02	
1,2-Dichloroethane-d4 (S)	%	108	70-130		01/06/22 15:02	
4-Bromofluorobenzene (S)	%	102	70-130		01/06/22 15:02	
Toluene-d8 (S)	%	103	70-130		01/06/22 15:02	

LABORATORY CONTROL SAMPLE: 3508736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.2	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	49.9	100	70-130	
Diisopropyl ether	ug/L	50	52.9	106	70-130	
Ethanol	ug/L	2000	2300	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.9	108	70-130	
Naphthalene	ug/L	50	55.9	112	70-130	
o-Xylene	ug/L	50	52.6	105	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	544	109	70-130	
tert-Butyl Formate	ug/L	400	449	112	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

LABORATORY CONTROL SAMPLE: 3508736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	49.8	100	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3508737 3508738

Parameter	Units	92581222001 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	20	20	18.2	17.1	91	86	70-137	6	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	488	470	122	118	39-157	4	30	
Benzene	ug/L	25.5	20	20	41.6	41.4	80	79	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	17.0	16.1	85	80	63-144	6	30	
Ethanol	ug/L	ND	800	800	701	662	88	83	39-176	6	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.1	33.1	88	83	66-137	6	30	
Ethylbenzene	ug/L	ND	20	20	25.5	25.0	128	125	66-153	2	30	
m&p-Xylene	ug/L	ND	40	40	50.2	49.2	126	123	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.0	16.8	90	84	54-156	6	30	
Naphthalene	ug/L	110	20	20	137	154	139	220	61-148	11	30	M1
o-Xylene	ug/L	5.0J	20	20	28.9	29.0	120	120	70-148	0	30	
tert-Amyl Alcohol	ug/L	ND	400	400	380	355	95	89	54-153	7	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.9	36.2	95	90	69-139	5	30	
tert-Butyl Alcohol	ug/L	ND	200	200	204	196	96	92	43-188	4	30	
tert-Butyl Formate	ug/L	ND	160	160	68.7	47.5J	43	30	10-170		30	
Toluene	ug/L	ND	20	20	20.2	19.7	101	99	59-148	2	30	
Xylene (Total)	ug/L	ND	60	60	79.1	78.2	124	122	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130			
4-Bromofluorobenzene (S)	%						96	95	70-130			
Toluene-d8 (S)	%						95	94	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

QC Batch: 670191
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92581222003, 92581222004, 92581222010, 92581222013, 92581222015, 92581222017

METHOD BLANK: 3509074 Matrix: Water
Associated Lab Samples: 92581222003, 92581222004, 92581222010, 92581222013, 92581222015, 92581222017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/07/22 03:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 03:07	
Benzene	ug/L	ND	5.0	1.7	01/07/22 03:07	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 03:07	
Ethanol	ug/L	ND	200	144	01/07/22 03:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 03:07	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 03:07	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 03:07	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 03:07	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 03:07	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 03:07	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 03:07	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 03:07	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 03:07	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 03:07	
Toluene	ug/L	ND	5.0	2.0	01/07/22 03:07	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 03:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130		01/07/22 03:07	
4-Bromofluorobenzene (S)	%	100	70-130		01/07/22 03:07	
Toluene-d8 (S)	%	103	70-130		01/07/22 03:07	

LABORATORY CONTROL SAMPLE: 3509075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	52.2	104	70-130	
Diisopropyl ether	ug/L	50	54.4	109	70-130	
Ethanol	ug/L	2000	2320	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Naphthalene	ug/L	50	55.2	110	70-130	
o-Xylene	ug/L	50	52.1	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	542	108	70-130	
tert-Butyl Formate	ug/L	400	439	110	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

LABORATORY CONTROL SAMPLE: 3509075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	51.2	102	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509076 3509077

Parameter	Units	92581242001 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	20	20	16.2	15.7	81	78	70-137	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	460	459	115	115	39-157	0	30	
Benzene	ug/L	ND	20	20	18.3	18.3	92	91	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	15.5	14.8	77	74	63-144	5	30	
Ethanol	ug/L	ND	800	800	613	612	77	77	39-176	0	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	31.6	30.6	79	77	66-137	3	30	
Ethylbenzene	ug/L	ND	20	20	24.3	24.1	121	120	66-153	1	30	
m&p-Xylene	ug/L	ND	40	40	48.0	47.8	120	120	69-152	0	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.9	15.3	80	77	54-156	4	30	
Naphthalene	ug/L	ND	20	20	25.7	24.7	126	121	61-148	4	30	
o-Xylene	ug/L	ND	20	20	23.6	23.5	118	117	70-148	0	30	
tert-Amyl Alcohol	ug/L	ND	400	400	349	340	87	85	54-153	3	30	
tert-Amylmethyl ether	ug/L	ND	40	40	35.2	34.5	88	86	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	178	160	89	80	43-188	11	30	
tert-Butyl Formate	ug/L	ND	160	160	56.7	77.9	35	49	10-170	31	30	R1
Toluene	ug/L	ND	20	20	18.7	18.6	94	93	59-148	1	30	
Xylene (Total)	ug/L	ND	60	60	71.6	71.3	119	119	63-158	0	30	
1,2-Dichloroethane-d4 (S)	%						99	94	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						94	94	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

QC Batch: 670193
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92581222005, 92581222006, 92581222008, 92581222009, 92581222011, 92581222016

METHOD BLANK: 3509090 Matrix: Water
Associated Lab Samples: 92581222005, 92581222006, 92581222008, 92581222009, 92581222011, 92581222016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/07/22 03:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 03:25	
Benzene	ug/L	ND	5.0	1.7	01/07/22 03:25	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 03:25	
Ethanol	ug/L	ND	200	144	01/07/22 03:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 03:25	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 03:25	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 03:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 03:25	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 03:25	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 03:25	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 03:25	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 03:25	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 03:25	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 03:25	
Toluene	ug/L	ND	5.0	2.0	01/07/22 03:25	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 03:25	
1,2-Dichloroethane-d4 (S)	%	100	70-130		01/07/22 03:25	
4-Bromofluorobenzene (S)	%	100	70-130		01/07/22 03:25	
Toluene-d8 (S)	%	103	70-130		01/07/22 03:25	

