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:

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Kleinfelder Project No. 122291

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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.

Should questions arise or additional information be required, please contact the undersigned.

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. Meil a trice see Geologist for Kleinfelder Southeast, Inc., do certify that the information partisined in this report is correct and accurate to the best of my knowledge.

Craig D, Neil,

NC License

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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 Photoionizaion 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 preexisting 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, NCDOT is solely responsible for directing notification of all regulation or order. 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.

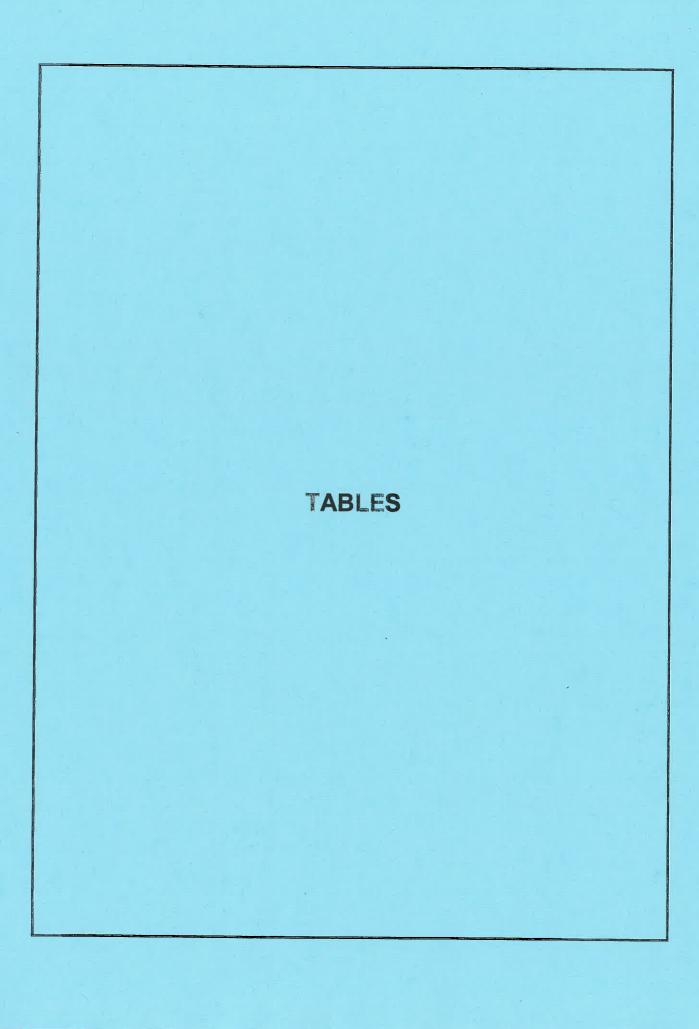


TABLE 1: PID SCREENING SUMMARY

Sample ID	Depth (ft)	PID Reading
SW-1	2.5	13.8
SW-2	2.5	51.6
SW-3	2.5	28.7
SW-4	2.5	17.2
SW-5	2.5	15.6
SW-6	2.5	78.4
SW-7	2.5	1,662
SW-8	2.5	664
SW-9	2.5	9.7
SW-10	2.5	35.2
SW-11	2.5	85.2
SW-12	2.5	3.3
SW-13	2.5	0.0
SW-14	2.5	57.8
SW-15	2.5	18.7
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.

