

# **UNDERGROUND STORAGE TANK CLOSURE REPORT**

**WBS ELEMENT NO. 34749.2.GV2  
NCDOT PROJECT NUMBER U-0209B**

**PARCEL NO. 119  
CIRCLE K STORES, INC. PROPERTY  
6420 IDLEWILD ROAD  
CHARLOTTE, NORTH CAROLINA**

**February 9, 2012**

**Prepared For:**

**Cyrus F. Parker, L.G., P. E.  
North Carolina Department of Transportation  
Geotechnical Engineering Unit  
GeoEnvironmental Section  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589**

**Prepared By:**

**Kleinfelder Southeast, Inc.  
6200 Harris Technology Blvd.  
Charlotte, North Carolina 28269**

**Kleinfelder Project No. 122291**

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**ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.**



Mr. Cyrus F. Parker, LG, PE  
North Carolina Department of Transportation  
Geotechnical Engineering Unit  
GeoEnvironmental Section  
1020 Birch Ridge Drive  
Raleigh, North Carolina 27610

Reference: **UST Closure Report**  
**WBS Element No. 34749.2.GV2**  
**NCDOT Project Number U-0209B**  
**Parcel No. 119 – Circle K Stores, Inc. Property**  
**6420 Idlewild Road**  
**Charlotte, North Carolina**

Dear Mr. Parker:

Kleinfelder is pleased to provide this UST Closure Report summarizing the closure activities of five underground storage tanks (USTs) located at the referenced site. This report summarizes our field activities, observations, and our recommendations and conclusions. We appreciate this opportunity to provide this service to you. Should questions arise or additional information be required, please contact the undersigned.

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Sincerely,

**KLEINFELDER SOUTHEAST, INC.**

Travis L. O'Quinn  
Staff Professional

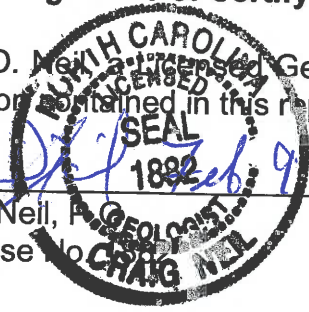
Craig D. Neil P.G.  
Senior Professional

TLO/CDN:jlc  
Attachments

**Seal and Signature of Certifying Licensed Geologist**

I, Craig D. Neil, a Licensed Geologist for Kleinfelder Southeast, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

  
\_\_\_\_\_  
Craig D. Neil, P.  
NC License No.



Kleinfelder Southeast, Inc. is licensed to practice geology and engineering in North Carolina. The certification number of the company is F-1143.

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## 1.0 SITE INFORMATION

The site is located at 6420 Idlewild Road, in Charlotte, North Carolina (Figure 1 and 2). The site consists of one tax parcel (Parcel Number 16501106) which is currently owned by Circle K Stores, Inc. (Circle K). A portion of the site is located within the proposed right-of-way for a North Carolina Department of Transportation (NCDOT) road improvement project (project number U-0209B). A Circle K gasoline station and convenience store is located on the site had recently been using three gasoline underground storage tanks (USTs) located onsite. Two of the USTs were 8,000-gallon in size and one was 6,000-gallon in size. The site also contained two 4,000-gallon gasoline USTs that were previously closed in place using foam. A release from the USTs and product piping was confirmed by Kleinfelder during the Preliminary Site Assessment, dated August 20, 2011 (project number 111989). Subsequently, NCDOT contracted Kleinfelder to conduct UST Closure and Soil Excavation Activities.

## 2.0 FIELD ACTIVITIES

Prior to field activities, a UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service form was completed and sent to North Carolina Department of Environment and Natural Resources (NCDENR). A copy of the form is included in Appendix A.

On December 5, 2011, Kleinfelder personnel along with personnel from A & D Environmental Services, Inc. (A & D) of High Point, North Carolina mobilized to the site. UST closure activities were performed by A&D and observed by Kleinfelder personnel. Prior to excavation, the remaining contents of the USTs were pumped into a vacuum truck (approximate 96 gallons).

When A&D began uncovering the USTs, Kleinfelder noted strong petroleum odors. The soils with petroleum odors were stockpiled during the UST removal process. The top of the USTs were located approximately 4.0 feet below ground surface (bgs). The two 4,000-gallon steel gasoline USTs that were historically closed in placed were removed and stored onsite. Prior to removal of the two 8,000-gallon steel gasoline USTs and the 6,000-gallon steel UST, A&D cleaned the USTs using a pressure washer. A&D also added dry ice to the USTs to displace oxygen. The Mecklenburg County Fire Marshall

was onsite to check the lower explosive limit (LEL) prior to removal. After the Fire Marshall indicated that the USTs were safe to remove, A&D Environmental removed the USTs from the ground. A total of 489 gallons (included liquids generated during cleaning process) of non-hazardous liquid and sludge was pumped from the USTs and transported to A&D's facilities in High Point, North Carolina for disposal. A copy of the liquid material manifest is included in Appendix B.

The USTs were constructed of uncoated steel and appeared to be in fair to good condition. The two 4,000-gallon USTs were 5.33 feet in diameter and 24 feet long; the 6,000-gallon UST was approximately 8 feet in diameter and 16 feet long; and the two 8,000-gallon USTs were approximately 8 feet in diameter and 21.4 feet long. The USTs were loaded onto a lowboy trailer and transported by A&D to A1 Scrap Metal in Concord, North Carolina for disposal. A copy of the tank disposal manifest is included in Appendix C. Photographs of the USTs are included with the site photographs in Appendix D. Upon completing the removal of the USTs, A&D removed the canopy, pump island, and product piping. Following the removal of the USTs, product piping, and dispenser, Kleinfelder collected soil samples in accordance with the NCDENR Guidelines for Site Checks, Tank Closures, and Initial Response and Abatement for UST Releases, dated December 1, 2008. Soil sample locations are included in Figure 3.

The soils generated during the UST removals, along with soils above the proposed right-of-way grade elevation, with petroleum odors or elevated MiniRae 2000 Photoionization Detector (PID) readings were excavated and hauled to Environmental Soils, Inc. in Lattimore, NC for disposal. Kleinfelder observed and documented the removal of 399.81 tons of impacted soils during the UST closures and soil excavation activities. The PID screening locations are included on Figure 4 and the PID readings are included in Table 1. Copies of the soil disposal manifests and weight tickets are included in Appendix E.

Based on the elevated PID readings and strong petroleum odors, Circle K elected to excavate additional soils below the USTs, along the product piping, and at the dispenser island. Circle K contracted with A&D to conduct the over-excavation activities. The over-excavation was conducted on December 12 and 13, 2011. Circle K

excavated 577.22 additional tons of soils. The additional excavation activities was beyond Kleinfelder's scope of services and therefore not shown on the attached figures.

Upon completion of the over-excavation activities, A&D backfilled the excavation with clean fill.

### 3.0 SOIL SAMPLING

Twenty-one soil samples were collected from below the USTs, along the product piping and under the dispenser. Two soil samples (UST-1A and UST-1B) were collected under the 6,000-gallon UST at a depth of approximately 13 feet bgs. Three soil samples (UST-2A, UST-2B, UST-2C, UST-3A, UST-3B, and UST-3C) were collected under each of the 8,000-gallon USTs at a depth of approximately 13 feet bgs. Three soil samples (UST-4A, UST-4B, UST-4C, UST-5A, UST-5B, and UST-5C) were collected under each of the 4,000-gallon USTs at a depth of approximately 11 feet bgs. Three soil samples (PL-1, PL-2, and PL-3) were collected under the four newer double walled fiberglass product lines at approximately 3.0 feet bgs. Three soil samples (PL-4, PL-5, and PL-6) were collected under the three older steel product lines at approximately 3.0 feet bgs. One soil sample (Dispenser) was collected under the dispenser island at approximately 5.0 feet bgs (approximately 4.5 feet of pea gravel was located below the dispenser). The sample locations are shown on Figure 3.

The soil samples under the closed in place USTs and older product piping were analyzed for gasoline range organics (GRO) using EPA Method 8015/5035. The soil samples collected from the newer USTs, product piping, and dispenser were analyzed for GRO using EPA Method 8015/5035 and volatile organic compounds (ethanol only) by EPA Method 8260.

The soil samples were placed in laboratory supplied containers, labeled, and placed in an iced cooler to maintain the samples at approximately 4° Celsius. The soil samples were then submitted to Pace Analytical Services, Inc. (Pace), a North Carolina certified laboratory, located in Huntersville, North Carolina, for chemical analysis. Chain of custody records were maintained throughout the sample collection and transportation processes and are included in Appendix F.

## 4.0 SOIL SAMPLE RESULTS

The laboratory analysis of the soil samples collected during UST closure detected petroleum hydrocarbons at concentrations above the North Carolina Department of Environment and Natural Resources (NCDENR) action levels at the USTs, product piping and dispenser. The laboratory results are summarized in Table 2. The laboratory report and associated chain-of-custody document are included in Appendix F.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our field observations and the results of the laboratory analysis, Kleinfelder presents the following conclusions and recommendations:

- Kleinfelder observed and documented the removal of five USTs, associated product piping, and dispenser.
- Kleinfelder collected closure soil samples under the USTs, associated product piping and dispenser.
- Kleinfelder observed and documented the removal of 399.81 tons of impacted soils during the UST closures and soil excavation activities.
- Laboratory analysis of the soils samples collected under the USTs, associated product piping, and dispenser detected petroleum constituents above the NCDENR's action levels.
- Excavation was backfilled using clean fill from an offsite source.

Based on the results of the laboratory analysis and historical information, Kleinfelder recommends that the responsible party conduct Initial Abatement Actions under the NCDENR Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases.



## 6.0 LIMITATIONS

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage or treatment of hazardous materials within the meaning of any governmental statute, regulation or order. NCDOT is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. NCDOT is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

## **TABLES**

**TABLE 1: PID SCREENING SUMMARY**

Sample ID	Depth (ft)	PID Reading
SW-1	2.5	13.8
SW-2	2.5	<b>51.6</b>
SW-3	2.5	<b>28.7</b>
SW-4	2.5	<b>17.2</b>
SW-5	2.5	15.6
SW-6	2.5	<b>78.4</b>
SW-7	2.5	<b>1,662</b>
SW-8	2.5	<b>664</b>
SW-9	2.5	9.7
SW-10	2.5	<b>35.2</b>
SW-11	2.5	<b>85.2</b>
SW-12	2.5	3.3
SW-13	2.5	0.0
SW-14	2.5	<b>57.8</b>
SW-15	2.5	<b>18.7</b>
SW-16	2.5	13.7
SW-17	2.5	22.9
SW-18	2.5	7.5
SW-19	2.5	0.0
SW-20	2.5	5.4
SW-21	2.5	9.6
SW-22	2.5	0.0
SW-23	2.5	9.5
SW-24	2.5	0.0
SW-25	2.5	0.0
SW-26	2.5	0.0

Values in bold indicates that additional soil was removed within the vicinity of the PID Reading.