LABORATORY CONTROL SAMPLE: 3509091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.2	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	2310	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Naphthalene	ug/L	50	55.0	110	70-130	
o-Xylene	ug/L	50	50.9	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	546	109	70-130	
tert-Butyl Formate	ug/L	400	444	111	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

LABORATORY CONTROL SAMPLE: 3509091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.6	101	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509092 3509093

Parameter	Units	92581222005 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	20	20	15.7	15.5	79	78	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	434	421	108	105	39-157	3	30	
Benzene	ug/L	ND	20	20	18.2	18.2	91	91	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	14.9	14.9	74	74	63-144	0	30	
Ethanol	ug/L	ND	800	800	591	570	74	71	39-176	4	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	30.5	30.2	76	75	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	23.7	23.7	119	118	66-153	0	30	
m&p-Xylene	ug/L	ND	40	40	48.0	47.3	120	118	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.4	15.1	77	75	54-156	2	30	
Naphthalene	ug/L	ND	20	20	24.7	24.6	124	123	61-148	0	30	
o-Xylene	ug/L	ND	20	20	23.9	22.9	119	115	70-148	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	329	313	82	78	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40	40	33.9	33.5	85	84	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	200	200	170	167	85	83	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	36.9J	27.9J	23	17	10-170		30	
Toluene	ug/L	ND	20	20	18.4	18.4	92	92	59-148	0	30	
Xylene (Total)	ug/L	ND	60	60	71.9	70.2	120	117	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						94	95	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

QC Batch: 670203
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581222007

METHOD BLANK: 3509157 Matrix: Water
Associated Lab Samples: 92581222007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/07/22 00:01	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 00:01	
Benzene	ug/L	ND	5.0	1.7	01/07/22 00:01	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 00:01	
Ethanol	ug/L	ND	200	144	01/07/22 00:01	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 00:01	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 00:01	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 00:01	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 00:01	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 00:01	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 00:01	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 00:01	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 00:01	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 00:01	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 00:01	
Toluene	ug/L	ND	5.0	2.0	01/07/22 00:01	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 00:01	
1,2-Dichloroethane-d4 (S)	%	95	70-130		01/07/22 00:01	
4-Bromofluorobenzene (S)	%	95	70-130		01/07/22 00:01	
Toluene-d8 (S)	%	99	70-130		01/07/22 00:01	

LABORATORY CONTROL SAMPLE: 3509158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1170	117	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	50.6	101	70-130	
Ethanol	ug/L	2000	1880	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	52.0	104	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Naphthalene	ug/L	50	55.8	112	70-130	
o-Xylene	ug/L	50	53.1	106	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	515	103	70-130	
tert-Butyl Formate	ug/L	400	433	108	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

LABORATORY CONTROL SAMPLE: 3509158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.4	101	70-130	
Xylene (Total)	ug/L	150	160	106	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509159 3509160

Parameter	Units	92581258017 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	20	20	19.8	19.4	99	97	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	424	392	106	98	39-157	8	30	
Benzene	ug/L	ND	20	20	12.0	12.4	60	62	70-151	3	30	M1
Diisopropyl ether	ug/L	ND	20	20	17.2	17.2	86	86	63-144	0	30	
Ethanol	ug/L	ND	800	800	837	780	105	98	39-176	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.3	39.6	98	99	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	4.8J	3.6J	24	18	66-153		30	M1
m&p-Xylene	ug/L	ND	40	40	7.3J	5.7J	18	14	69-152		30	M1
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	19.5	100	98	54-156	2	30	
Naphthalene	ug/L	ND	20	20	3.8J	ND	19	5	61-148		30	M1
o-Xylene	ug/L	ND	20	20	3.1J	2.5J	15	13	70-148		30	M1
tert-Amyl Alcohol	ug/L	ND	400	400	397	384	99	96	54-153	3	30	
tert-Amylmethyl ether	ug/L	ND	40	40	33.2	34.1	83	85	69-139	3	30	
tert-Butyl Alcohol	ug/L	ND	200	200	234	234	117	117	43-188	0	30	
tert-Butyl Formate	ug/L	ND	160	160	122	89.1	77	56	10-170	32	30	R1
Toluene	ug/L	ND	20	20	5.2	4.4J	26	22	59-148		30	M1
Xylene (Total)	ug/L	ND	60	60	ND	ND	0	0	63-158		30	MS
1,2-Dichloroethane-d4 (S)	%						100	98	70-130			
4-Bromofluorobenzene (S)	%						71	89	70-130			
Toluene-d8 (S)	%						94	96	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

QC Batch: 670825
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92581222012, 92581222014

METHOD BLANK: 3512567 Matrix: Water
Associated Lab Samples: 92581222012, 92581222014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/10/22 13:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/10/22 13:45	
Benzene	ug/L	ND	5.0	1.7	01/10/22 13:45	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/10/22 13:45	
Ethanol	ug/L	ND	200	144	01/10/22 13:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/10/22 13:45	
Ethylbenzene	ug/L	ND	5.0	1.8	01/10/22 13:45	
m&p-Xylene	ug/L	ND	10.0	4.1	01/10/22 13:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/10/22 13:45	
Naphthalene	ug/L	ND	5.0	2.1	01/10/22 13:45	
o-Xylene	ug/L	ND	5.0	2.0	01/10/22 13:45	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/10/22 13:45	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/10/22 13:45	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/10/22 13:45	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/10/22 13:45	
Toluene	ug/L	ND	5.0	2.0	01/10/22 13:45	
Xylene (Total)	ug/L	ND	5.0	5.0	01/10/22 13:45	
1,2-Dichloroethane-d4 (S)	%	86	70-130		01/10/22 13:45	
4-Bromofluorobenzene (S)	%	103	70-130		01/10/22 13:45	
Toluene-d8 (S)	%	106	70-130		01/10/22 13:45	