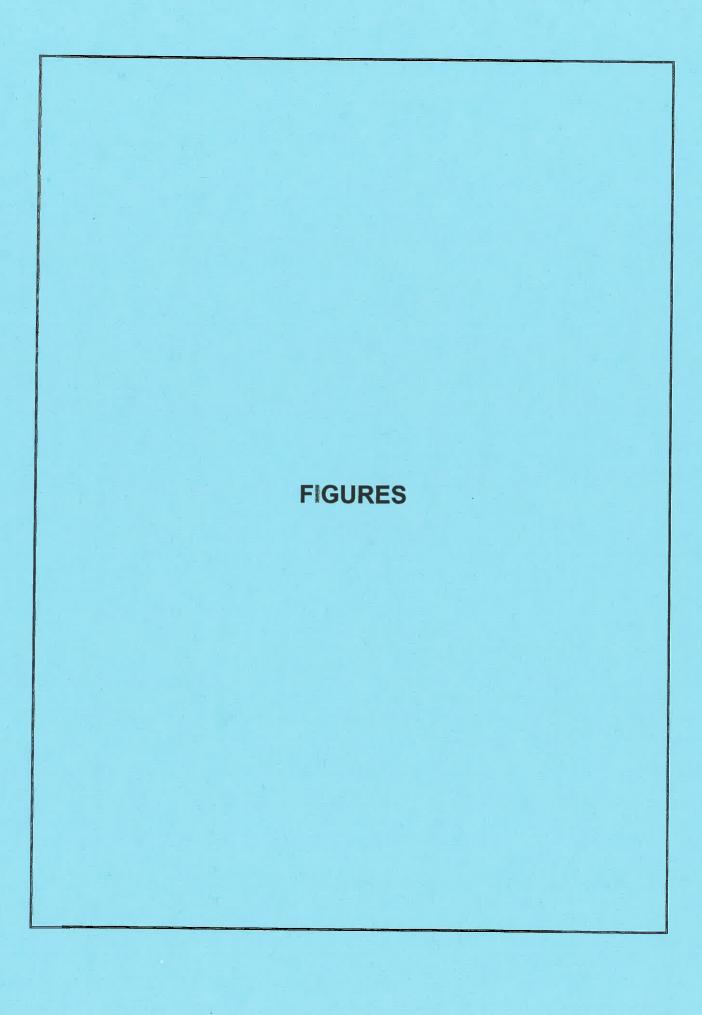
TABLE 2: SOIL SAMPLE ANALYTICAL SUMMARY - UST CLOSURE

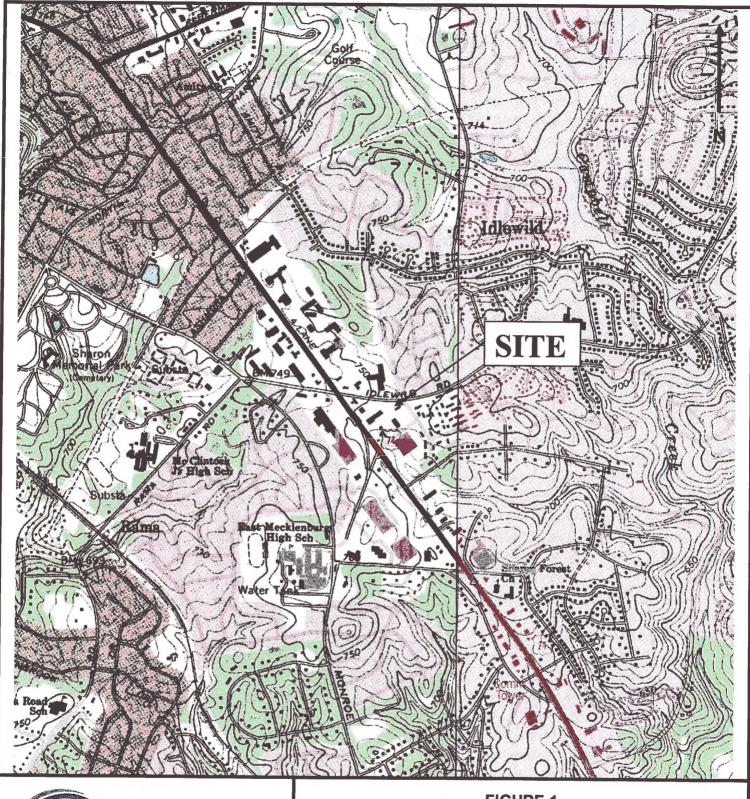
Area of Concern	US	T-1		UST-2		
Sample ID	UST-1A	UST-1B	UST-2A	UST-2B	UST-2C	NCDENR
Depth	13'	. 13'	13'	13'	13'	Action Levels
Sample date	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/5/2011	mg/L
Parameter						- ''' ^{9/} -
GRO by EPA Method 8015/5035	1,980	2,390	294	<6.7	<6.5	10
Ethanol by EPA Method 8260	<57.1	<46.7	<9.73	<0.295	<0.225	NA NA

Area of Concern		UST-3			UST-4		T
Sample ID	UST-3A	UST-3B	UST-3C	UST-4A	UST-4B	UST-4C	NCDENR
Depth	13'	13'	13'	11'	11'	11'	Action Levels
Sample date	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/5/2011	12/5/2011	mg/L
Parameter							1 ""9/"
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	NA NA

Area of Concern		UST-5		Pro	oduct Line (No	ew)	
Sample ID	UST-5A	UST-5B	UST-5C	PL-1	PL-2	PL-3	NCDENR
Depth	11'	11'	11'	3'	3'	3'	Action Levels
Sample date	12/5/2011	12/5/2011	12/5/2011	12/8/2011	12/8/2011	12/8/2011	mg/L
Parameter						12/0/2011	- '''9/L
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 NA

L	Area of Concern	Product Line (Old)			Dispenser	
\vdash	Sample ID	PL-4	PL-5	PL-6	Dispenser	NCDENR
\perp	Depth	3'	3'	3'	5'	Action Levels
	Sample date	12/8/2011	12/8/2011	12/8/2011	12/8/2011	mg/L
Pa	arameter	11				'''9'' <u>-</u>
G	RO by EPA Method 8015/5035	1,520	49.7	19.3	149	10
Et	thanol by EPA Method 8260	NA	NA	NA	<4.340	NA .