**TABLE 2: SOIL SAMPLE ANALYTICAL SUMMARY - UST CLOSURE**

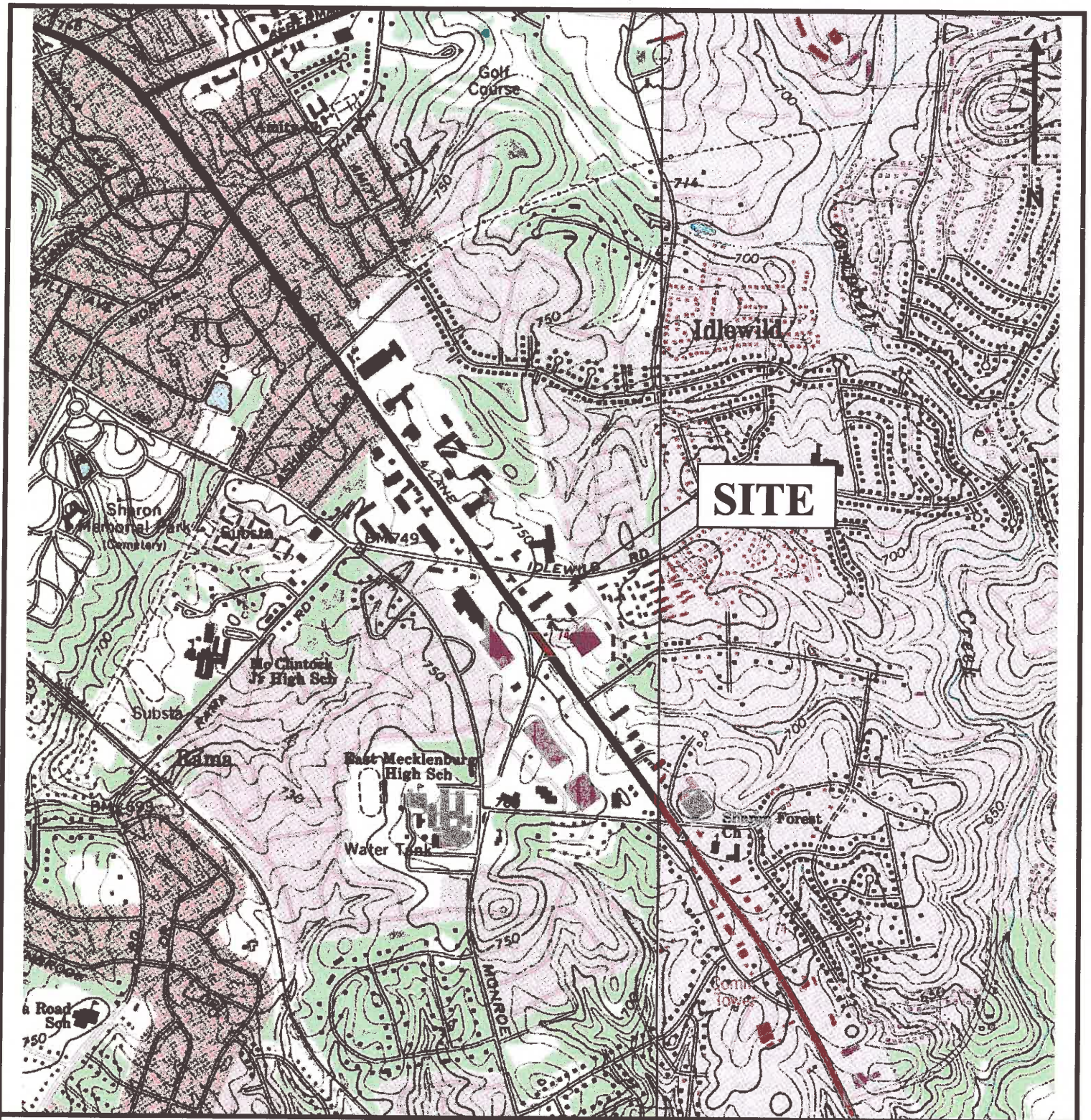
Area of Concern	UST-1		UST-2			NCDENR Action Levels mg/L
	Sample ID	UST-1A	UST-1B	UST-2A	UST-2B	
Depth	13'	13'	13'	13'	13'	
Sample date	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/5/2011	
Parameter						
GRO by EPA Method 8015/5035	1,980	2,390	294	<6.7	<6.5	10
Ethanol by EPA Method 8260	<57.1	<46.7	<9.73	<0.295	<0.225	NA

Area of Concern	UST-3			UST-4			NCDENR Action Levels mg/L
	Sample ID	UST-3A	UST-3B	UST-3C	UST-4A	UST-4B	
Depth	13'	13'	13'	11'	11'	11'	
Sample date	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/5/2011	
Parameter							
GRO by EPA Method 8015/5035	3,320	91	<6.8	582	1,750	<6.4	10
Ethanol by EPA Method 8260	<0.108	<10.7	<0.228	NA	NA	NA	NA

Area of Concern	UST-5			Product Line (New)			NCDENR Action Levels mg/L
	Sample ID	UST-5A	UST-5B	UST-5C	PL-1	PL-2	
Depth	11'	11'	11'	11'	3'	3'	3'
Sample date	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/8/2011	12/8/2011	12/8/2011
Parameter							
GRO by EPA Method 8015/5035	2,310	3,040	701	<6.0	15.7	1,330	10
Ethanol by EPA Method 8260	NA	NA	NA	<0.166	<0.168	<17.0	NA

Area of Concern	Product Line (Old)			Dispenser	NCDENR Action Levels mg/L
	Sample ID	PL-4	PL-5	PL-6	
Depth	3'	3'	3'	5'	
Sample date	12/8/2011	12/8/2011	12/8/2011	12/8/2011	
Parameter					
GRO by EPA Method 8015/5035	1,520	49.7	19.3	149	10
Ethanol by EPA Method 8260	NA	NA	NA	<4.340	NA

## FIGURES



**FIGURE 1  
SITE LOCATION MAP**

**PARCEL #119  
CIRCLE K STORE  
6420 IDLEWILD ROAD  
CHARLOTTE, NORTH CAROLINA**



6200 HARRIS TECHNOLOGY BOULEVARD  
CHARLOTTE, NORTH CAROLINA  
PHONE: 704.598.1049

DATE: 12/29/2011

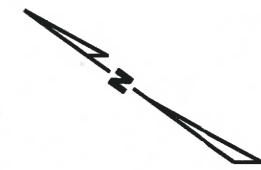
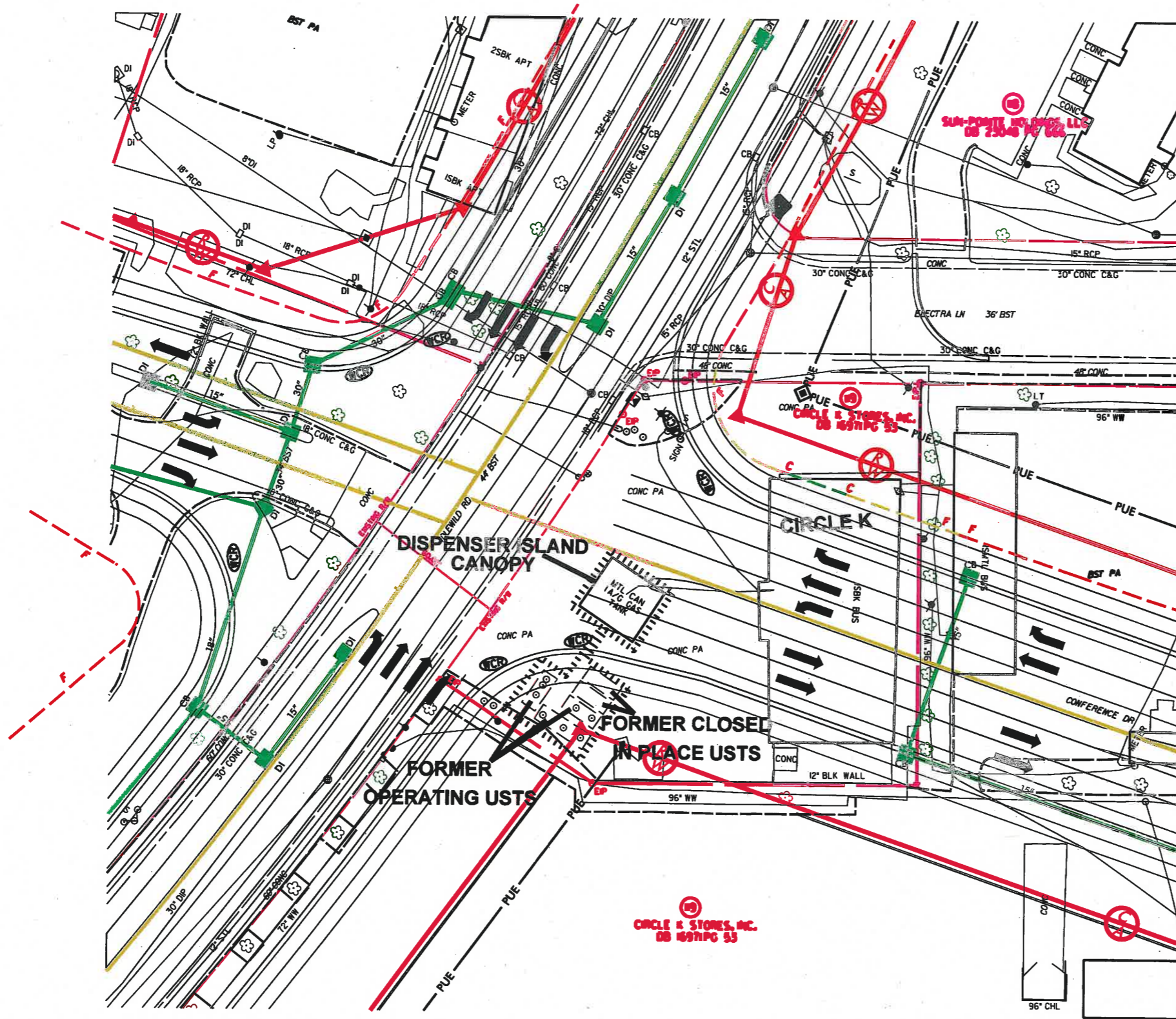
APPROVED BY:

*CDN*











SCALE: 1" = 2,000'