LABORATORY CONTROL SAMPLE: 3512568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	47.9	96	70-130	
Diisopropyl ether	ug/L	50	48.8	98	70-130	
Ethanol	ug/L	2000	2120	106	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	52.0	104	70-130	
Naphthalene	ug/L	50	55.6	111	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
tert-Amyl Alcohol	ug/L	1000	983	98	70-130	
tert-Amylmethyl ether	ug/L	100	99.0	99	70-130	
tert-Butyl Alcohol	ug/L	500	495	99	70-130	
tert-Butyl Formate	ug/L	400	493	123	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

LABORATORY CONTROL SAMPLE: 3512568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.4	97	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512569 3512570

Parameter	Units	92581711002 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	250	250	256	245	102	98	70-137	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	6250	6050	125	121	39-157	3	30	
Benzene	ug/L	ND	250	250	2550	2540	1020	1010	70-151	1	30	E,M1
Diisopropyl ether	ug/L	ND	250	250	235	240	94	96	63-144	2	30	
Ethanol	ug/L	ND	10000	10000	11800	11200	118	112	39-176	6	30	
Ethyl-tert-butyl ether	ug/L	ND	500	500	485	474	97	95	66-137	2	30	
Ethylbenzene	ug/L	ND	250	250	294	292	118	117	66-153	1	30	
m&p-Xylene	ug/L	ND	500	500	613	611	123	122	69-152	0	30	
Methyl-tert-butyl ether	ug/L	ND	250	250	1550	1520	621	609	54-156	2	30	M1
Naphthalene	ug/L	ND	250	250	290	284	116	114	61-148	2	30	
o-Xylene	ug/L	ND	250	250	287	283	115	113	70-148	1	30	
tert-Amyl Alcohol	ug/L	ND	5000	5000	5710	5670	114	113	54-153	1	30	
tert-Amylmethyl ether	ug/L	ND	500	500	490	487	98	97	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	2500	2500	3420	3290	137	132	43-188	4	30	
tert-Butyl Formate	ug/L	ND	2000	2000	974	950	49	48	10-170	2	30	v1
Toluene	ug/L	ND	250	250	348	345	139	138	59-148	1	30	
Xylene (Total)	ug/L	ND	750	750	900	894	120	119	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						101	101	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						101	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

QC Batch: 670317
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92581222001, 92581222002, 92581222003, 92581222004, 92581222005, 92581222006, 92581222007, 92581222008, 92581222009, 92581222010, 92581222011, 92581222012, 92581222013, 92581222014, 92581222015, 92581222016, 92581222017

METHOD BLANK: 3509790 Matrix: Water
Associated Lab Samples: 92581222001, 92581222002, 92581222003, 92581222004, 92581222005, 92581222006, 92581222007, 92581222008, 92581222009, 92581222010, 92581222011, 92581222012, 92581222013, 92581222014, 92581222015, 92581222016, 92581222017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	01/07/22 15:50	
1-Chloro-2-bromopropane (S)	%	99	60-140		01/07/22 15:50	

LABORATORY CONTROL SAMPLE & LCSD: 3509791 3509792

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	0.27	116	111	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				102	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509794 3509795

Parameter	Units	92581222002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.29	116	116	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						103	104	60-140			

SAMPLE DUPLICATE: 3509793

Parameter	Units	92581222001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	104			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11929/64473 Former Ryder Termi
Pace Project No.: 92581222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92581222001	**MW-2**	EPA 8011	670317	EPA 8011	670384
92581222002	**MW-2D**	EPA 8011	670317	EPA 8011	670384
92581222003	**MW-3R**	EPA 8011	670317	EPA 8011	670384
92581222004	**MW-4**	EPA 8011	670317	EPA 8011	670384
92581222005	**MW-5**	EPA 8011	670317	EPA 8011	670384
92581222006	**MW-7**	EPA 8011	670317	EPA 8011	670384
92581222007	**MW-8**	EPA 8011	670317	EPA 8011	670384
92581222008	**MW-9**	EPA 8011	670317	EPA 8011	670384
92581222009	**MW-10**	EPA 8011	670317	EPA 8011	670384
92581222010	**MW-11**	EPA 8011	670317	EPA 8011	670384
92581222011	**MW-12**	EPA 8011	670317	EPA 8011	670384
92581222012	**MW-13**	EPA 8011	670317	EPA 8011	670384
92581222013	**MW-14**	EPA 8011	670317	EPA 8011	670384
92581222014	**MW-16**	EPA 8011	670317	EPA 8011	670384
92581222015	**MW-18**	EPA 8011	670317	EPA 8011	670384
92581222016	**DUP**	EPA 8011	670317	EPA 8011	670384
92581222017	**FB**	EPA 8011	670317	EPA 8011	670384
92581222001	**MW-2**	EPA 8260D	670148		
92581222002	**MW-2D**	EPA 8260D	670148		
92581222003	**MW-3R**	EPA 8260D	670191		
92581222004	**MW-4**	EPA 8260D	670191		
92581222005	**MW-5**	EPA 8260D	670193		
92581222006	**MW-7**	EPA 8260D	670193		
92581222007	**MW-8**	EPA 8260D	670203		
92581222008	**MW-9**	EPA 8260D	670193		
92581222009	**MW-10**	EPA 8260D	670193		
92581222010	**MW-11**	EPA 8260D	670191		
92581222011	**MW-12**	EPA 8260D	670193		
92581222012	**MW-13**	EPA 8260D	670825		
92581222013	**MW-14**	EPA 8260D	670191		
92581222014	**MW-16**	EPA 8260D	670825		
92581222015	**MW-18**	EPA 8260D	670191		
92581222016	**DUP**	EPA 8260D	670193		
92581222017	**FB**	EPA 8260D	670191		
92581222018	**TB**	EPA 8260D	670148		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92581222