6200 HARRIS TECHNOLOGY BOULEVARD CHARLOTTE, NORTH CAROLINA PHONE: 704.598.1049

FIGURE 1 SITE LOCATION MAP

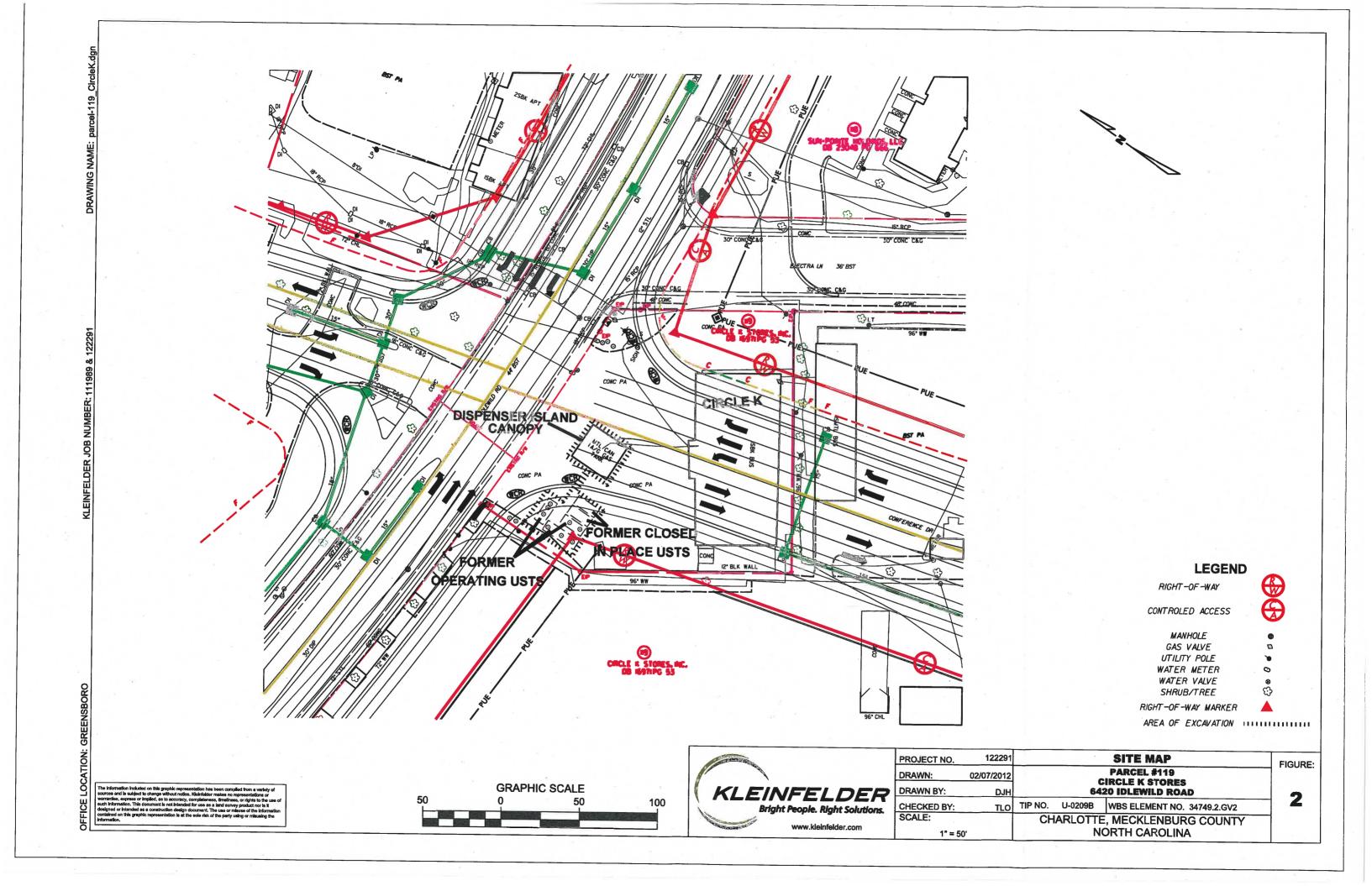
PARCEL #119
CIRCLE K STORE
6420 IDLEWILD ROAD
CHARLOTTE, NORTH CAROLINA

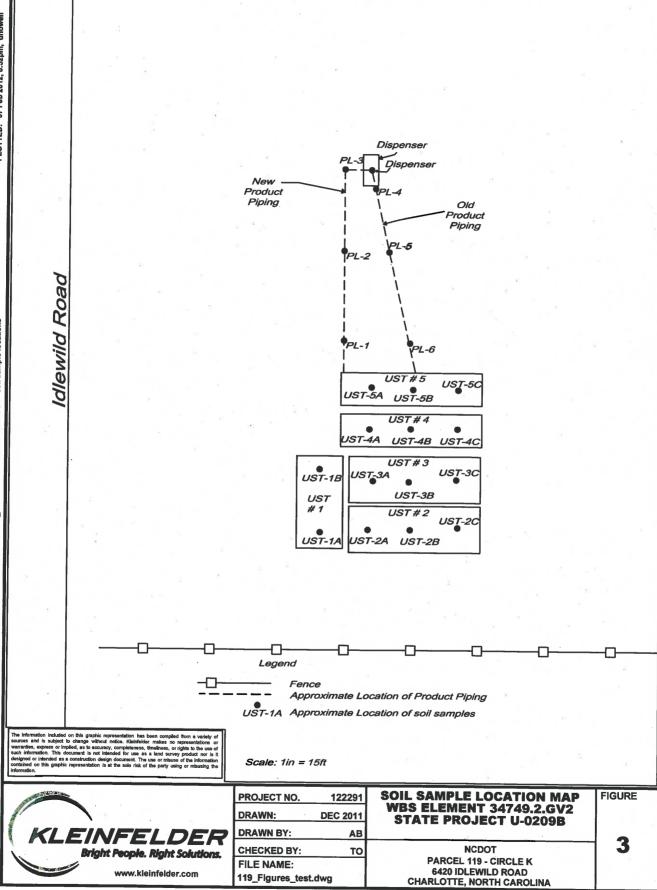
DATE: 12/29/2011

SOURCE: USGS Topographic Orthophoto Map, NC Charlotte East 1991 APPROVED BY:

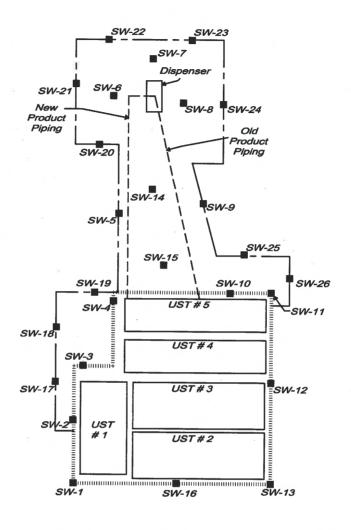
SCALE: 1" =2,000'

PROJECT NO: 122291





Ji. ENVIRONMENTALIProjects\Active Projects\122291_NCDOT\119 Circle K\ LAYOUT: Secreen sample locations (2)



Legend \neg Fence

Approximate Location of Product Piping

Approximate Extent of Excavation (average depth of 12').

Approximate Extent of Excavation (average depth of 2.5').

SW-1 Approximate Location of soil screening.

Scale: 1in = 15ft

Note: Additional excavations performed by Circle K not shown hereon.



PROJECT NO.	122291
DRAWN:	DEC 2011
DRAWN BY:	AB
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FILE NAME:

119_Figures_test.dwg

PID SCREENING LOCATION WBS ELEMENT 34749.2.GV2 STATE PROJECT U-0209B NCDOT

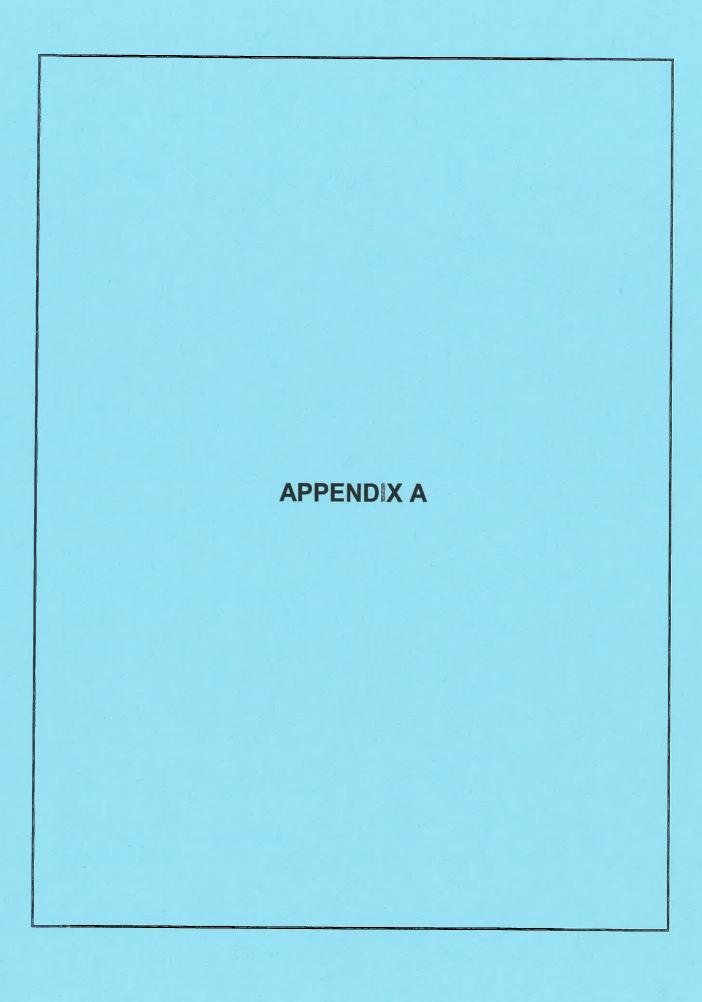
SOIL EXCAVATION &

PARCEL 119 - CIRCLE K 6420 IDLEWILD ROAD CHARLOTTE, NORTH CAROLINA 4

FIGURE

ATTACHED IMAGES: ATTACHED XREFS:

CAD FILE:



EST	3 Notice o	f Intent: L	JST Perm	nane	nt Clos	sure or	Change-ii	1-Service
Return comp The DWM Regi the status of the SEE MAP ON T	STATE USE ONLY LD, # Deta Received							
		ins	STRUCTIONS	(REAL	THIS FIR	ST)	- T	
Complete and r provides super days notice is a	vision for closure or char	days prior to closur ige-in-service site	re or change-in-s assessment act	service a lvities a	activities. If a nd signs and	Professional seals all clo	Engineer (P.E.) o osure reports then	r a Licensed Geologist (L.G.) at least a five (5) working
of Waste Mana Office in Raleig	gement (DWM) Regional h so that the status of the	Office within thirty tanks may be char	(30) days follow nged to permane	ving clos ently clo	sure activities sed and your	s. The UST- tank fee acc	2 form should also ount can be close	
Guidelines for 7	id change-in-service site <i>'ank Closure</i> can be obtal	assessments mus ned at www.waster	t be completed noting.org.	in acco	rdance with 1	the latest ver	sion of the <i>Guide</i>	lines for Tank Closure. The
You must make taken for disposed of illes	sure that USTs removed al. Usually, USTs are ck gally in fields or other durn sponsible for the cleanup	d from your propert eaned and cut up fo paites can leak pe of any environmen	ty are disposed or scrap metal. troleum product	This is	dangerous w udge into the	ork and musi environment	t be performed by t. If your tanks are	ask where the tank(s) will be a qualified company. Tanks e disposed of improperly, you
O	Corporation, Individual, Pu	OF TANKS	Property of				II. LOCATION	
Circle	K Food- Stores	Inc.	ner Enuty)	I-ac	ility Name or	Company Stor	re # 4644	
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State		Zip Code 282	-13	City	Charlot	ha	County	Zip Code
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1025575			UI. CONTAC	ST PER	RSONNEL	100000		
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	V	TANKREMOV	Stores, Ti	MC F IN:DI	EME CH	ANGE IN SE	tal Manager	· 10+ 583-5762
1. Contact loc	al fire marshal.		rovide a sketch					3. with all closure site
	closure event.		oil sampling loca		a baburat on i	tto and	assessment rep	orts bearing the signature
	te Soil Assessment.	6. S	ubmit a closun	e repor	t in the for	mat of		P.E. or L.G. If a release has
	tanks or closing in place		ST-12 (includin ilrty (30) da				seal of a P.E. or	e supervision, signature or L.G. is not required.
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Contractor Nam	Erre MiMan	·	C	ontracto	r Company i	lame: Erwlygny		
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P.t	. Box 484 H	inh Point		N	L	272		36 434-7750
Primary Consult	ant Name:		Primary Consu	itant Co	mpany Nam	e:	Co	onsultant Phone No:
Cha	g Neil VI.	TANKS SCHED	IN EU EUD W	CICI	ntelde	ANGEINE	FDVICE	104 598-1049
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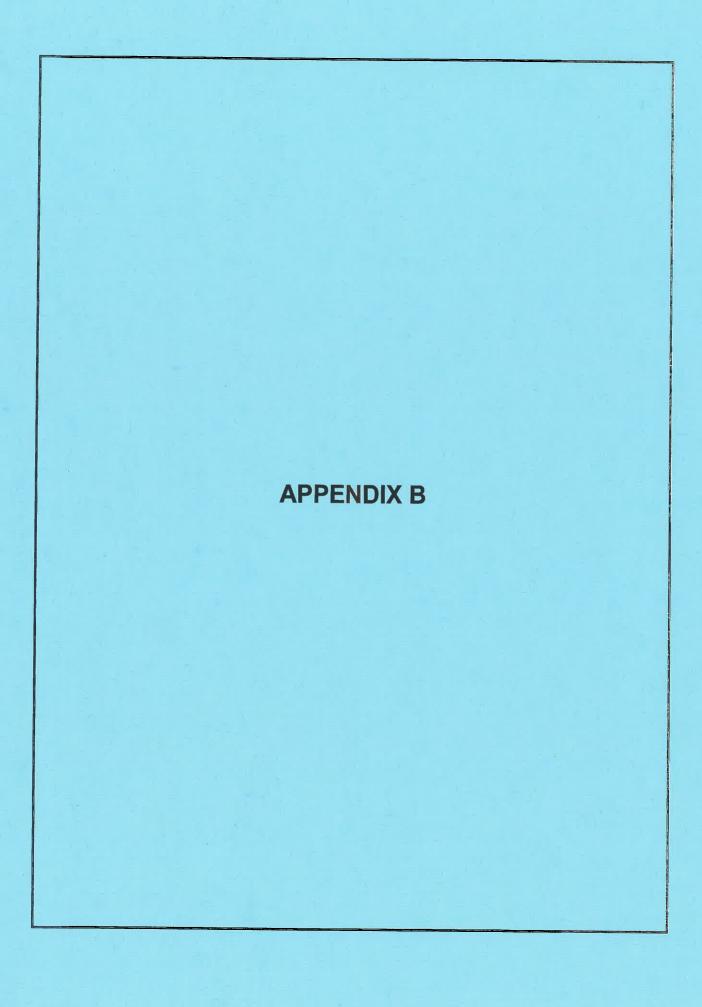
* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