SOURCE: USGS Topographic  
Orthophoto Map, NC Charlotte East 1991

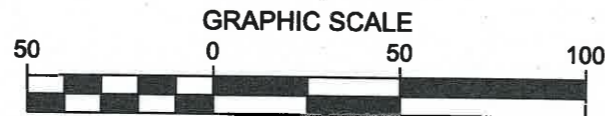
PROJECT NO: 122291



**LEGEND**

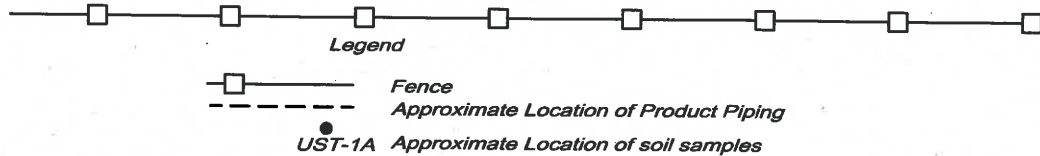
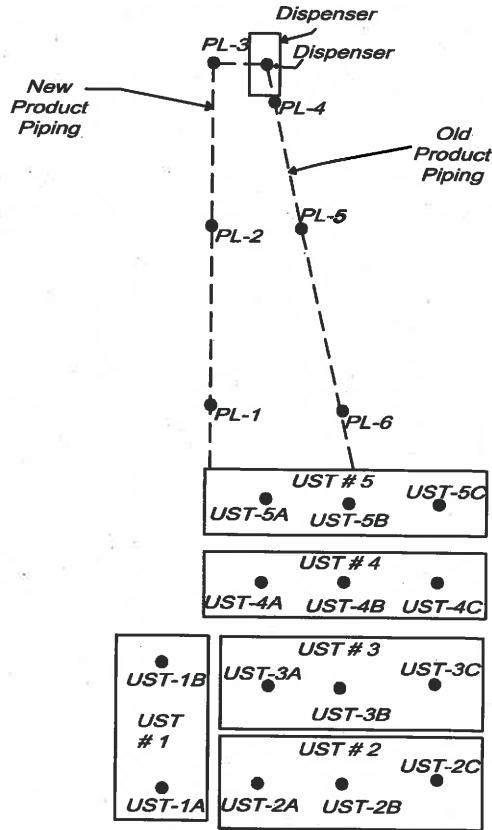
- RIGHT-OF-WAY 
- CONTROLLED ACCESS 
- MANHOLE 
- GAS VALVE 
- UTILITY POLE 
- WATER METER 
- WATER VALVE 
- SHRUB/TREE 
- RIGHT-OF-WAY MARKER 
- AREA OF EXCAVATION 

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PROJECT NO.	122291	<b>SITE MAP</b> <b>PARCEL #119</b> <b>CIRCLE K STORES</b> <b>6420 IDLEWILD ROAD</b>		FIGURE: <b>2</b>
DRAWN:	02/07/2012			
DRAWN BY:	DJH	TIP NO. U-0209B   WBS ELEMENT NO. 34749.2.GV2		
CHECKED BY:	TLO			
SCALE:	1" = 50'	CHARLOTTE, MECKLENBURG COUNTY NORTH CAROLINA		

Idlewild Road



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Scale: 1in = 15ft

ATTACHED IMAGES:  
ATTACHED XREFS:



PROJECT NO.	122291
DRAWN:	DEC 2011
DRAWN BY:	AB
CHECKED BY:	TO
FILE NAME:	119_Figures_test.dwg

**SOIL SAMPLE LOCATION MAP  
WBS ELEMENT 34749.2.GV2  
STATE PROJECT U-0209B**

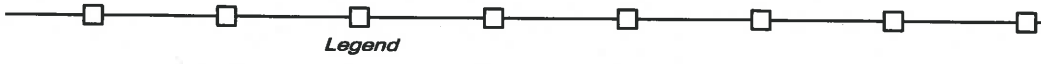
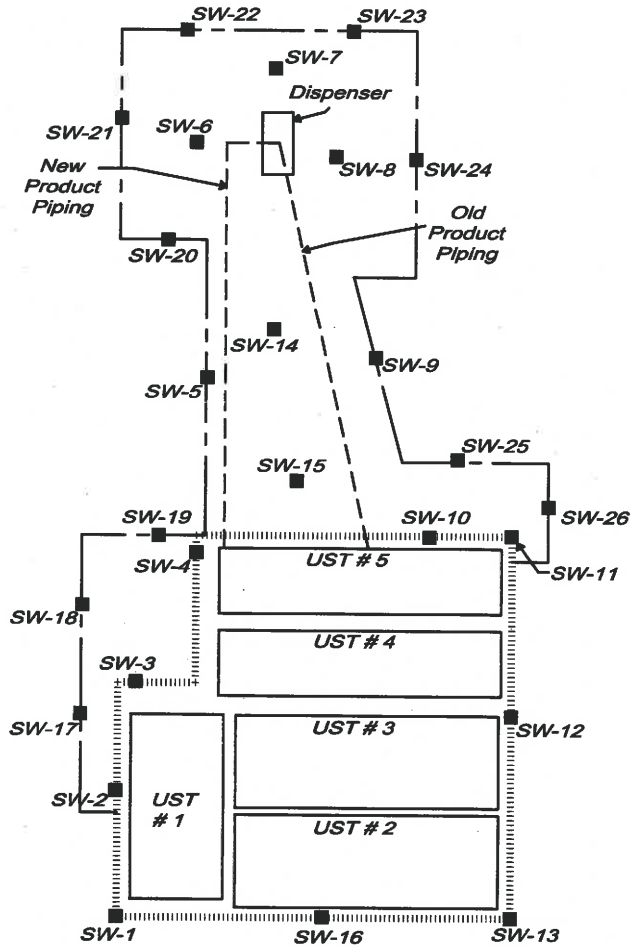
NCDOT  
PARCEL 119 - CIRCLE K  
6420 IDLEWILD ROAD  
CHARLOTTE, NORTH CAROLINA

FIGURE

**3**



Idlewild Road



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Scale: 1in = 15ft  
 Note: Additional excavations performed by Circle K not shown hereon.

ATTACHED IMAGES:  
 ATTACHED XREFS:



PROJECT NO.	122291	<b>SOIL EXCAVATION &amp; PID SCREENING LOCATION</b>	FIGURE
DRAWN:	DEC 2011		
DRAWN BY:	AB	<b>WBS ELEMENT 34749.2.GV2</b>	4
CHECKED BY:	TO		
FILE NAME:	119_Figures_test.dwg	<b>STATE PROJECT U-0209B</b>	
		NCDOT	
		PARCEL 119 - CIRCLE K	
		6420 IDLEWILD ROAD	
		CHARLOTTE, NORTH CAROLINA	

**APPENDIX A**

# UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

**Return completed form to:**

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY  
I.D. # \_\_\_\_\_  
Date Received \_\_\_\_\_

**INSTRUCTIONS (READ THIS FIRST)**

Complete and return at least thirty (30) days prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a five (5) working days notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at [www.wastenotnc.org](http://www.wastenotnc.org).

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS			II. LOCATION		
Owner Name (Corporation, Individual, Public Agency, or Other Entity) <b>Circle K Food Stores, Inc.</b>			Facility Name or Company <b>Circle K Store # 4644</b>		
Street Address <b>2440 Whitcomb Park Drive, Suite 200</b>			Facility ID # (if known) <b>00-0-000000135</b>		
City <b>Charlotte</b>	County <b>Mecklenburg</b>	Street Address <b>6420 Idlewild Road</b>			
State <b>NC</b>	Zip Code <b>28273</b>	City <b>Charlotte</b>	County <b>Mecklenburg</b>	Zip Code <b>28212</b>	
Phone Number <b>704 583-5762</b>			Phone Number <b>704 583-5762</b>		

**III. CONTACT PERSONNEL**

Name: <b>Heather Hermansen</b>	Company Name: <b>Circle K Stores, Inc.</b>	Job Title: <b>Environmental Manager</b>	Phone Number: <b>704 583-5762</b>
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**IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE**

- Contact local fire marshal.
- Plan entire closure event.
- Conduct Site Soil Assessment.
- If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks*.
- Provide a sketch locating piping, tanks and soil sampling locations.
- Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
- If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
- Keep closure records for three (3) years.

**V. WORK TO BE PERFORMED BY**

Contractor Name: <b>Eric McManus</b>		Contractor Company Name: <b>A &amp; D Environmental</b>	
Address: <b>P.O. Box 484 High Point</b>		State: <b>NC</b>	Phone No: <b>536 434-7750</b>
		Zip Code: <b>27261</b>	
Primary Consultant Name: <b>Craig Neil</b>		Primary Consultant Company Name: <b>Kleinfelder</b>	
		Consultant Phone No: <b>704 598-1049</b>	

**VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN SERVICE**

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		
			Removal	Abandonment in Place *	Change-in-Service New Contents Stored
1	9000	Regular	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	9000	Midgrade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	6000	Premium	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

\* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

**VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE**

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: <b>Kurt Blevins Branch Manager ECS</b>			
Signature <b>Kurt Blevins</b>	Date Signed <b>11/30/11</b>	SCHEDULED REMOVAL DATE <b>12/6/11</b>	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes

**APPENDIX B**



# A&D Environmental Services

# Bill of Lading / Material Manifest

A&D Job No: \_\_\_\_\_ Generator ID Number \_\_\_\_\_ Page 1 of \_\_\_\_\_ Emergency Response Phone **800-434-7750** Tracking Number **15387**

Generator's Name and Mailing Address: **CIRCLE K STORES INC**  
**2440 Whitehall Park Dr**  
**CHARLOTTE NC 28273**

Generator's site address (if different from mailing address):  
**6426 Idlewild Rd**  
**Charlotte NC 28212**

Transporter 1  2  Company Name **A&D Environmental Services, Inc.** US EPA ID No: **NCD98623222**

Transporter 1  2  Company Name **A&D Environmental Services (SC), LLC** US EPA ID No: **SCD987598331**

Designated Facility	Designated Facility	Designated Facility	Designated Facility	Designated Facility
<b>A&amp;D Environmental Services, Inc.</b> 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	<b>A&amp;D Environmental Services, Inc.</b> 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	<b>A&amp;D Environmental Services (SC), LLC</b> 1915 Brentwood Street High Point, NC 27280 336-882-8000 NCR000002501	<b>A&amp;D Environmental Services (SC), LLC</b> 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	<b>A&amp;D Environmental Services (SC), LLC</b> 305 B South Main Street Mauldin, SC 29662 803-967-3500 SCD000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
X	Flammable liquid NOS UN 1203 gasoline, 3 II ERG 4.2	1	TT	489	900	

Petroleum Products for Recycle						
	No.	Type	QTY	Wt/Vol	Profile Number	
X	NA1993, Diesel fuel, 3, III		ERG# 128			
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III		ERG# 128			
X	UN1203, Gasoline, 3, II		ERG# 128			
X	NA1270, Petroleum Oil, 3, III		ERG# 128			

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle							
HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)	Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e))	Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)	Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)	Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Officer's Printed/Typed Name: **Philip Pike (AGENT FOR CIRCLE K)** Signature: *Philip Pike* Month: **12** Day: **6** Year: **11**

Transporter 1 Printed/Typed Name: **Rodney Bennettson** Signature: *Rodney Bennettson* Month: **12** Day: **6** Year: **11**

Discrepancy Indication / Additional Information: \_\_\_\_\_ Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name: **Eric D McManus** Signature: *Eric D McManus* Month: **12** Day: **7** Year: **11**

DESIGNATED FACILITY TO GENERATOR

## **APPENDIX C**



# Environmental Services, Inc.

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

## TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address Circle K STORE INC  
2940 Whitehall Park Dr  
CHARLOTTE NC 28273

2) Tank Owner/Authorized Representative: Contact Heather Hermanson  
Phone#: 704-583-5762

3) Description Of Tanks:

<u>Tank No.</u>	<u>Capacity</u>	<u>Previous Contents</u>	<u>Comments</u>
<u>UST-1</u>	<u>6000</u>	<u>Gas</u>	
<u>UST-2</u>	<u>8000</u>	<u>Gas</u>	
<u>UST-3</u>	<u>8000</u>	<u>Gas</u>	

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

Philip Cole Philip Cole 12/6/11  
Printed/Typed Name Signature Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwharrie Road, Archdale, N.C. 27263.