92581222

LAB USE O

ber or

Company: SCDHEC	Billing Information:
Address: 2600 Bull St, Columbia SC	
Report To: R. Dunn	Email To: dunnra@dhec.sc.gov
Copy To:	Site Collection Info/Address: 10 Woods Lake Dr.
Customer Project Name/Number: Former Ryder Terminal	State: SC County/City: Greenville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email:	Site/Facility ID #: UST#11929 Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Shawn Sprott	Purchase Order #: 64473 Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type: 3 | 3

Lab Project Manager:

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

Analyses: BTEXNM,1,2-DCA,oxys 8260D | EDB 8011

Lab Profile/Line:

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns			Lab Profile/Line
MW-1											Not Sampled
MW-2	GW	G	1/4/22	13:55				6	X	X	001 Odor
MW-2D				13:27							002 Slight odor
MW-3R				12:48							003 Strong odor
MW-4				11:18							004 Odor
MW-5				11:55				6	X	X	005 No odor
MW-6											NS
MW-7	GW	G	1/4/22	10:34				6	X	X	006 No odor
MW-8				10:44				6	X	X	007
MW-9				12:06				6	X	X	008

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92581222

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

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

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2697292

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92205U
Cooler 1 Temp Upon Receipt: 4.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 1/5/2022 1:10	Received by/Company: (Signature) Josh Mallas/Pace	Date/Time: 1/5/22 1110
Relinquished by/Company: (Signature) Josh Mallas/Pace	Date/Time: 1/5/22 1640	Received by/Company: (Signature) HH Pace HVL	Date/Time: 1/5/22 1641 C
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCl) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: 1 of: _____

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CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC
Address: 2600 Bull St, Columbia SC
Report To: R. Dunn
Copy To:
Billing Information:
Email To: dunnra@dhec.sc.gov
Site Collection Info/Address: 10 Woods Lake Dr.
Customer Project Name/Number: Former Ryder Terminal
State: SC County/City: Greenville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone:
Email:
Site/Facility ID #: UST# 11929
Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Shawn Sprott
Purchase Order #: 64473
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature):
Turnaround Date Required:
Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: ____

Container Preservative Type **: 3, 3

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

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Item	Response
Custody Seals Present/Intact	Y N NA (N circled)
Custody Signatures Present	Y N NA (Y circled)
Collector Signature Present	Y N NA (Y circled)
Bottles Intact	Y N NA (Y circled)
Correct Bottles	Y N NA (Y circled)
Sufficient Volume	Y N NA (Y circled)
Samples Received on Ice	Y N NA (Y circled)
VOA - Headspace Acceptable	Y N NA (Y circled)
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA (Y circled)
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA (NA circled)
pH Strips:	
Sulfide Present	Y N NA (NA circled)
Lead Acetate Strips:	

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

Analyses: BTEXNM, 1,2-DCA, oxys 8260D; EDB 8011

LAB USE ONLY: Lab Sample # / Comments: 92581222

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	BTEXNM, 1,2-DCA, oxys 8260D	EDB 8011	Lab Sample # / Comments
MW-10	GW	G	1/4/22	11:50				6	X	X	No odor 009
MW-11	↓	↓	↓	10:28				↓	↓	↓	↓ 010
MW-12	↓	↓	↓	12:14				↓	↓	↓	↓ 011
MW-13	↓	↓	↓	13:46				↓	↓	↓	↓ 012
MW-14	↓	↓	↓	12:32				6	X	X	↓ 013
~~MW-15~~											
MW-16	GW	G	1/4/22	11:40				6	X	X	slight odor 014
~~MW-17~~											
MW-18	GW	G	1/4/22	14:03				6	X	X	Odor 015
DUP	↓	↓	↓					6	X	X	016

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None (Wet circled)
Packing Material Used: BB
Radchem sample(s) screened (<500 cpm): Y N NA (NA circled)

SHORT HOLDS PRESENT (<72 hours): Y N N/A (N circled)
Lab Tracking #: 2697293
Samples received via: FEDEX UPS Client Courier Pace Courier (Pace Courier circled)

Lab Sample Temperature Info:
Temp Blank Received: Y N NA (N circled)
Therm ID#: 92T0l4
Cooler 1 Temp Upon Receipt: 4.0 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.0 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature]	1/5/22 11:10	Josh Mallas/Pace	1/5/22 1110	Table #:
Josh Mallas/Pace	1/5/22 1640	WH Pace HVL	1/5/22 1640	Acctnum: / Template: / Prelogin:
				PM: / PB:

Trip Blank Received: Y N NA (Y circled) HCL MeOH TSP Other (HCL circled)
Non Conformance(s): YES / NO (NO circled)
Page: ____ of: ____

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CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHEC
Address: 2600 Bull St, Columbia SC
Report To: R. Dunn
Copy To:
Billing Information:
Email To: dunnra@dhec.sc.gov
Site Collection Info/Address: 10 Woods Lake Dr.
Customer Project Name/Number: Former Ryder Terminal
State: SC
County/City: Greenville
Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone:
Email:
Site/Facility ID #: UST# 11929
Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Shawn Sprott
Purchase Order #: 64473
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature): [signature]
Turnaround Date Required:
Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ______ [ ] Hold: ______
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis: ______

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

Container Preservative Type **: 3

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

Lab Project Manager:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Analyses: BTEXNM, 1,2-DCA, Oxy 8260D	EDB 8011	Lab Sample # / Comments: 92581222
FB	GW	G	1/4/22	14:15				6	X	X	field blank 017
MECI GAC	↓	↓	↓	14:17				6	X	X	GAC sample
TB	↓	↓	↓	8:00				2	X		trip blank 018

Lab Profile/Line:
Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA (N)
Custody Signatures Present	Y N NA (Y)
Collector Signature Present	Y N NA (Y)
Bottles Intact	Y N NA (Y)
Correct Bottles	Y N NA (Y)
Sufficient Volume	Y N NA (Y)
Samples Received on Ice	Y N NA (Y)
VOA - Headspace Acceptable	Y N NA (Y)
USDA Regulated Soils	Y N NA (NA)
Samples in Holding Time	Y N NA (Y)
Residual Chlorine Present	Y N NA (NA)
Cl Strips:	
Sample pH Acceptable	Y N NA (NA)
pH Strips:	
Sulfide Present	Y N NA (NA)
Lead Acetate Strips:	