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: Kurt Blevins Signature

Branch Manager ECS

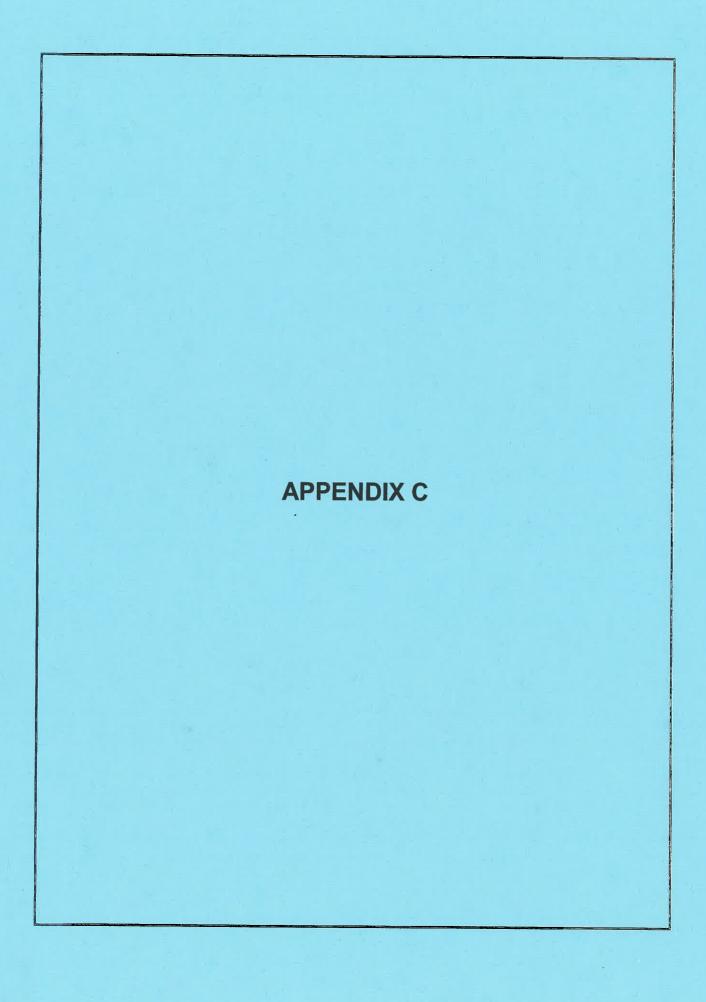
Date Signed | SCHEDULED REMOVAL DATE | Notify your DWM Regional Office | 48 hours before this date if | scheduled removal date changes Kut Rli
UST-3 Rev 10/2011





(b) A&D Environmental Services Bill of Lading / Material Manifest

-	No:		,	or ID Numbe	r	Page 1 of		434-77	'50			15387
Generato	or's Name	e and Ma	alling Addre	. 88		Generator'	's site address	s (if differ	ent from m	alling add	ress)	
CIRC	1	K 57	BRE>	JAC		6426	IDCEMIO	K FA				
2440	White	hall	Park	Vr.		Charle	offe we	252	12			
MAAL	-0774	NC	2827	<u> </u>					11			
			Compa	ny Name	A&D	Environme	ntal Servic	es, inc.			US EPA ID No:	NCD98623222
	sporter esignated Fr		Compa	ny Name Designated Fac		Environment Designated Facility), LLC		US EPA ID No:	
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K		, Gasoline				ERG# 128						
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Х						es, wet, nonspillabl			RG# 154		ead Acid Batteries	<u> </u>
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X						es, wet, filled with a	alkali, 8, III		RG# 154	Wet N	Cad Batteries	
		ļ			UN3090, Lithium				RG# 138		ım Batterles	
X		\vdash			UN3028, Batteries, dry	/ containing potae	sium hydroxide	solid, 8, 11	ERG# 154	Aikai	ine Batteries	
X					I IN2028 Potterios de	containing polas	mir uma ilm columnatoria					
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X					UN3028, Batteries, dry Universal Waste Lamp Universal Waste Lamp	/, containing potas s (Not DOT-Regul s (Not DOT-Regul	ated per 49 CFF ated per 49 CFF	R 173.164 R 173.164	(e) (e)	Fluoresc	ent lamps 4' or < ent lamps 4' or >	
X					UN3028, Batteries, dry Universal Waste Lamp	y, containing potass is (Not DOT-Regul is (Not DOT-Regul is (Not DOT-Regul	ated per 49 CFF ated per 49 CFF ated per 49 CFF	R 173.164 R 173.164 R 173.164	(e) (e)	Fluoresc Fluoresc Circuls	ent lamps 4' or <	
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X					UN3028, Batteries, dry Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp	y, containing potas, as (Not DOT-Regulas	ated per 49 CFF ated per 49 CFF	R 173.164 R 173.164 R 173.164 R 173.164 R 173.164 R 173.164	(e) (e) (e) (e)	Fluoresc Fluoresc Circuls Con	ent lamps 4' or < ent lamps 4' or > ent lamps 4' or > ent lamps npact Lamps	
X					UN3028, Batteries, dry Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp Universal Waste Lamp	y, containing potasses (Not DOT-Regules	ated per 49 CFF ated per 49 CFF	R 173.164 R 173.164 R 173.164 R 173.164 R 173.164 R 173.164 R 173.164	(e) (e) (e) (e)	Fluoresc Fluoresc Circula Con Sh HID/N	ent lamps 4' or < ent lamps 4' or > ent lamps 4' or > ent lamps spect Lamps sttershield IV/UV Lamps lescent Lamps	
X					UN3028, Batteries, dry Universal Waste Lamp Non-PCB Light B	y, containing potasses (Not DOT-Regules (Not DOT-Regules)	ated per 49 CFF ated per 49 CFF o (Not DOT-Reg	R 173.164(R 173.164(R 173.164(R 173.164(R 173.164(R 173.164(Ulated)	(e) (e) (e) (e)	Fluoresc Fluoresc Circule Con Sh HID/h Incano Non-PC	ent lamps 4' or < ent lamps 4' or > ent lamps 4' or > r/U-tube lamps spect Lamps ettershield fV/UV Lamps lescent Lamps B Light Bellasts	
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X X X	Chairmannis Ai	I IIII DADAIU	JURIN OF TRANSC	JURIAUKIN, 1 NJAYYARI	UN3028, Batteries, dry Universal Waste Lamp Non-PCB Light B Electronic Equip	y, containing potasses (Not DOT-Regules (Not DOT-Regules) (Not DOT-Regule	ated per 49 CFI ated per 49 CFI o (Not DOT-Regu ackaged, marked,	R 173.164(R 173.164(R 173.164(R 173.164(R 173.164(R 173.164(R 173.164(ulated)	(e) (e) (e) (e) (e) (e) (e)	Fluoresc Fluoresc Circule Con Sh HIDM Incanc Non-PC	ent lamps 4' or < ent lamps 4' or > ent lamps pact Lamps ettershield AV/UV Lamps lescent Lamps B Light Beltasts lectronics in for transportation	according to the
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Environmental Services, Inc. P.O. Box 484 · High Point, NC · Phone (336) 434-7750 · FAX (336) 434-7752