Sean Tucker Sean Tucker 12-6-11  
Printed/Typed Name Signature Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: AI Scrap Metal  
Shelby Carter Shelby Carter 12/1/11  
Printed/Typed Name Signature Month/Day/Year



# Environmental Services, Inc.

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

## TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address CIRCLE K STORES INC  
2440 Whitehall Park Dr  
CHARLOTTE NC 28273

2) Tank Owner/Authorized Representative: Contact Heather Hernandez  
Phone#: 704-583-5762

3) Description Of Tanks:

<u>Tank No.</u>	<u>Capacity</u>	<u>Previous Contents</u>	<u>Comments</u>
<u>UST-4</u>	<u>4000</u>		
<u>UST-4</u>	<u>4000</u>		

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

Philip Pike Philip Pike 12/6/11  
Printed/Typed Name Signature Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwhamie Road, Archdale, N.C. 27263.

Sean Tucker Sean Tucker 12-6-11  
Printed/Typed Name Signature Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: D.H. Griffin Scrap Metals - Gboro, NC

Eric D. McManus Eric D. McManus 12-9-11  
Printed/Typed Name Signature Month/Day/Year





# Environmental Services, Inc.

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

## TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address CIRCLE K STORES INC  
2440 Whitehall Park Dr Suite 800  
Charlotte NC

2) Tank Owner/Authorized Representative: Contact Heather Hermandson  
Phone#: 704-583-5762

3) Description Of Tanks:

<u>Tank No.</u>	<u>Capacity</u>	<u>Previous Contents</u>	<u>Comments</u>
<u>UST-5</u>	<u>4000</u>	<u>As Filled / Empty</u>	<u>(AS DISPOSAL)</u>

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

Philip Pike Philip Pike 12/6/11  
Printed/Typed Name Signature Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwharrie Road, Archdale, N.C. 27263.

Rodney Reinertson Rodney Reinertson 12-6-11  
Printed/Typed Name Signature Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: D.H.G.: Fin Scrap Metals - G'Brien

Eric O'Mann Eric O'Mann 12-9-11  
Printed/Typed Name Signature Month/Day/Year

**APPENDIX D**

**SITE PHOTOGRAPHS**  
Parcel No. 119 Circle K Stores  
Kleinfelder Project No. 122291



Photograph 1 – View of the Circle K.



Photograph 2 – View of the dispenser island.

**SITE PHOTOGRAPHS**  
Parcel No. 119 Circle K Stores  
Kleinfelder Project No. 122291



Photograph 3 – View of the UST basin.



Photograph 4 – View of A&D vacuuming product from the USTs.

**SITE PHOTOGRAPHS**  
Parcel No. 119 Circle K Stores  
Kleinfelder Project No. 122291



**Photograph 5 – View of the removal of UST #5.**



**Photograph 6 – View of UST #4.**

**SITE PHOTOGRAPHS**  
Parcel No. 119 Circle K Stores  
Kleinfelder Project No. 122291



Photograph 7 – View of UST #2 and #3.



Photograph 8 – View of UST #1 and #2.

**SITE PHOTOGRAPHS**  
Parcel No. 119 Circle K Stores  
Kleinfelder Project No. 122291



Photograph 9 – View of old and new product piping.



Photograph 10– View of dispenser island area.

**SITE PHOTOGRAPHS**  
Parcel No. 119 Circle K Stores  
Kleinfelder Project No. 122291



Photograph 11 – View of UST basin following the UST removal.



Photograph 12– View of the backfilled excavation.



**APPENDIX E**

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089

Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 30140

Date 12/6/11 Load Number 1

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIANCE SERVICES NC

Contact: Phil Pika Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores, Inc

Address: 6470 2490 Whitehall Park Dr, Suite 200 County:

Contact: Heather Hermanson Phone: 704-583-5767

WASTE ORIGINATION POINT: Complete Address: SAME AS ABOVE

Class & Type of Contaminate in soil

SOURCE OF CONTAMINATION: (ex. UST or other source)

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: Phil Pika (Agent For Circle K) Date: 12/6/11

TRANSPORTER: RAL Hauling Inc.

Contact: Andy Lee Phone: 980 522 1764

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: [Signature] Date: 12-6-11

TRUCK #: RAL 1 TAG #: [Signature] VOLUME: 67980 / 32820 = 45180 - 22.59

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12-6-11

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 State of North Carolina.

Facility Signature: Ray Towerzy Date: 12/6/11

Signature: William Brown Date: 12/6/11

Company Name EST Title:

White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

ENVIRONMENTAL SOILS, INC.  
P.O. BOX 295  
LATTIMORE, N.C. 28086-0489  
704/434-0075  
(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# RAL-1

Gross Wgt.: LRCS 67980 lb  
IN 29AM 12/06/2011

Tare Wgt: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_  
NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768

Weighed by: \_\_\_\_\_  
INVALID UNLESS SIGNED

ENVIRONMENTAL SOILS, INC.  
P.O. BOX 295  
LATTIMORE, N.C. 28086-0489  
704/434-0075  
(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# RAL-1

Gross Wgt.: \_\_\_\_\_

Tare Wgt: LRCS 27900 lb  
IN 31AM 12/06/2011 TARE

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_  
NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768

Weighed by: \_\_\_\_\_  
INVALID UNLESS SIGNED

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089

Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 30130

Date 12/6/11 Load Number 2

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Cuck & Spores Inc.

Address: 2490 Whitford Park Dr. Charlotte NC County: Mecklenburg

Contact: Heather Hegmannsen Phone: 704-583-5162

WASTE ORIGINATION POINT: Complete Address: 544

Class & Type of Contaminate in soil

SOURCE OF CONTAMINATION: (ex. UST or other source)

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: (Signature) Date: 12/6/11

TRANSPORTER: McGIRT

Contact: STEVE MCGIRT Phone: 704-588-8527

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: (Signature) Date: 12/6/11

TRUCK #: MT-49 TAG #: VOLUME: 41,400 = 30.57

TRUCK DRIVER SIGNATURE: (Signature) DATE: 12-6-11

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 State of North Carolina.

Facility Signature: RAY TOWER Date: 12/6/11

Signature: (Signature) Date: 12/6/11

Company Name EST Title:

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# MT-49

Gross Wgt.: \_\_\_\_\_

Tare Wgt: \_\_\_\_\_ **TARE**

~~GROSS~~ 25440 lb

12:05PM 12/06/2011

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768

Weighed by: Ray Towery

INVALID UNLESS SIGNED

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# MT-49

Gross Wgt.: \_\_\_\_\_

~~GROSS~~ 67530 lb

12:03PM 12/06/2011

Tare Wgt: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768

Weighed by: Ray Towery

INVALID UNLESS SIGNED

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089

Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 30131

Date 12/6/11 Load Number 3

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores, Inc.

Address: 2440 Whitehall Park Dr., Charlotte, NC County: Mecklenburg

Contact: Heather Hermonson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address:

Class & Type of Contaminate in soil

SOURCE OF CONTAMINATION: (ex. UST or other source)

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: Phil Pike (AGENT for Circle K Stores) Date: 12/6/11

TRANSPORTER:

Contact: Phone:

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: MCGIRT Date:

TRUCK #: MT-45 TAG #: VOLUME: 66780 26600 30180 = 20.09

TRUCK DRIVER SIGNATURE: Kenneth She DATE: 12/6/11

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 State of North Carolina.

Facility Signature: Ray Towery Date: 12/6/11

Signature: William Brown Date: 12/6/11

Company Name: ESP Title:

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# 10 45

Gross Wgt.:	GROSS	66730 lb
	TARE	26600 lb KEVED
	NET	40180 lb

Tare Wgt: 12/08/2011 12:14PM

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31788  
*Ray Towery*

Weighed by: INVALID UNLESS SIGNED

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089

Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 30132

Date 12/6/11 Load Number 4

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services Inc

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores Inc

Address: 2440 Whitehall Park Dr, CHARLOTTE NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6420 Idlewild Rd

CHARLOTTE NC 28212

Class & Type of Contaminate in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: Philip Pike (AGENT FOR Circle K store) Date: 12/6/11

TRANSPORTER: RAL Hauling Inc

Contact: Andy Lee Phone (780) 522-1764

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: [Signature] Date: 12-6-11

TRUCK #: RAL 1 TAG #: [Blank] VOLUME: 66000 23800 43200-21.60

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12-6-11

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 State of North Carolina.

Facility Signature: RAY Tower [Signature] Date: 12/6/11

Signature: William Brown Date: 12/6/11

Company Name EST Title: [Blank]



**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# \_\_\_\_\_

GROSS	56000 lb
TARE	22800 lb KEYED
NET	43200 lb

Gross Wgt.: \_\_\_\_\_

12/06/2011 02:32PM

Tare Wgt: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_ 27.60

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768

Tons: \_\_\_\_\_

~~INVALID UNLESS SIGNED~~

Weighed by: \_\_\_\_\_

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30133**

Date 12/6/11 Load Number 7

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services, Inc.

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Cinder K. Stone

Address: 2990 Whitehall Park Dr Charlotte NC County: Mecklenburg

Contact: Heather Heiman Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6450 Edgewood Rd

Charlotte NC 28212

Class & Type of Contaminant in soil Gas

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

**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: Phil Pike (Agent for Cinder K. Stone) Date: 12/6/11

TRANSPORTER: McCart Trucking

Contact: Steve McGint Phone: 704-588-8527

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: \_\_\_\_\_ Date: \_\_\_\_\_

TRUCK #: MT-49 TAG #: \_\_\_\_\_ VOLUME: 67620  
26480  
41180 - 20.59

TRUCK DRIVER SIGNATURE: Ray DATE: 12-6-11

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 State of North Carolina.

Facility Signature: Ray Tower Date: 12/6/11

Signature: William Brown Date: 12/6/11

Company Name ES Title: \_\_\_\_\_

White/Facility      Canary/Invoice      Pink/Carrier      Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295**

**LATTIMORE, N.C. 28086-0489**

**704/434-0075**

**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** 10 49

<b>Gross</b>	<u>67620 lb</u>
<b>Tare</b>	<u>26440 lb KEED</u>
<b>Gross Wgt.:</b>	<u>NET 41180 lb</u>

12/06/2011 03:31PM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

**NORTH CAROLINA**

**PUBLIC WEIGHMASTER**

**LICENSE EXPIRES JUNE 30, 2011**

**RAY TOWERY 31768**

**Weighed by:** \_\_\_\_\_

**INVALID UNLESS SIGNED**

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30134**

Date 12/6/11 Load Number 6  
(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pitt Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores Inc

Address: 2440 Whitehall Park Dr. Charlotte NC County: Mecklenburg

Contact: Mathew Hermansen Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6420 Edgewood Dr  
Charlotte NC 28212

Class & Type of Contaminate in soil Gas

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

**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: Phil Pitt (AGENT FOR Circle K stores) Date: 12/6/11

TRANSPORTER:

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_

TRUCK #: M 7-45 TAG #: \_\_\_\_\_ VOLUME: 4420 - 22.06

TRUCK DRIVER SIGNATURE: Hermett Stine DATE: 12/6/11

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 State of North Carolina.