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet (✓) Blue Dry None
Packing Material Used: BB
Radchem sample(s) screened (<500 cpm): Y N NA (NA)

SHORT HOLDS PRESENT (<72 hours): Y N (N) N/A
Lab Tracking #: 2546957
Samples received via: FEDEX UPS Client Courier Pace Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N NA (N)
Therm ID#: 92TC64
Cooler 1 Temp Upon Receipt: 4.0 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 4.0 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	1/5/22 11:10	Josh Mallas/Pace	1/5/22 1110
Josh Mallas/Pace	1/5/22 1640	HH Pace HVL	1/5/22 1640

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA (Y)
HCL (circled) MeOH TSP Other

Non Conformance(s): YES / NO (NO)

Page: ____ of: ____

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

January 10, 2022

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

RE: Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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

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

CERTIFICATIONS

Project:	Former Ryder Terminal GAC
Pace Project No.:	92581231

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
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 Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

SAMPLE SUMMARY

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92581231001	**MECI GAC**	Water	01/04/22 14:17	01/05/22 11:10

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

SAMPLE ANALYTE COUNT

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92581231001	**MECI GAC**	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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

ANALYTICAL RESULTS

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

Sample: MECI GAC **Lab ID: 92581231001** Collected: 01/04/22 14:17 Received: 01/05/22 11:10 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 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 20:05	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	01/07/22 09:55	01/07/22 20:05	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 10:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 10:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 10:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 10:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 10:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 10:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 10:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 10:04	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 10:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 10:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 10:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 10:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 10:04	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 10:04	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 10:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 10:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 10:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 10:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		01/07/22 10:04	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 10:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

QC Batch: 670193
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581231001

METHOD BLANK: 3509090 Matrix: Water
Associated Lab Samples: 92581231001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/07/22 03:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 03:25	
Benzene	ug/L	ND	5.0	1.7	01/07/22 03:25	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 03:25	
Ethanol	ug/L	ND	200	144	01/07/22 03:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 03:25	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 03:25	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 03:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 03:25	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 03:25	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 03:25	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 03:25	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 03:25	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 03:25	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 03:25	
Toluene	ug/L	ND	5.0	2.0	01/07/22 03:25	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 03:25	
1,2-Dichloroethane-d4 (S)	%	100	70-130		01/07/22 03:25	
4-Bromofluorobenzene (S)	%	100	70-130		01/07/22 03:25	
Toluene-d8 (S)	%	103	70-130		01/07/22 03:25	

LABORATORY CONTROL SAMPLE: 3509091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.2	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	2310	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Naphthalene	ug/L	50	55.0	110	70-130	
o-Xylene	ug/L	50	50.9	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	546	109	70-130	
tert-Butyl Formate	ug/L	400	444	111	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

LABORATORY CONTROL SAMPLE: 3509091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.6	101	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509092 3509093

Parameter	Units	92581222005 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	20	20	15.7	15.5	79	78	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	434	421	108	105	39-157	3	30	
Benzene	ug/L	ND	20	20	18.2	18.2	91	91	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	14.9	14.9	74	74	63-144	0	30	
Ethanol	ug/L	ND	800	800	591	570	74	71	39-176	4	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	30.5	30.2	76	75	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	23.7	23.7	119	118	66-153	0	30	
m&p-Xylene	ug/L	ND	40	40	48.0	47.3	120	118	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.4	15.1	77	75	54-156	2	30	
Naphthalene	ug/L	ND	20	20	24.7	24.6	124	123	61-148	0	30	
o-Xylene	ug/L	ND	20	20	23.9	22.9	119	115	70-148	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	329	313	82	78	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40	40	33.9	33.5	85	84	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	200	200	170	167	85	83	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	36.9J	27.9J	23	17	10-170		30	
Toluene	ug/L	ND	20	20	18.4	18.4	92	92	59-148	0	30	
Xylene (Total)	ug/L	ND	60	60	71.9	70.2	120	117	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						94	95	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

QC Batch: 670317
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92581231001

METHOD BLANK: 3509790 Matrix: Water
Associated Lab Samples: 92581231001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	01/07/22 15:50	
1-Chloro-2-bromopropane (S)	%	99	60-140		01/07/22 15:50	

LABORATORY CONTROL SAMPLE & LCSD: 3509791 3509792

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	0.27	116	111	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				102	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3509794 3509795

Parameter	Units	92581222002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.29	116	116	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						103	104	60-140			

SAMPLE DUPLICATE: 3509793

Parameter	Units	92581222001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	104			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Ryder Terminal GAC
Pace Project No.: 92581231

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92581231001	**MECI GAC**	EPA 8011	670317	EPA 8011	670384
92581231001	**MECI GAC**	EPA 8260D	670193		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ONLY- Affix Work

WO# : 92581231

92581231

ALL SHADI

Company: SCDHEC	Billing Information:
Address: 2600 Bull St, Columbia SC	
Report To: R. Dunn	Email To: dunnra@dhec.sc.gov
Copy To:	Site Collection Info/Address: 10 Woods Lake Dr.
Customer Project Name/Number: Former Ryder Terminal	State: SC County/City: Greenville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email:	Site/Facility ID #: VST# 11929 Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Shawn Sprott	Purchase Order #: 64473 Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Preservative Type **	Analyses: BTEXNM, 1,2-DCA, ONX 8260D	Analyses: EDB 8011	Lab Profile/Line: Lab Sample # / Comments:
FB	GW	G	1/4/22	14:15				6		x	x	field blank 92581231
MECI GAC	↓	↓	↓	14:17				6		x	x	GAC sample 001
TB	↓	↓	↓	8:00				2		x		trip blank