TANK DISPOSAL MANIFEST

1) Tank Ow	mer/Authorized Represent	ative: Name and Mailing Address	Arcle k spoke in
Сн	ARCOTTE NE 2	8273	
2) Tank Ov	vner/Authorized Represen	Phone#: 704-583	6-mansun 3-5762
3) Descript	ion Of Tanks:		*
Tank No	. Capacity	Previous Contents	Comments
_UST ·	6000	Cas	=
UST	2 8000	Gro	.,
UST -	3 8000	Gas	0
		*	
98		:	K
			÷
		•	4
11		П	
	5		
4) Tank Ow tanks hav	ner/Authorized Representate been removed from the pr	ative Certification: The undersigned cemises of the tank owner.	ed certifies that the above listed storage
Phil	e like	Chalac Pite	12/6/10
Printe	dTyped Name	Signature	MonthiDaylYear
5) Transpo Environ	orter: The undersigned cert imental and Industrial Servi	tifies that the above listed storage tances, 2718 Uwharrie Road, Archdale, l	ks have been transported to A&D N.C. 27263.
_5'c	an Tueker	les Tale	13-6-11
Printe	d/Typed Name	Signature	MonthiDayiYear
6) Disposal	Certification: The unders	signed certifies that the above-named	storage tank(s) have been cut
into scra	p pieces and accepted by the	e metal recycling facility.	
Recycling	g Facility: Al S	rap Metal	
Son Printer	ELOY CAYLEY dTyped Name	Signature / Car	Month/Day/Year
		- Pigrianite	MORENID UNITED



Environmental Services, Inc. P.O. Box 484 · High Point, NC · Phone (336) 434-7750 · FAX (336) 434-7752

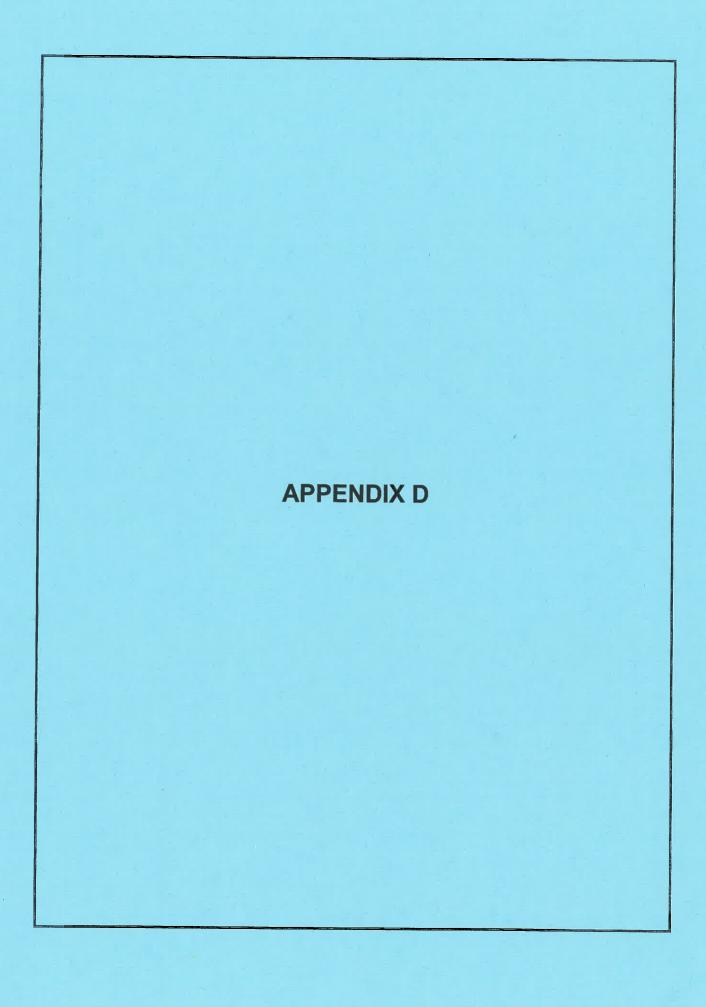
TANK DISPOSAL MANIFEST

1) Tank Owner/Auth Z440 /	norized Representative:	Name and Mailing	Address Circle	k spores lak
CHARLOT	16 NC 282	73		
2) Tank Owner/Aut	horized Representative:	Contact Heat	583-5762	هم
3) Description Of Ta	ınkş:			
Tank No.	Capacity	Previous	Contents	Comments
UST-4	4000		4 =	
UST-4	4600	a)		*
*	4.5	Es i .		
		5 <u>n</u>		
			1	
	81	A = =	*(
	E 18			
4) Tank Owner/Auth tanks have been res	orized Representative C moved from the premises	ertification: The post of the tank owner.	undersigned certifies t	hat the above listed storage
Philip Pike		Chly C	2/	12/6/11
Printed/Typed N	lame	Signature		MonthiDay/Year
Per in Controlled th	e undersigned certifies the ad Industrial Services, 27	at the above listed s 18 Uwharrie Road, A	torage tanks have been Archdale, N.C. 27263.	n transported to A&D
Sean 7		Bu 7		12.6-11
Printed/Typed N		Signature	TV	Month/Day/Year
and strap pieces a	tion: The undersigned c and accepted by the metal	recycling facility.		
Recycling Facility:	Mc Manus	In Scrap	Metals · C	Boro.n.
Frinced Typed N	Mc Manus	Signature	O MMonn	12-9-11
		31 Kunture	1	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/Authorize 2940 Who Charlotte	d Representative: Note had fark	O. Suite 4	CIRCLE K	STORES INC
2)	Tank Owner/Authorize	d Representative: Co	ontact Heather nonell: 764. 573	HERMANSON -5762	
3)	Description Of Tanks:			*	
ļ .	Tank No.	Capacity	Previous Content	<u>s</u> <u>C</u>	omments
	081-5	4000	to Filled	1 Form (MSprouval)
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-		= a			
			u	i i i i i i i i i i i i i i i i i i i	<u> </u>
_					
	n a				2 2
	Tank Owner/Authorized tanks have been removed	I from the premises of	the tank owner.	med certifies that th	e above listed storage
(Philip Roke	6	They Chi		12/11/11
	Printed/Typed Name		Signature	i	Month/Day/Year
5)	Transporter: The und Environmental and Ind	ersigned certifies that tustrial Services, 2718	the above listed storage t Uwharrie Road, Archdale	anks have been tran	sported to A&D
	Printed Typed Name	estson.	Signature /		Month/Day/Year
6)	Disposal Certification: into scrap pieces and ac			ed storage tank(s) h	ave been cut
	Recycling Facility:	1.4.6.: FF	in Scrap Me	tals-GB	010,1
	Printed/Typed Name	Well-mari	EL OMM Signature	non	12-9.6(MonthiDayiYear





Photograph 1 – View of the Circle K.