Facility Signature: RAY Tower Date: 12/6/11

Signature: William Brown Date: 12/6/11

Company Name ESI Title: \_\_\_\_\_

**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295  
LATTIMORE, N.C. 28086-0489**

**704/434-0075  
(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** 10 43

<b>Gross Wgt.:</b>	GROSS	70720 lb
	TARE	26600 lb KEYED
	NET	44120 lb

**Tare Wgt:** \_\_\_\_\_  
12/06/2011 03:19PM

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_  
NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31788  
*Ray Jewery*  
INVALID UNLESS SIGNED

**Weighed by:** \_\_\_\_\_

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30135**

Date 12/6/11 Load Number 7

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Riker Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores Inc

Address: 2446 Whitehall Park Dr. Charlotte NC County: Mecklenburg

Contact: Weather Hermanson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6470 Idlewild Rd

Charlotte NC 28212

Class & Type of Contaminate in soil GPS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

**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: Phil Riker (agent for Circle K) Date: 12/6/11

TRANSPORTER: RAL Hauling Inc.

Contact: Andy Lee Phone: 980 562 1764

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: [Signature] Date: 12-6-11

TRUCK #: RAL 1 TAG #: [Signature] VOLUME: 68000  
22500  
45200-22.60

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12-6-11

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 State of North Carolina.

Facility Signature: Ray Towery Date: 12/6/11

Signature: William Brown Date: 12/6/11

Company Name ESI Title: \_\_\_\_\_

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295**

**LATTIMORE, N.C. 28086-0489**

**704/434-0075**

**(704) 434-9533 FAX**

Job Name: \_\_\_\_\_

Truck# \_\_\_\_\_

Gross Wgt.: 

GROSS	68000 lb
TARE	22800 lb KEYED
NET	45200 lb

12/06/2011 05:20PM

Tare Wgt: \_\_\_\_\_

Net Wgt.: 22.60

Tons: \_\_\_\_\_

Weighed by: 

<b>NORTH CAROLINA</b>	
<b>PUBLIC WEIGHMASTER</b>	
<b>LICENSE EXPIRES JUNE 30, 2011</b>	
<b>RAY TOWERY</b>	<b>31768</b>
<i>Ray Towery</i>	
<b>INVALID UNLESS SIGNED</b>	

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30136**

Date 12/7/11 Load Number 8

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIANCE SERVICES NC

Contact: Phil Bk Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: CIRCLE K STORES INC

Address: 2440 Whitehall Park Dr. suite 800 Charlotte NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6426 Idemild Rd  
Charlotte NC 28212

Class & Type of Contaminant in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

**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: [Signature] Date: 12/7/11

TRANSPORTER: RAL Hauling Inc.

Contact: Andy Lee Phone: 980 522 1764

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: [Signature] Date: 12-7-11

TRUCK #: RAL2 TAG #: [Signature] VOLUME: 69060  
32800  
46260 - 23.13

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12-7-11

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 State of North Carolina.

Facility Signature: RAY TOWERY Date: 12/7/11

Signature: William Brown Date: 12/7/11

Company Name ES7 Title: \_\_\_\_\_

White/Facility      Canary/Invoice      Pink/Carrier      Goldenrod/Generator



**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295**

**LATTIMORE, N.C. 28086-0489**

**704/434-0075**

**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** 10 1

<b>Gross Wgt.:</b>	<b>GROSS</b>	59060 lb
	<b>TARE</b>	22800 lb KEYS
	<b>NET</b>	46260 lb

12/07/2011 11:23AM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

**NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768**

**Weighed by:** Ray Towery

INVALID UNLESS SIGNED

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PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30137**

Date 12/7/11 Load Number 9  
(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: CIRCLE K STORES INC.

Address: 2440 Whitehall Park Dr Site 200, Charlotte NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-583-5762

WASTE ORIENTATION POINT: Complete Address: Office ID# 2010 10  
Charlotte NC 28212

Class & Type of Contaminant in soil Gas

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

**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: Phil Pike Date: 12/7/11

TRANSPORTER: McGirt Trucking

Contact: Steve McGirt Phone: 704-588-8527

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: \_\_\_\_\_ Date: \_\_\_\_\_

TRUCK #: 11T-49 TAG #: 7 VOLUME: 67980  
26450  
41540-20.77

TRUCK DRIVER SIGNATURE: Ray DATE: 12-7-11

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 State of North Carolina.

Facility Signature: Ray Tower Date: 12/7/11

Signature: William B. Brown Date: 12/7/11

Company Name GSI Title: \_\_\_\_\_

White/Facility      Canary/Invoice      Pink/Carrier      Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**  
P.O. BOX 295  
LATTIMORE, N.C. 28086-0489  
704/434-0075  
(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# \_\_\_\_\_

Gross Wgt.:	GRUSS	67900 lb
	TARE	26440 lb KEVED
	NET	41540 lb

Tare Wgt: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31788

Weighed by: Ray Towery  
INVALID UNLESS SIGNED

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30138**

Date 12/7/11 Load Number 10

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Phone: 704-583-2111 Fax: 704-583-2744

GENERATOR: Circle K Stores Inc

Address: 2440 Whitehall Park Dr. Suite 500 Charlotte NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6420 Edgewood Rd  
Charlotte NC 28212

Class & Type of Contaminant in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: [Signature] Date: 12/7/11

TRANSPORTER: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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: McGirt Date: 12/7/11

TRUCK #: MIT 45 TAG #: \_\_\_\_\_ VOLUME: 62940  
56600  
30340-18.17

TRUCK DRIVER SIGNATURE: Kenneth Zane DATE: 12/7/11

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 State of North Carolina.

Facility Signature: RAY TOWERY Date: 12/7/11

Signature: William Brown Date: 12/7/11

Company Name ESI Title: \_\_\_\_\_

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**  
P.O. BOX 295  
LATTIMORE, N.C. 28086-0489  
704/434-0075  
(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# 10 45

Gross Wgt.:	GROSS	62940 lb
	TARE	26600 1E KEYED
	NET	36340 lb

12/07/2011 10:51AM

Tare Wgt: \_\_\_\_\_

Net Wgt: \_\_\_\_\_

Tons: \_\_\_\_\_

Weighed by: Ray Lowery  
NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAYTOWERY 31788  
NO ID UNLESS SIGNED

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30139**

Date 12/7/11 Load Number 11

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K STORES INC

Address: 2446 Whitehall Park Pt. Suite 500 Charlotte NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6426 Idlewild Rd  
Charlotte NC 28212

Class & Type of Contaminate in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: [Signature] Date: 12/7/11

TRANSPORTER: RAL Hauling Inc.

Contact: Andy Lee Phone: 980 522 1767

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: [Signature] Date: 12-7-11

TRUCK #: RAL1 TAG #: \_\_\_\_\_ VOLUME: 64380  
32800  
41580 - 20.79

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12-7-11

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 State of North Carolina.

Facility Signature: RAY TOWERY Date: 12/7/11

Signature: William Brown Date: 12/7/11

Company Name: ESSE Title: \_\_\_\_\_

**ENVIRONMENTAL SOILS, INC.**  
**P.O. BOX 295**  
**LATTIMORE, N.C. 28086-0489**  
**704/434-0075**  
**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** 101

<b>Gross</b>	64380 lb
<b>Tare</b>	22800 lb KE/ED
<b>Gross Wgt.:</b>	<b>NET</b> 41580 lb

12/07/2011 12:30PM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768

**Weighed by:** Ray Towery

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PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 39460

Date 12/7/11 Lead Number 12

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Service, Inc.

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores, Inc.

Address: 2440 Whitehall Park Dr. Suite 500 Charlotte NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-583-3762

WASTE ORIGIN POINT: Complete Address: 6420 IODE WOOD AV

CHARLOTTE NC

Class & Type of Contaminate in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) CSA

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: Phil Pike Date: 12/7/11

TRANSPORTER:

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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: MEG:pt Date: 12/7/11

TRUCK #: MT 451 TAG #: \_\_\_\_\_ VOLUME: 65700  
36600  
39100-19.55

TRUCK DRIVER SIGNATURE: Kenneth Silve DATE: 12/7/11

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 State of North Carolina.

Facility Signature: Ray Tower Date: 12/7/11

Signature: William Brown Date: 12/7/11

Company Name EST Title: \_\_\_\_\_

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator



**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# TD 45

Gross Wgt.: 

GROSS	65700 lb
TARE	26600 lb KEYS
NET	39100 lb

12/07/2011 02:01PM

Tare Wgt: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA

PUBLIC WEIGHMASTER

LICENSE EXPIRES JUNE 30, 2011

RAY TOWERY 31788

Weighed by: Ray Towery

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Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 39461

Date 12/10/11 Load Number 13

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores Inc

Address: 2440 Whitehall Park or Suite 806 Charlotte NC County: Mecklenburg

Contact: Heather Homan Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6240 Fox Wild Rd

CHARLOTTE NC 28212

Class & Type of Contaminate in soil Gas

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: [Signature] Date: 12/7/11

TRANSPORTER: McGirt Trucking

Contact: Steve McGirt Phone: 704-588-8527

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: \_\_\_\_\_ Date: \_\_\_\_\_

TRUCK #: MT-49 TAG #: \_\_\_\_\_ VOLUME: 64760 19.16  
26442  
38320 - 19.16

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12-7-11

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 State of North Carolina.

Facility Signature: Ray Tower Date: 12/7/11

Signature: William Brown Date: 12/7/11

Company Name EST Title: \_\_\_\_\_

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**  
**P.O. BOX 295**  
**LATTIMORE, N.C. 28086-0489**  
**704/434-0075**  
**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** TD 48

<b>Gross Wgt.:</b>	GROSS	64760 lb
	TARE	26440 lb KEVED
	NET	38320 lb

12/07/2011 01:42PM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

**Weighed by:** RAY TOWERY  
*Ray Towery*

**NORTH CAROLINA**  
**PUBLIC WEIGHMASTER**  
**LICENSE EXPIRES JUNE 30, 2011**  
**31768**  
**INVALID LICENSE SIGNED**

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 39462

Date 12/8/11 Load Number 14

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Service, NC

Contact: Phil Lee Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K stores, INC

Address: 2440 Whitehall Park Dr Suite 800 Charlotte, NC County: Mecklenburg

Contact: Heather Hermanson Phone: 704-5835762

WASTE ORIGINATION POINT: Complete Address: 60420 IDGELWOOD RD

Charlotte NC 2812

Class & Type of Contaminate in soil BASE

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: Cheryl Cole Date: 12/8/11

TRANSPORTER: RAL Heulin Inc

Contact: Andy Lee Phone: 980 522 1764

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: Andy Lee Date: 12-8-11

TRUCK #: RAL7 TAG #: 67360 VOLUME: 32800  
44560 - 22.28

TRUCK DRIVER SIGNATURE: Andy Lee DATE: 12-8-11

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 State of North Carolina.