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	(N)	NA
Custody Signatures Present	(Y)	N	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples Received on Ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NA)
Samples in Holding Time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips: _____			
Sample pH Acceptable	Y	N	(NA)
pH Strips: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

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

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2546957

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92TC64

Cooler 1 Temp Upon Receipt: 4.0 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 4.0 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	1/5/22 1:10	Josh Mallas/Pace	1/5/22 1110
Josh Mallas/Pace	1/5/22 1640	[signature] Pace HVL	1/5/22 1640
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: (Y) N NA

(HCl) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

APPENDIX B:

TAX MAP

#11929

PIN / Tax Map #	0282000100500	Jurisdiction	1
Owner Name	Mitchell F Andrew	Land Use	940
Owner Name 2		Legal Description	PT.10
Mailing Address	101 Chelsea Ln	Subdivision	Lowndes Hill Realty Co.
City	Greer	Site Address Number	10
State	SC	Site Address Street	WOODS LAKE
Zip Code	29650	Sale Price	$0
In Care Of		Fair Market Value	$442,300
Previous Owner	Wheeler Properties LLC	Taxable Market Value	$442,300
Deed Date	2/20/2020	Taxes	$6,794.55
Deed Book	2587	Date Taxes Paid	12/31/2020
Deed Page	5515	Estimated Acres	1.41
Plat Book	1359	Square Feet	0
Plat Page	86	Number of Bedrooms	0
Tax District	500	Number of Bathrooms	0
Market Area	C00077	Number of Half Baths	0

Map Scale
1 inch = 100 feet
9/29/2021

APPENDIX C:

DISPOSAL MANIFEST

Midlands Environmental Consultants, Inc.

January 12, 2022

Re: Treatment of Purge Water
Former Ryder Terminal
Greenville, South Carolina
SCDHEC Site ID Number 11929
MECI Project Number 21-7721

To Whom It May Concern;

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

Applicability:

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

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.

2. No free-product was detected in any of the purge water drums.

3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.

4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.

5. Record of usage is maintained by Contractor.

6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.

7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

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

Post Office Box 854, Lexington, SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

A total of 32.50 gallons were treated on January 4, 2022, at the referenced site.

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

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

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

APPENDIX D:

ACCESS AGREEMENTS

Morgan

UST 51 DOCUMENT

State Lead Option
Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, 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. I understand that the Agency 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.

UST Permit # 11929		
Facility Name: ~~Former Ryder Terminal~~		
Facility Address: 10 Woods Lake Dr., Greenville, SC 29607		
Facility Phone Number: 864-884-0937		
Is facility within city limits? (check yes/no)	☒ **Yes**	☐ **No**
Name of nearest intersecting street/road/highway:	Lownes Hill Rd.	
Does public water/sewer utility service this facility?	☒ **Yes**	☐ **No**
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:		
Name:	**Phone Number:**	
Were USTs previously removed from the ground at this facility?	☒ **Yes**	☐ **No**
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):		
Name: You have all that information.	**Phone Number:** I do not.	
Is the facility currently leased to someone?	☒ **Yes**	☐ **No**
*If yes, notify them of the pending work scope, and please provide their name/contact number:		
Name: Homestead Lawn & Landscape	**Phone Number:** 864-884-4897	

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of Property Owner (Print):	F. Andrew Mitchell	
Signature of Property Owner or authorized representative:	F. Andrew Mitchell	**Date** 5/16/53
Affiliation (if applicable)		
Signature of Witness	Karen M. Mitchell	**Date** 5/16/53

Contact Info		
Phone Numbers:	**Home:**	**Cell:** 864-884-0937
Email Address:	amitch2639@gmail.com	

APPENDIX E:

DATA VERIFICATION CHECKLIST

Contractor Checklist

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

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

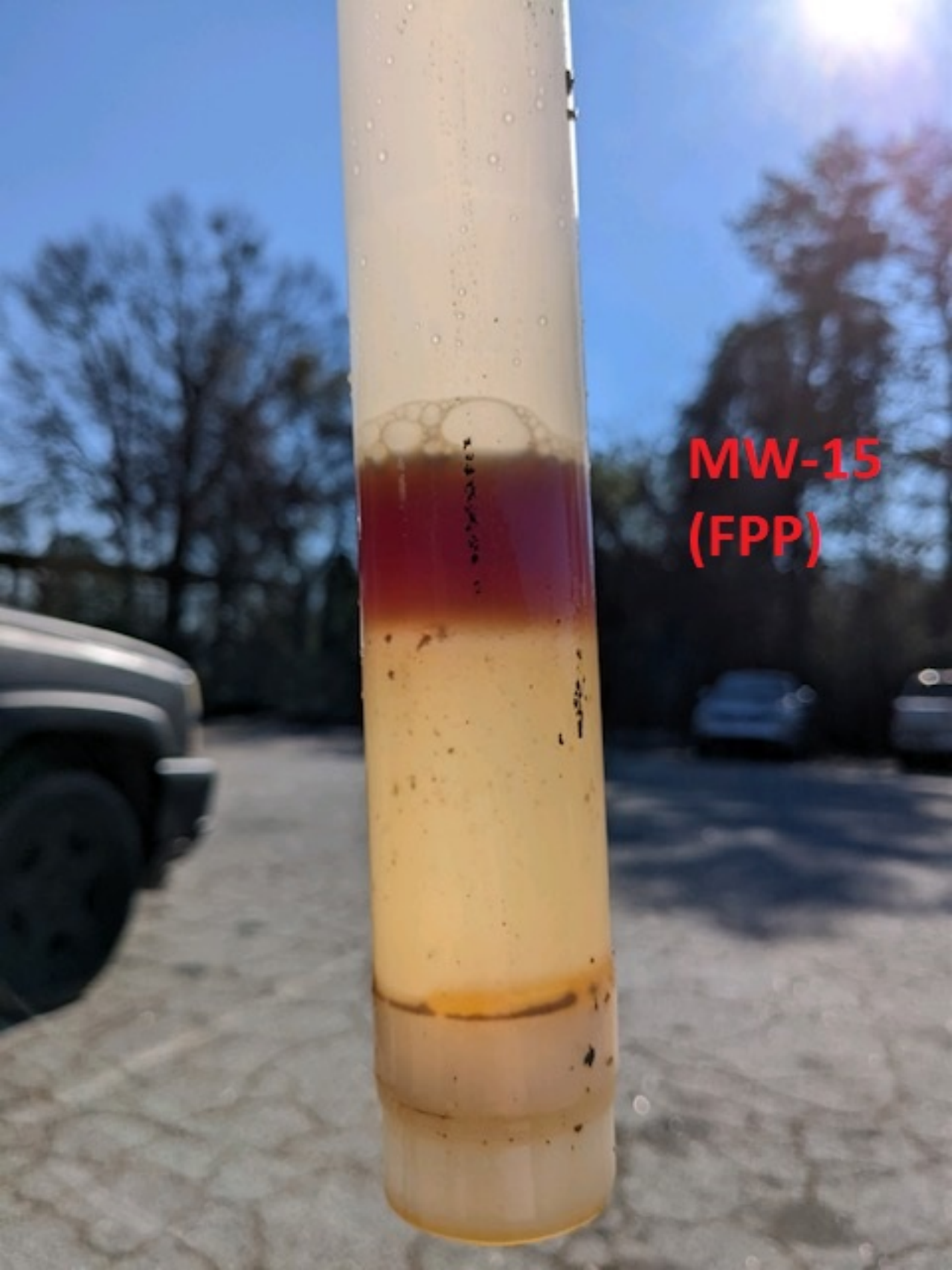
APPENDIX F:

PHOTOS


MW-1
(Damaged)


MW-3R
(Needs New Pad/Vault)


MW-6
(FPP)


MW-15
(FPP)


MW-17
(FPP)

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 10-1-2015

Permit Number 11929

Project Manager Kevin Barnes

Name of Contractor BLE

UST Certification Number

Docket Number 30 tech

Scanned

SSWP - GW Sampling Event

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

September 28, 2015

South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Kevin Barnes, G.I.T.
Hydrogeologist

Subject: **Site Specific Work Plan – Groundwater Sampling Event**
Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, Greenville County, South Carolina
UST Permit #11929
BLE Project No. J15-1010-21

Dear Mr. Barnes:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated August 13, 2015, for the implementation of a groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G., CHMM
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 29602

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

D H E C
PROMOTE PROTECT PROSPER

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

To: Mr. Kevin Barnes (SCDHEC Project Manager)
From: Mr. Trevor Benton (Contractor Project Manager)
Contractor: Bunnell-Lammons Engineering, Inc. UST Contractor Certification Number: UCC-0010

Facility Name: Former Ryder Truck Terminal UST Permit #: 11929
Facility Address: 10 Woods Lake Drive,Greenville, South Carolina 29607
Responsible Party: Ms. Ingrid Auten C/O Annie Mumbauer Phone:
RP Address: P.O. Box 408, Greenville, South Carolina 29602
Property Owner (if different): Wheeler Properties, LLC
Property Owner Address: 10 Woods Lake Road, Greenville, South Carolina 29607
Current Use of Property: Mr. Rooter plumbing

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☑ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

☐ BTEXN

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

___ Soil ___ Water Supply Wells ___ Air 1 Field Blank
19 Monitoring Wells 0 Surface Water 1 Duplicate 1 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: 0 Estimated Footage: 0 feet per point
# of deep points proposed: 0 Estimated Footage: 0 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: 0 Estimated Footage: 0 feet per point
# of deep wells: 0 Estimated Footage: 0 feet per point
# of recovery wells: 0 Estimated Footage: 0 feet per point
Monitoring Well development method (consistent with SOP): NA
Comments, if warranted:

UST Permit #: 11929 Facility Name: Former Ryder Truck Terminal

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 45 Field Work Completion: 60
Report Submittal: 90 # of Copies Provided to Property Owners: 1

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

Investigation Derived Waste Disposal
Soil: 0 Tons Purge Water: 50 Gallons
Drilling Fluids: 0 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.
Monitoring wells MW-1, MW-2, MW-2D, MW-3R, and MW-4 through MW-18 will be purged and sampled during this scope of work. The monitoring well purging will be performed in accordance with BLE's approved Annual Contractor Quality Assurance Plan (ACQAP).