Facility Signature: Ray Tower Date: 12/8/11

Signature: William Brown Date: 12/8/11

Company Name ESI Title: \_\_\_\_\_

White/Facility      Canary/Invoice      Pink/Carrier      Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295**

**LATTIMORE, N.C. 28086-0489**

**704/434-0075**

**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** \_\_\_\_\_

GROSS 67360 lb  
TARE 22800 lb KEYED  
NET 44560 lb

**Gross Wgt.:** \_\_\_\_\_

12/09/2011 03:01PM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

**NORTH CAROLINA  
PUBLIC WEIGHMASTER**

**LICENSE EXPIRES JUNE 30, 2011<sup>1</sup>**

**RAY TOWERY 31768**

**Weighed by:** \_\_\_\_\_

**VALID UNLESS SIGNED**

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089

Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 30141

Date: 12/9/11 Load Number 15

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K Stores Inc

Address: 2440 Whitehall Park Dr Suite 800 Charlotte NC County: Mecklenburg

Contact: Heather Hermandson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6420 Inglewood Rd Charlotte NC 28212

Class & Type of Contaminant in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: [Signature] Date: 12/9/11

TRANSPORTER:

Contact: Phone:

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: [Signature] Date: 12/9/11

TRUCK #: MT45 TAG #: VOLUME: 63600 / 37040 = 18.52

TRUCK DRIVER SIGNATURE: [Signature] DATE: 12/9/11

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 State of North Carolina.

Facility Signature: [Signature] Date: 12/9/11

Signature: [Signature] Date: 12/9/11

Company Name: EST Title:

White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# \_\_\_\_\_

Gross Wgt.: \_\_\_\_\_

Tare Wgt.: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

Weighed by: \_\_\_\_\_

10 55  
GROSS 53640 LB  
TARE 26600 LB KEVED  
NET 27040 LB

12/08/2011 09:57AM

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31768  
RAY TOWERY  
INITIAL INITIALS FOR SIGNER

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089

Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 30142

Date 12/9/11 Load Number 16

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: CIRCLE K STORES INC.

Address: 2440 Whitcomb Park Dr. site ECU Charlotte County: Mecklenburg

Contact: Heather Hermonson Phone: 704-583-5782

WASTE ORIGINATION POINT: Complete Address: 6424 IOWANNA RD CHARLOTTE NC 28212

Class & Type of Contaminant in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: Phil Pike Date: 12/9/11

TRANSPORTER: Blue MAX

Contact: Phone:

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: Blue MAX Date: 12/9/11

TRUCK #: 126 TAG #: VOLUME: 1940 2150 25360 - 22.68

TRUCK DRIVER SIGNATURE: Charles Howard DATE: 12/9/11

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 State of North Carolina.

Facility Signature: RAY TOWERY Date: 12/9/11

Signature: William Brown Date: 12/9/11

Company Name EST Title:

White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator



**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# # 126

Gross Wgt.: \_\_\_\_\_

Tare Wgt: ~~26580 lb~~ TARE  
10:11AM 12/09/2011

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
Weighed by: Ray Towery 31768  
INVALID UNLESS SIGNED

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# # 126

Gross Wgt.: GROSS 71940 lb

Tare Wgt: \_\_\_\_\_  
10:04AM 12/09/2011

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
Weighed by: Ray Towery 31768  
INVALID UNLESS SIGNED

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30143**

Date 12/9/11 Load Number 17

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIANCE SERVICES NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: CIRCLE K STORES INC

Address: 2440 Whitehall Park Dr. Suite 800 Charlotte County: Mecklenburg

Contact: Weather Hermonson Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6420 Idlewild Rd

Charlotte NC 28212

Class & Type of Contaminate in soil Gas

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: Cheryl Pike Date: 12/9/11

TRANSPORTER:

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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: \_\_\_\_\_ Date: 12/9/11

TRUCK #: MT 30 TAG #: \_\_\_\_\_ VOLUME: 68540  
58560  
41780 - 20.99

TRUCK DRIVER SIGNATURE: Nike DATE: 12/9/11

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 State of North Carolina.

Facility Signature: Ray Tower Date: 12/9/11

Signature: William Brown Date: 12/9/11

Company Name EST Title: \_\_\_\_\_

White/Facility      Canary/Invoice      Pink/Carrier      Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# MT-30

Gross Wgt.: \_\_\_\_\_

Tare Wgt: 26540 lb TARE  
10:12AM 12/09/2011

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_  
NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31788

Weighed by: Ray Towery  
INVALID UNLESS SIGNED

**ENVIRONMENTAL SOILS, INC.**

P.O. BOX 295

LATTIMORE, N.C. 28086-0489

704/434-0075

(704) 434-9533 FAX

Job Name: \_\_\_\_\_

Truck# MT-30

Gross Wgt.: GROSS 68540 lb  
10:02AM 12/09/2011

Tare Wgt: \_\_\_\_\_

Net Wgt.: \_\_\_\_\_

Tons: \_\_\_\_\_  
NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY TOWERY 31788

Weighed by: Ray Towery  
INVALID UNLESS SIGNED

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0975 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30144**

Date 12/9/11 Load Number 18

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services

Contact: Phil Rike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K stores inc

Address: 2440 Whitcomb Park Dr. Suite 800 Charlotte NC County: Mecklenburg

Contact: \_\_\_\_\_ Phone: 704-583-5762

WASTE ORIGIN POINT: Complete Address: 6420 JENSEN RD

Charlotte NC 28212

Class & Type of Contaminant in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

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: Phil Rike Date: 12/9/11

TRANSPORTER: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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: Charles Gordo Date: 12/9/11

TRUCK #: 126 TAG #: \_\_\_\_\_ VOLUME: 72700  
36580  
46120 - 23.06

TRUCK DRIVER SIGNATURE: Charles Gordo DATE: 12/9/11

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 State of North Carolina.

Facility Signature: Ray Towery Date: 12/9/11

Signature: William Brown Date: 12/9/11

Company Name ESI Title: \_\_\_\_\_

White/Facility      Canary/Invoice      Pink/Carrier      Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295**

**LATTIMORE, N.C. 28086-0489**

**704/434-0075**

**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

**Truck#** \_\_\_\_\_

10 126

**Gross Wgt.:** \_\_\_\_\_

GROSS 72700 LB  
TARE 26580 LB KEYS  
NET 46120 LB

12/09/2011 01:13PM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2011  
RAY JOWERY 31788

**Weighed by:** \_\_\_\_\_

*Ray Jowery*  
INVALID UNLESS SIGNED

Environmental Soils Inc.  
PO Box 295 • Lattimore, NC 28089  
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **30145**

Date 12/9/11 Load Number 19  
(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Environmental Compliance Services NC

Contact: Phil Pike Phone: 704-583-2711 Fax: 704-583-2744

GENERATOR: Circle K STORES INC

Address: 2410 Whitehall Park Dr Suite 800 Charlotte NC County: Mecklenburg

Contact: \_\_\_\_\_ Phone: 704-583-5762

WASTE ORIGINATION POINT: Complete Address: 6420 ILEXWOOD RD

Charlotte NC 28212

Class & Type of Contaminant in soil GAS

SOURCE OF CONTAMINATION: (ex. UST or other source) UST

**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: Phil Pike Date: 12/9/11

TRANSPORTER: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_

TRUCK #: MT-45 TAG #: \_\_\_\_\_ VOLUME: 67820  
5600  
41220 - 20.6

TRUCK DRIVER SIGNATURE: Bernetha She DATE: 12/9/11

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 State of North Carolina.

Facility Signature: RAY TOWERY Date: 12/9/11

Signature: William Brown Date: 12/9/11

Company Name: ESI Title: \_\_\_\_\_

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

**ENVIRONMENTAL SOILS, INC.**

**P.O. BOX 295**

**LATTIMORE, N.C. 28086-0489**

**704/434-0075**

**(704) 434-9533 FAX**

**Job Name:** \_\_\_\_\_

10 45

**Truck#** \_\_\_\_\_

GROSS	57520 lb
TARE	26600 lb KEYED
NET	41220 lb

**Gross Wgt.:** \_\_\_\_\_

12/09/2011 01:20PM

**Tare Wgt:** \_\_\_\_\_

**Net Wgt.:** \_\_\_\_\_

**Tons:** \_\_\_\_\_

**NORTH CAROLINA**

**PUBLIC WEIGHMASTER**

**LICENSE EXPIRES JUNE 30, 2011**

**RAY TOWERY 34768**


**Weighed by:** Ray Towery

**INVALID IN TINI LESS SIGNED**


2012

NOT TRANSFERABLE  
STATUTE 09 01, 10A, 11A

NORTH CAROLINA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES  
STEVE TROXLER, COMMISSIONER  
LICENSE / CERTIFICATE



SIGNATURE OF LICENSEE



LICENSE/CERTIFICATE NO.

31768

LICENSE/CERTIFICATE Public Weightmaster

EXPIRATION DATE 06/30/2012

Seal Number: 31768

LICENSEE TOWERY, RAY

OR ENVIRONMENTAL SOILS

CERTIFICATOR P O BOX 295

LATTMORE NC 28060

THIS LICENSE/CERTIFICATE MAY BE SUBJECT TO REVOCATION OR SUSPENSION AS PROVIDED BY LAW.

Received Time Jan. 24. 2012 11:25AM No. 5856



**APPENDIX F**

December 19, 2011

Mr. Travis O'Quinn  
Kleinfelder, Inc.  
6200 Harris Technology Blvd  
Charlotte, NC 28269

RE: Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

Dear Mr. O'Quinn:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,



Charles Hardin

charles.hardin@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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**Pace Analytical Services, Inc.**  
205 East Meadow Road - Suite A  
Eden, NC 27288  
(336)623-8921

**Pace Analytical Services, Inc.**  
2225 Riverside Dr.  
Asheville, NC 28804  
(828)254-7176

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

### CERTIFICATIONS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

#### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Virginia Drinking Water Certification #: 00213

Connecticut Certification #: PH-0104  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DHH Drinking Water # LA 100031  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460144

### REPORT OF LABORATORY ANALYSIS



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Asheville, NC 28804  
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Pace Analytical Services, Inc.  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

### SAMPLE SUMMARY

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92108100001	UST-5A	Solid	12/05/11 14:00	12/08/11 15:50
92108100002	UST-5B	Solid	12/05/11 14:05	12/08/11 15:50
92108100003	UST-5C	Solid	12/05/11 14:10	12/08/11 15:50
92108100004	UST-4A	Solid	12/05/11 14:30	12/08/11 15:50
92108100005	UST-4B	Solid	12/05/11 14:35	12/08/11 15:50
92108100006	UST-4C	Solid	12/05/11 14:40	12/08/11 15:50
92108100007	PL-4	Solid	12/08/11 11:35	12/08/11 15:50
92108100008	PL-5	Solid	12/08/11 11:40	12/08/11 15:50
92108100009	PL-6	Solid	12/08/11 11:45	12/08/11 15:50
92108100010	UST-3A	Solid	12/06/11 13:10	12/08/11 15:50
92108100011	UST-3B	Solid	12/06/11 13:15	12/08/11 15:50
92108100012	UST-3C	Solid	12/06/11 13:20	12/08/11 15:50
92108100013	UST-2A	Solid	12/06/11 13:25	12/08/11 15:50
92108100014	UST-2B	Solid	12/06/11 13:30	12/08/11 15:50
92108100015	UST-2C	Solid	12/06/11 13:35	12/08/11 15:50
92108100016	UST-1A	Solid	12/06/11 14:05	12/08/11 15:50
92108100017	UST-1B	Solid	12/06/11 14:10	12/08/11 15:50
92108100018	PL-1	Solid	12/08/11 11:20	12/08/11 15:50
92108100019	PL-2	Solid	12/08/11 11:25	12/08/11 15:50
92108100020	PL-3	Solid	12/08/11 11:30	12/08/11 15:50
92108100021	DISPENSER	Solid	12/08/11 11:50	12/08/11 15:50

### REPORT OF LABORATORY ANALYSIS

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 (828)254-7176

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

**SAMPLE ANALYTE COUNT**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92108100001	UST-5A	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
92108100002	UST-5B	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
92108100003	UST-5C	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
92108100004	UST-4A	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
92108100005	UST-4B	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100006	UST-4C	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100007	PL-4	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100008	PL-5	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100009	PL-6	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100010	UST-3A	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100011	UST-3B	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100012	UST-3C	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100013	UST-2A	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100014	UST-2B	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100015	UST-2C	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100016	UST-1A	EPA 8015 Modified	KJM	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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 Asheville, NC 28804  
 (828)254-7176

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

**SAMPLE ANALYTE COUNT**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92108100017	UST-1B	EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
92108100018	PL-1	EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
92108100019	PL-2	EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
92108100020	PL-3	EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C
92108100021	DISPENSER	EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
		EPA 8015 Modified	KJM	2	PASI-C

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 2225 Riverside Dr.  
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 (828)254-7176

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

**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-5A Lab ID: 92108100001 Collected: 12/05/11 14:00 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	2310	mg/kg	67.5	67.5	10	12/12/11 14:42	12/13/11 15:51	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	149	%	70-167		10	12/12/11 14:42	12/13/11 15:51	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	26.6	%	0.10	0.10	1		12/09/11 13:40		



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**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-5B Lab ID: 92108100002 Collected: 12/05/11 14:05 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics <b>Surrogates</b>	<b>3040</b>	mg/kg	133	133	20	12/12/11 14:42	12/13/11 16:15	8006-61-9	
4-Bromofluorobenzene (S)	128	%	70-167		20	12/12/11 14:42	12/13/11 16:15	460-00-4	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87								
Percent Moisture	<b>24.6</b>	%	0.10	0.10	1		12/09/11 13:41		





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**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-5C Lab ID: 92108100003 Collected: 12/05/11 14:10 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics <b>Surrogates</b>	701 mg/kg		26.3	26.3	4	12/12/11 14:42	12/13/11 11:25	8006-61-9	
4-Bromofluorobenzene (S)	220 %		70-167		4	12/12/11 14:42	12/13/11 11:25	460-00-4	S5
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87								
Percent Moisture	25.5 %		0.10	0.10	1		12/09/11 13:41		



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-4A Lab ID: 92108100004 Collected: 12/05/11 14:30 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics <i>Surrogates</i>	582 mg/kg		12.8	12.8	2	12/12/11 14:42	12/13/11 04:54	8006-61-9	
4-Bromofluorobenzene (S)	202 %		70-167		2	12/12/11 14:42	12/13/11 04:54	460-00-4	S5
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	22.6 %		0.10	0.10	1		12/09/11 13:42		



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**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-4B Lab ID: 92108100005 Collected: 12/05/11 14:35 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics <b>Surrogates</b>	1750	mg/kg	67.2	67.2	10	12/13/11 09:01	12/14/11 10:37	8006-61-9	
4-Bromofluorobenzene (S)	139	%	70-167		10	12/13/11 09:01	12/14/11 10:37	460-00-4	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87								
Percent Moisture	24.9	%	0.10	0.10	1		12/09/11 13:17		



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**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-4C Lab ID: 92108100006 Collected: 12/05/11 14:40 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.4	6.4	1	12/13/11 09:01	12/13/11 17:27	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-167		1	12/13/11 09:01	12/13/11 17:27	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	21.8	%	0.10	0.10	1		12/09/11 13:17		



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**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: PL-4 Lab ID: 92108100007 Collected: 12/08/11 11:35 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics <b>Surrogates</b>	1520	mg/kg	59.9	59.9	10	12/13/11 09:01	12/14/11 11:02	8006-61-9	
4-Bromofluorobenzene (S)	153	%	70-167		10	12/13/11 09:01	12/14/11 11:02	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	23.2	%	0.10	0.10	1		12/09/11 13:18		



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: PL-5 Lab ID: 92108100008 Collected: 12/08/11 11:40 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	49.7	mg/kg	6.0	6.0	1	12/13/11 09:01	12/14/11 10:13	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	128	%	70-167		1	12/13/11 09:01	12/14/11 10:13	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	22.0	%	0.10	0.10	1		12/09/11 13:18		

### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

Sample: PL-6 Lab ID: 92108100009 Collected: 12/08/11 11:45 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics <i>Surrogates</i>	19.3 mg/kg		6.1	6.1	1	12/13/11 09:01	12/14/11 09:49	8006-61-9	
4-Bromofluorobenzene (S)	104 %		70-167		1	12/13/11 09:01	12/14/11 09:49	460-00-4	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87								
Percent Moisture	24.0 %		0.10	0.10	1		12/09/11 13:18		

## ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

**Sample: UST-3A**      **Lab ID: 92108100010**      Collected: 12/06/11 13:10      Received: 12/08/11 15:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified      Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	3320	mg/kg	262	262	40	12/14/11 08:32	12/15/11 12:29	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-167		40	12/14/11 08:32	12/15/11 12:29	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	108000	33400	500		12/15/11 21:44	64-17-5	D3
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		500		12/15/11 21:44	1868-53-7	
Toluene-d8 (S)	101	%	70-130		500		12/15/11 21:44	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		500		12/15/11 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132		500		12/15/11 21:44	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	26.7	%	0.10	0.10	1		12/09/11 13:18		





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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-3B Lab ID: 92108100011 Collected: 12/06/11 13:15 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	91.0	mg/kg	8.4	8.4	1	12/14/11 08:32	12/15/11 11:16	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	140	%	70-167		1	12/14/11 08:32	12/15/11 11:16	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	10700	3320	50		12/16/11 15:13	64-17-5	D3
<b>Surrogates</b>									
Dibromofluoromethane (S)	110	%	70-130		50		12/16/11 15:13	1868-53-7	
Toluene-d8 (S)	107	%	70-130		50		12/16/11 15:13	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		50		12/16/11 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132		50		12/16/11 15:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	18.2	%	0.10	0.10	1		12/09/11 13:18		

### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

Sample: UST-3C Lab ID: 92108100012 Collected: 12/06/11 13:20 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics <i>Surrogates</i>	ND mg/kg		6.8	6.8	1	12/14/11 08:32	12/15/11 10:03	8006-61-9	
4-Bromofluorobenzene (S)	94 %		70-167		1	12/14/11 08:32	12/15/11 10:03	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol <i>Surrogates</i>	ND ug/kg		228	70.7	1		12/15/11 21:24	64-17-5	
Dibromofluoromethane (S)	108 %		70-130		1		12/15/11 21:24	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		12/15/11 21:24	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130		1		12/15/11 21:24	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		70-132		1		12/15/11 21:24	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	21.8 %		0.10	0.10	1		12/09/11 13:22		



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-2A Lab ID: 92108100013 Collected: 12/06/11 13:25 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	294	mg/kg	13.2	13.2	2	12/14/11 08:32	12/15/11 12:05	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	174	%	70-167		2	12/14/11 08:32	12/15/11 12:05	460-00-4	S5
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	9730	3020	50		12/15/11 22:24	64-17-5	D3
<b>Surrogates</b>									
Dibromofluoromethane (S)	112	%	70-130		50		12/15/11 22:24	1868-53-7	
Toluene-d8 (S)	99	%	70-130		50		12/15/11 22:24	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		50		12/15/11 22:24	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132		50		12/15/11 22:24	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	20.2	%	0.10	0.10	1		12/09/11 13:22		



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD

Pace Project No.: 92108100

Sample: UST-2B Lab ID: 92108100014 Collected: 12/06/11 13:30 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B								
Gasoline Range Organics	ND	mg/kg	6.7	6.7	1	12/14/11 08:32	12/14/11 13:31	8006-61-9		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	95 %		70-167		1	12/14/11 08:32	12/14/11 13:31	460-00-4		
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260								
Ethanol	ND	ug/kg	295	91.6	1		12/17/11 14:44	64-17-5		
<b>Surrogates</b>										
Dibromofluoromethane (S)	115 %		70-130		1		12/17/11 14:44	1868-53-7		
Toluene-d8 (S)	102 %		70-130		1		12/17/11 14:44	2037-26-5		
4-Bromofluorobenzene (S)	95 %		70-130		1		12/17/11 14:44	460-00-4		
1,2-Dichloroethane-d4 (S)	113 %		70-132		1		12/17/11 14:44	17060-07-0		
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87								
Percent Moisture	18.0 %		0.10	0.10	1		12/09/11 13:22			



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-2C Lab ID: 92108100015 Collected: 12/06/11 13:35 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.5	6.5	1	12/14/11 08:32	12/14/11 14:43	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98 %		70-167		1	12/14/11 08:32	12/14/11 14:43	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	225	69.9	1		12/17/11 15:04	64-17-5	
<b>Surrogates</b>									
Dibromofluoromethane (S)	115 %		70-130		1		12/17/11 15:04	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		12/17/11 15:04	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130		1		12/17/11 15:04	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		70-132		1		12/17/11 15:04	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	18.7 %		0.10	0.10	1		12/09/11 13:23		

## ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

**Sample: UST-1A**      **Lab ID: 92108100016**      Collected: 12/06/11 14:05      Received: 12/08/11 15:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified      Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics <i>Surrogates</i>	<b>1980</b>	mg/kg	70.0	70.0	10	12/14/11 08:32	12/15/11 12:53	8006-61-9	
4-Bromofluorobenzene (S)	165	%	70-167		10	12/14/11 08:32	12/15/11 12:53	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol <i>Surrogates</i>	ND	ug/kg	57100	17700	250		12/16/11 21:13	64-17-5	D3
Dibromofluoromethane (S)	106	%	70-130		250		12/16/11 21:13	1868-53-7	
Toluene-d8 (S)	100	%	70-130		250		12/16/11 21:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		250		12/16/11 21:13	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132		250		12/16/11 21:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>26.8</b>	%	0.10	0.10	1		12/09/11 13:23		



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: UST-1B Lab ID: 92108100017 Collected: 12/06/11 14:10 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	2390	mg/kg	129	129	20	12/14/11 08:32	12/15/11 13:17	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	128	%	70-167		20	12/14/11 08:32	12/15/11 13:17	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	46700	14500	200		12/16/11 21:33	64-17-5	D3
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		200		12/16/11 21:33	1868-53-7	
Toluene-d8 (S)	101	%	70-130		200		12/16/11 21:33	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		200		12/16/11 21:33	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132		200		12/16/11 21:33	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	28.1	%	0.10	0.10	1		12/09/11 13:23		

### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

Sample: PL-1 Lab ID: 92108100018 Collected: 12/08/11 11:20 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	ND	mg/kg	6.0	6.0	1	12/14/11 08:32	12/15/11 10:28	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96 %		70-167		1	12/14/11 08:32	12/15/11 10:28	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	166	51.4	1		12/17/11 15:24	64-17-5	
<b>Surrogates</b>									
Dibromofluoromethane (S)	108 %		70-130		1		12/17/11 15:24	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		12/17/11 15:24	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130		1		12/17/11 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-132		1		12/17/11 15:24	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	14.7 %		0.10	0.10	1		12/09/11 13:24		





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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD

Pace Project No.: 92108100

Sample: PL-2 Lab ID: 92108100019 Collected: 12/08/11 11:25 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	15.7 mg/kg		6.2	6.2	1	12/14/11 08:32	12/14/11 16:20	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100 %		70-167		1	12/14/11 08:32	12/14/11 16:20	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND ug/kg		168	52.2	1		12/16/11 16:33	64-17-5	1g
<b>Surrogates</b>									
Dibromofluoromethane (S)	126 %		70-130		1		12/16/11 16:33	1868-53-7	
Toluene-d8 (S)	87 %		70-130		1		12/16/11 16:33	2037-26-5	
4-Bromofluorobenzene (S)	78 %		70-130		1		12/16/11 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	163 %		70-132		1		12/16/11 16:33	17060-07-0	S0
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	22.1 %		0.10	0.10	1		12/09/11 13:24		



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### ANALYTICAL RESULTS

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: PL-3 Lab ID: 92108100020 Collected: 12/08/11 11:30 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	1330	mg/kg	53.1	53.1	10	12/14/11 08:32	12/15/11 13:42	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	166	%	70-167		10	12/14/11 08:32	12/15/11 13:42	460-00-4	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND	ug/kg	17000	5260	100		12/16/11 22:13	64-17-5	D3
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		100		12/16/11 22:13	1868-53-7	
Toluene-d8 (S)	93	%	70-130		100		12/16/11 22:13	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		100		12/16/11 22:13	460-00-4	
1,2-Dichloroethane-d4 (S)	131	%	70-132		100		12/16/11 22:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	19.0	%	0.10	0.10	1		12/09/11 13:24		



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**ANALYTICAL RESULTS**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

Sample: DISPENSER Lab ID: 92108100021 Collected: 12/08/11 11:50 Received: 12/08/11 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	149 mg/kg		6.1	6.1	1	12/14/11 08:32	12/15/11 11:40	8006-61-9	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	175 %		70-167		1	12/14/11 08:32	12/15/11 11:40	460-00-4	S2
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Ethanol	ND ug/kg		4340	1350	25		12/16/11 22:33	64-17-5	D3
<b>Surrogates</b>									
Dibromofluoromethane (S)	106 %		70-130		25		12/16/11 22:33	1868-53-7	
Toluene-d8 (S)	101 %		70-130		25		12/16/11 22:33	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130		25		12/16/11 22:33	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		70-132		25		12/16/11 22:33	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	21.6 %		0.10	0.10	1		12/09/11 13:24		



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**QUALITY CONTROL DATA**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

QC Batch: GCV/5589 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics  
 Associated Lab Samples: 92108100001, 92108100002, 92108100003, 92108100004

METHOD BLANK: 698592 Matrix: Solid  
 Associated Lab Samples: 92108100001, 92108100002, 92108100003, 92108100004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.6	12/12/11 21:23	
4-Bromofluorobenzene (S)	%	91	70-167	12/12/11 21:23	

LABORATORY CONTROL SAMPLE: 698593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	23.5	23.3	99	70-165	
4-Bromofluorobenzene (S)	%			93	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 698594 698595

Parameter	Units	92108077005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Gasoline Range Organics	mg/kg	ND	27.5	27.5	34.4	36.4	125	132	47-187	6	30	
4-Bromofluorobenzene (S)	%						89	91	70-167			



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**QUALITY CONTROL DATA**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

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QC Batch: GCV/5592 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics  
 Associated Lab Samples: 92108100005, 92108100006, 92108100007, 92108100008, 92108100009

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METHOD BLANK: 698826 Matrix: Solid  
 Associated Lab Samples: 92108100005, 92108100006, 92108100007, 92108100008, 92108100009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.7	12/13/11 09:21	
4-Bromofluorobenzene (S)	%	93	70-167	12/13/11 09:21	

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LABORATORY CONTROL SAMPLE: 698827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	23.6	23.7	100	70-165	
4-Bromofluorobenzene (S)	%			93	70-167	



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**QUALITY CONTROL DATA**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

QC Batch: GCV/5595 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics  
 Associated Lab Samples: 92108100010, 92108100011, 92108100012, 92108100013, 92108100014, 92108100015, 92108100016,  
 92108100017, 92108100018, 92108100019, 92108100020, 92108100021

METHOD BLANK: 699406 Matrix: Solid  
 Associated Lab Samples: 92108100010, 92108100011, 92108100012, 92108100013, 92108100014, 92108100015, 92108100016,  
 92108100017, 92108100018, 92108100019, 92108100020, 92108100021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.8	12/14/11 09:25	
4-Bromofluorobenzene (S)	%	92	70-167	12/14/11 09:25	

LABORATORY CONTROL SAMPLE: 699407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	24.3	23.8	98	70-165	
4-Bromofluorobenzene (S)	%			97	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 699408 699409

Parameter	Units	92108100014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Gasoline Range Organics	mg/kg	ND	27.8	27.8	41.4	40.5	138	135	47-187	2	30	
4-Bromofluorobenzene (S)	%						91	91	70-167			

### QUALITY CONTROL DATA

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

QC Batch: MSV/17656 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 92108100010, 92108100012, 92108100013

METHOD BLANK: 700244 Matrix: Solid

Associated Lab Samples: 92108100010, 92108100012, 92108100013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/kg	ND	184	12/15/11 15:44	
1,2-Dichloroethane-d4 (S)	%	105	70-132	12/15/11 15:44	
4-Bromofluorobenzene (S)	%	98	70-130	12/15/11 15:44	
Dibromofluoromethane (S)	%	110	70-130	12/15/11 15:44	
Toluene-d8 (S)	%	101	70-130	12/15/11 15:44	

LABORATORY CONTROL SAMPLE: 700245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethanol	ug/kg	2000	2190	109	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 700919

Parameter	Units	92108288002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				269	70-132	S0
4-Bromofluorobenzene (S)	%				82	70-130	
Dibromofluoromethane (S)	%				279	70-130	S0
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 700847

Parameter	Units	92108280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethanol	ug/kg		ND			
1,2-Dichloroethane-d4 (S)	%	107	264	92		S2
4-Bromofluorobenzene (S)	%	97	85	5		
Dibromofluoromethane (S)	%	109	270	92		S2
Toluene-d8 (S)	%	102	104	11		

### QUALITY CONTROL DATA

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

QC Batch: MSV/17671 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 92108100011, 92108100016, 92108100017, 92108100019

METHOD BLANK: 700931 Matrix: Solid  
Associated Lab Samples: 92108100011, 92108100016, 92108100017, 92108100019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/kg	ND	226	12/16/11 12:13	
1,2-Dichloroethane-d4 (S)	%	112	70-132	12/16/11 12:13	
4-Bromofluorobenzene (S)	%	92	70-130	12/16/11 12:13	
Dibromofluoromethane (S)	%	113	70-130	12/16/11 12:13	
Toluene-d8 (S)	%	101	70-130	12/16/11 12:13	

LABORATORY CONTROL SAMPLE: 700932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethanol	ug/kg	2250	2570	114	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 701489

Parameter	Units	92108156002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				108	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Dibromofluoromethane (S)	%				107	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 701488

Parameter	Units	92108091002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethanol	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	110	8		
4-Bromofluorobenzene (S)	%	96	97	8		
Dibromofluoromethane (S)	%	110	119	2		
Toluene-d8 (S)	%	104	103	12		





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**QUALITY CONTROL DATA**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

QC Batch: MSV/17672 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92108100020, 92108100021

METHOD BLANK: 700933 Matrix: Solid  
 Associated Lab Samples: 92108100020, 92108100021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/kg	ND	209	12/16/11 11:53	
1,2-Dichloroethane-d4 (S)	%	108	70-132	12/16/11 11:53	
4-Bromofluorobenzene (S)	%	95	70-130	12/16/11 11:53	
Dibromofluoromethane (S)	%	114	70-130	12/16/11 11:53	
Toluene-d8 (S)	%	103	70-130	12/16/11 11:53	

LABORATORY CONTROL SAMPLE: 700934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethanol	ug/kg	2180	2430	112	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			101	70-130	

### QUALITY CONTROL DATA

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

QC Batch: MSV/17686 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 92108100014, 92108100015, 92108100018

METHOD BLANK: 701525 Matrix: Solid

Associated Lab Samples: 92108100014, 92108100015, 92108100018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/kg	ND	218	12/17/11 13:05	
1,2-Dichloroethane-d4 (S)	%	100	70-132	12/17/11 13:05	
4-Bromofluorobenzene (S)	%	97	70-130	12/17/11 13:05	
Dibromofluoromethane (S)	%	104	70-130	12/17/11 13:05	
Toluene-d8 (S)	%	102	70-130	12/17/11 13:05	

LABORATORY CONTROL SAMPLE: 701526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethanol	ug/kg	2240	2530	113	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 701623

Parameter	Units	92108279002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				97	70-132	
4-Bromofluorobenzene (S)	%				96	70-130	
Dibromofluoromethane (S)	%				104	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 701622

Parameter	Units	92108478001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethanol	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	105	6		
4-Bromofluorobenzene (S)	%	97	97	2		
Dibromofluoromethane (S)	%	111	110	2		
Toluene-d8 (S)	%	99	101	0		



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**QUALITY CONTROL DATA**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

QC Batch: PMST/4373 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92108100001, 92108100002, 92108100003, 92108100004

SAMPLE DUPLICATE: 697459

Parameter	Units	92108077001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.4	27.6	5	25	

SAMPLE DUPLICATE: 697460

Parameter	Units	92108100004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.6	23.4	4	25	



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**QUALITY CONTROL DATA**

Project: NCDOT - IDLEWILD ROAD  
 Pace Project No.: 92108100

QC Batch: PMST/4374 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92108100005, 92108100006, 92108100007, 92108100008, 92108100009, 92108100010, 92108100011,  
 92108100012, 92108100013, 92108100014, 92108100015, 92108100016, 92108100017, 92108100018,  
 92108100019, 92108100020, 92108100021

SAMPLE DUPLICATE: 697461

Parameter	Units	92108099009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.9	28.0	1	25	

SAMPLE DUPLICATE: 697462

Parameter	Units	92107889002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.8	20.9	0	25	



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## QUALIFIERS

Project: NCDOT - IDLEWILD ROAD  
Pace Project No.: 92108100

### 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.

SG - Silica Gel - Clean-Up

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

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

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

- 1g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- S0 Surrogate recovery outside laboratory control limits.
- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
- S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).