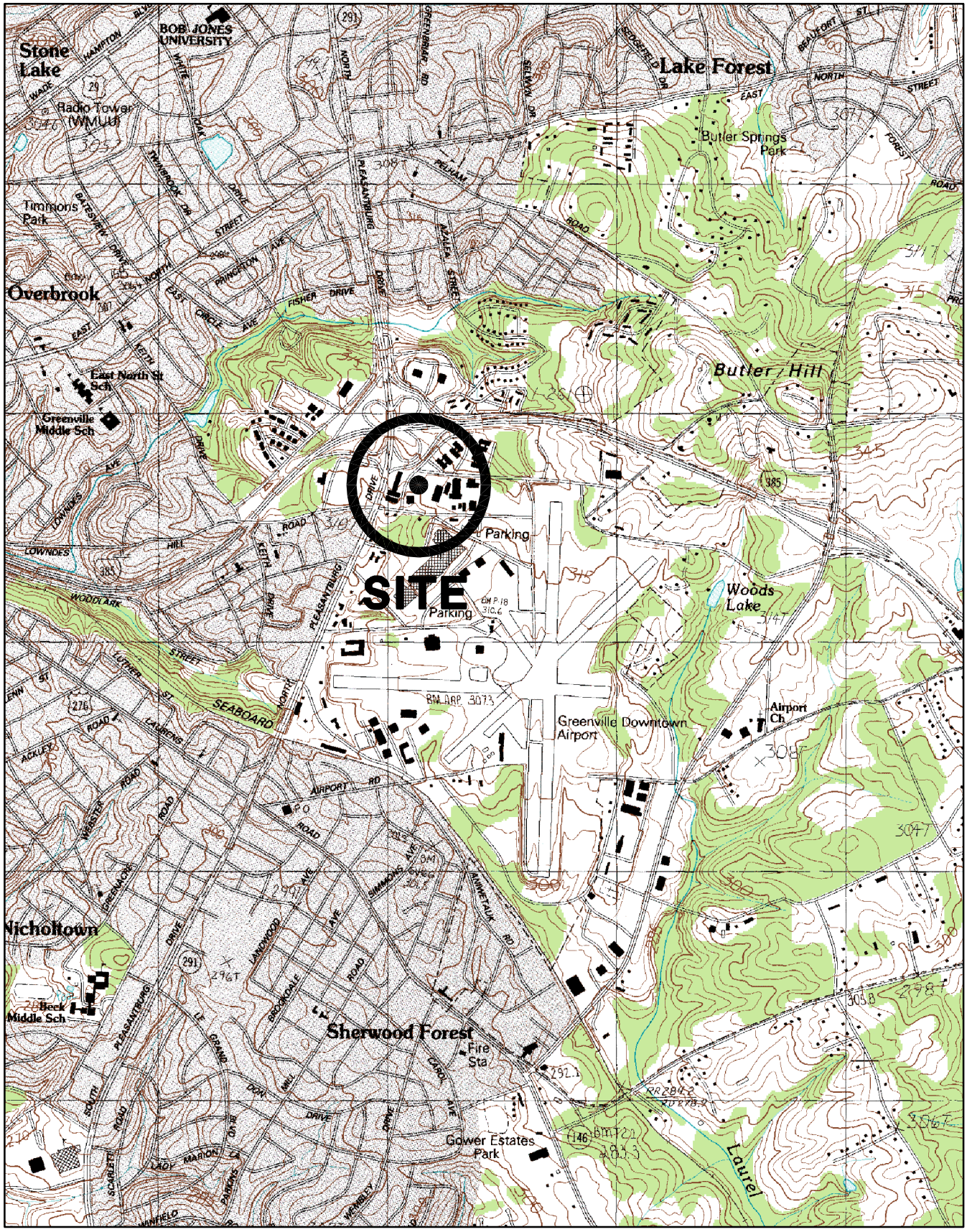
Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory:
SCDHEC Certification Number:
Name of Laboratory Director:

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller:
SCLLR Certification Number:

No 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

FIGURES



1 .5 0 KILOMETERS 1 2
1000 0 METERS 1000 2000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, MAULDIN, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 09-28-15	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP FORMER RYDER TRUCK TERMINAL UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA
CHECKED: IAI	CAD: FORMERRTT-21SLM		FIGURE 1
APPROVED:	JOB NO: J15-1010-21		

WOODS LAKE ROAD

COMFORT INN

PLANTER

OVERHEAD POWER

FIRE HYDRANT

P.P.

ASPHALT

MW-16

MR. ROOTER PLUMBING

CHAIN LINK FENCE

MW-4

MW-17

MW-5

MW-6

MW-12

MW-10

CONCRETE

MW-18

FORMER PUMP ISLANDS

FORMER TANK BASIN

MW-15

MW-2

MW-2D

MW-3

MW-14

MW-3R

MW-13

MW-9

CATCH BASIN

MW-1

GRASS

ASPHALT

FORMER GATEWAY SUPPLY

MW-11

R.L. KUNTZ

MW-7

MW-8

LEGEND

	SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
	SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL
	LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL
P.P.	POWER POLE
OVERHEAD POWER	OVERHEAD POWER LINE
NFP	NO FREE PRODUCT

60 30 0 60 120

APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES, SCRLS #17933 DATED 2-21-06.

DRAWN BY:	ACE	DATE:	09-19-12
CHECKED BY:	IAI	FILE:	FORMERRTT-19FPTM
APPROVED BY:		JOB NO:	J12-1010-19

REVISIONS		
No.	DESCRIPTION	BY

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE
2

ASSESSMENT COMPONENT INVOICE

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

Facility Name: **Former Ryder Truck**

UST Permit #: 11929 **Cost Agreement #:**

ITEM		QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan Preparation**						
A1. Site-specific Work Plan		1	each	$150.00		$150.00
B1. Tax Map			each	$70.00		$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B			each	$250.00		$0.00
2. A1. **Receptor Survey ***			each	$551.00		$0.00
3. **Survey (500 ft x 500 ft)**						
A1. Comprehensive Survey			each	$1,040.00		$0.00
B. Subsurface Geophysical Survey						
1B. < 10 meters below grade			each	$1,300.00		$0.00
2B. > 10 meters below grade			each	$2,310.00		$0.00
C1. Geophysical UST or Drum Survey			each	$910.00		$0.00
4. **Mob/Demob**						
A1. Equipment			each	$1,020.00		$0.00
B1. Personnel		2	each	$423.00		$846.00
C1. Adverse Terrain Vehicle			each	$500.00		$0.00
5. A1. **Soil Borings (hand auger)***			foot	$5.00		$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***						
A1. 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
C1. Telescoping			per foot	$50.00		$0.00
D1. 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
H1. 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		19	per well/receptor	$60.00		$1,140.00
B1. Air or Vapors			per receptor	$12.00		$0.00
C1. Water Supply			per well/receptor	$22.00		$0.00
D1. Groundwater No Purge or Duplicate	1 dup	1	per well/receptor	$28.00		$28.00
E1. Gauge Well only			per well	$7.00		$0.00
F1. Sample Below Product			per well	$12.00		$0.00
G1. Passive Diffusion Bag			each	$26.00		$0.00
H1. Field Blank		1	each	$24.60		$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	22	per sample	$122.00		$2,684.00
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	21	per sample	$45.20		$949.20
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
A2. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered	1	each	$50.00		$50.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
II. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	12%	percent	$5,899.80		$707.98
TOTAL					$6,607.78

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