Photograph 2 – View of the dispenser island.



Photograph 3 – View of the UST basin.



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



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



Photograph 6 - View of UST #4.



Photograph 7 – View of UST #2 and #3.



Photograph 8 – View of UST #1 and #2.



Photograph 9 – View of old and new product piping.



Photograph 10- View of dispenser island area.



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



Photograph 12- View of the backfilled excavation.



Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089 Phone 704-434-0075 • Fax 704-434-9533 Non-Hazardous Waste Manifest # 311411

Date 12/6/11	Load Number
(a = d = d)	(numbered sequentially as trucks are dispatched)
ENVIRONMENTA	IL CONSULTANT: ENGROPMENTAL - COMPLIANCE SERVICES NO
Contact:	Phone: 704. 583-2711 Fax: 704. 583. 2744
GENERATOR:	Circle & STORES INC
Address:	Circle & STURES INC - 2440 White Hall Back Or Suite County:
Contact: Heath	er Uermons-12 Phone: 704-583-5767
WASTE ORIGINA	Phone: 704-593-5767 TION POINT: Complete Address: 5anc As Above
- Julius	
Class & Type of Con	ntaminate in soil
SOURCE OF CON	TAMINATION: (ex. UST or other source)
normally appear in a Constituents. I certify the best of my knowle	fying that the waste in question does not contain organic constituents other than those which would nalysis of virgin petroleum product residue, I am submitting this Certificate of Waste y that I am familiar with the source of contamination of the soil and further certify the source, to adge, contains no contaminants other than that listed above.
	e: Phylode (rect For Circle k) Date: 12/6/11
TRANSPORTER: _	RAL Hadly Inc.
Contact:	Andy Lee Phone: 930 522 1764.
manifest are properly	fy that the materials described above being shipped under this non-hazardous materials or classified, packaged, labeled, secured, and are in proper condition for transport in commerce regulations governing transportation, and I hereby receive this material for delivery to the
TRUCK#: KA	1 TAG#: VOLUME: 45,80 - 23.5
TRUCK DRIVER S	
DESTINATION:	Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038
I certify that the carr	ier has delivered the materials described above to this facility, and I hereby accept this material
for treatment and/or	disposal in a manner that has been authorized by the Sate of North Carolina.
Facility Signature:	AV /owerz Date: 12/6/11
Signature:	illian Brown Date: 12/6/11
Company Name	Title:
White/Facility	Canary/Invoice Pink/Carrier Goldenrod/Generator

LATTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX Job Name: Truck# 67980 lb Gross Wgt.: 11429AH 12/06/2017 Tare Wgt: Net Wgt.: NORTH CAROLINA 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# Gross Wgt.: 22900 lb Tare Wgt: 11 NAME 127 U67 2011 Net Wgt.: **NORTH CAROLINA** PUBLIC WEIGHMASTER Tons: LICENSE EXPIRES JUNE 30, 2011

Weighed by:

ENVIRONMENTAL SOILS, INC. P.O. BOX 295

Environmental Soils Inc.

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

Non-Hazardous Waste Manifest #

1.1.	TOTAL TRANSPORT AND THE TAXABLE TATABLE CO. 1. C. A. C. 1. C. A.
Date	Load Number 2
	(numbered sequentially as trucks are dispatched)
ENVIRONMENTA	IL CONSULTANT: Environmental Comphanes Services NC
Contact: Phi	(Rice Phone: 764-583-2711 Fax: 764-583-2744
GENERATOR: _	Cucle & spores in
Address: 2440 5	ATTHELI PARL DI Charlotte Ac County: Machtenburg
	e Magnissen Phone: 704-583-5167
WASTE ORIGINA	TION POINT: Complete Address: 5 44
Class & Type of Co	ntaminate in soil
SOURCE OF CON	TAMINATION: (ex. UST or other source)
normally appear in a Constituents. I certify the best of my knowled Generators Signature	fying that the waste in question does not contain organic constituents other than those which would inalysis of virgin petroleum product residue, I am submitting this Certificate of Waste by that I am familiar with the source of contamination of the soil and further certify the source, to edge, contains no contaminants other than that listed above.
TRANSPORTER:	
Contact: 5te	DE Mc GINT Phone: 704-588-8527
manifest are properlunder the applicable facility designate.	ify that the materials described above being shipped under this non-hazardous materials y classified, packaged, labeled, secured, and are in proper condition for transport in commerce regulations governing transportation, and I hereby receive this material for delivery to the
TRUCK #:M	1-49 TAG#: VOLUME: 41:40 - 20.5
TRUCK DRIVER	
DESTINATION:	Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038
I certify that the carr	ier has delivered the materials described above to this facility, and I hereby accept this material
	disposal in a manner that has been authorized by the Sate of North Carolina.
Facility Signature:	TAY TOWERY Date: 12/6/11
Signature:	illean Burn Date: 15/6/11
Company Name	Title:
White/Facility	Canary/Invoice Pink/Carrier Goldenrod/Generator

	RONMENTAL SOILS, INC. P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075
	(704) 434-9533 FAX
Job Name:	
COD RAINE.	
	7 40
Truck#	MT-49
Gross Wgt	
Tare Wat-	12:05/1 12/06/2011
idio wgu _	12:09/91 12/06/2015
	- 14 N
Net Wgt.: _	
Tons:	NORTH CAROLINAT PUBLIC WEIGHMASTER
	LICENSE EXDIDES ILINE SO 2014
Weighed by	RAY TOWERY 31768 INVAYID UNLESS SIGNED
moignott bj	INVALID UNLESS SIGNED
18	
- 1. in the	
20 200	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
20 200	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
LA	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
LA	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name:	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name:	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck#	P.O. BOX 295 ATTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name:	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck# Gross Wgt. Tare Wgt:	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck#	P.O. BOX 295 TTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck# Gross Wgt. Tare Wgt:	P.O. BOX 295 ATTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck# Gross Wgt. Tare Wgt:	P.O. BOX 295 ATTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck# Gross Wgt. Tare Wgt: Net Wgt.:	P.O. BOX 295 ATTIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX

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

Date 12/6/11	Load Number 3
	(numbered sequentially as trucks are dispatched)
ENVIRONMENTAL CONSULTANT: Ex	Usammental Compliance Services NC
	Phone: 704-573-2711 Fax: 704-593-2744
GENERATOR: CIACLE & STUTES	· Irc h
Address: 2440 whitehall Pack	O. Charlotte is County: Mackley burg
Contact: Heathe Hermonson	Phone: 704.583-5762
WASTE ORIGINATION POINT: Complete	
* *	
Class & Type of Contaminate in soil	
SOURCE OF CONTAMINATION: (ex. US'	T or other source)
	ISTE CONSTITUENTS: In lieu of submitting analytical data (method
normally appear in analysis of virgin petroleun	estion does not contain organic constituents other than those which would me product residue, I am submitting this Certificate of Waste the source of contamination of the soil and further certify the source, to wants other than that listed above.
	GET for Cick k stres:) Date: 12/4/11
TRANSPORTER:	
Contact:	Phone:
manifest are properly classified, packaged, laborated	ribed above being shipped under this non-hazardous materials eled, secured, and are in proper condition for transport in commerce insportation, and I hereby receive this material for delivery to the
la dem	86600
TRUCK #:	VOLUME: 540180 - 2010
TRUCK DRIVER SIGNATURE: HUM	DATE: 16/11
DESTINATION: Environmental Soils In Site Permit #SR030003	c. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application
I certify that the carrier has delivered the mate	erials described above to this facility, and I hereby accept this material
for treatment and/or disposal in a manner that	t has been authorized by the Sate of North Carolina.
Facility Signature:	Towery Date: 12/6/11
Signature: (Illan /	Brown Date: 12/6/11
Company Name	Title:
White/Facility Canary/Invo	sice Pink/Carrier Goldenrod/Generator

Truck#	ID 45	N. P. C.
Gross Wgt.:	SRUSS TARE MET	66730 15 26600 15 KEYED 40180 15
are Wgt:	12/04/2	011 12:14PM
let Wgt.:	ÿ.	

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Date /Z/G/1/ Load Number 4
(numbered sequentially as trucks are dispatched)
ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIARE Services AC
Contact: Phi Pike Phone: 764-583-2711 Fax: 704-583-2744
GENERATOR: Circle K STORES INC.
Address: 2440 white half Fork Dr. CHARCOTTE NE County: Mecklanding
Contact: Heather Hermanson Phone: 704-583-5762
WASTE ORIGINATION POINT: Complete Address: 6420 1 de if
CHARLOTTE N.C. 282/2
Class & Type of Contaminate in soil CAS
SOURCE OF CONTAMINATION: (ex. UST or other source)
GENERATORS CERTIFICATION OF WASTE CONSTITUENTS: In lieu of submitting analytical data (methor 8240 and 8270) verifying that the waste in question does not contain organic constituents other than those which wou 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: Phy Col. (ACENT Fun Circle le Sture) Date: 12/6/11
Contact: And Lee Phone 790) 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: Date: 12-6-11
TRUCK #:
TRUCK DRIVER SIGNATURE: DATE: DATE: DATE:
DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Applicatio Site Permit #SR0300038
I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this materials
for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina.
Facility Signature: Date: 12/6/11
Signature: Il illian Burn Date: 12/6/11
Company Name
White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

Job Name: _		\	
	1,10 1		
Truck#	· _ in \$6' &	7. ×	14
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4	THE REAL PROPERTY.	DENOISEMENTO.	7
Weighed by:	THOUSE	WATER SHONED	

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Date 12/6/11	Load No	ımber 🤟	5 , 8
	(number	ed sequentially as trucks ar	e dispatched)
ENVIRONMENTAL CO	ONSULTANT: Emily which		
Contact: Phil Pike		7041:583 - 271/ Fax	
GENERATOR:	ki spenis		
Address: Z#10 White	tedate Pade prochase	Count	y: Mechleristine
Contact: Menther i	termonsey.		e: 7341583 -5762
WASTE ORIGINATION	VPOINT: Complete Address: 65	120 Idland Ld	4
	Charle K	2 NE 292/2	., •
Class & Type of Contami	inate in soil	<i>2</i> 8	<u> </u>
SOURCE OF CONTAM	INATION: (ex. UST or other source	ce)	
normally appear in analysis Constituents. I certify that the best of my knowledge, of Generators Signature:	that the waste in question does not entitle is of virgin petroleum product residu. I am familiar with the source of contains no contaminants other than the last for the last	e, I am submitting this Cert tamination of the soil and fu that listed above.	ificate of Waste rther certify the source, to
TO ANICOCOTED.	1/ CANA 1/1 W/ KIAO		
Contact: 15tEve 1	26int	Phone: 704-51	
As the carrier, I certify that manifest are properly class		ng shipped under this non- id are in proper condition f	hazardous materials
Contact:	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and	ng shipped under this non- id are in proper condition f d I hereby receive this mate	hazardous materials
Contact:	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and FAO#:	ng shipped under this non- id are in proper condition f d I hereby receive this mate	hazardous materials or transport in commerce rial for delivery to the
Contact:	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and FAO#:	ng shipped under this non- nd are in proper condition f d I hereby receive this mate Date: VOLUM	hazardous materials or transport in commerce rial for delivery to the
Contact:	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and FAO#:	ng shipped under this non- nd are in proper condition f d I hereby receive this mate Date: VOLUM D.	hazardous materials or transport in commerce rial for delivery to the 6.7620 E: 6.7620 ATE: 12-6-11
As the carrier, I certify that manifest are properly class under the applicable regular facility designate. Carrier Signature: TRUCK #: YMTY TRUCK DRIVER SIGN DESTINATION: Env. Site	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and FAO#: WATURE: Wironmental Soils Inc. 910 Crowder Permit #SR0300038	ng shipped under this non- nd are in proper condition f d I hereby receive this mate Date: VOLUM D. Rd, Shelby, NC 28150 D.	hazardous materials or transport in commerce rial for delivery to the 67620 E: 67620 ATE: 12-6-11
As the carrier, I certify that manifest are properly class under the applicable regular facility designate. Carrier Signature: TRUCK #: Yhard TRUCK DRIVER SIGN DESTINATION: Envisite I certify that the carrier has	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and FAG#: ATURE: ATURE: Permit #SR0300038 Is delivered the materials described as the secured above being above being above being and a secured.	ng shipped under this non- ad are in proper condition f d I hereby receive this mate Date: VOLUM D. Rd, Shelby, NC 28150 De above to this facility, and I	hazardous materials or transport in commerce rial for delivery to the 6.7620 E: 6.7620 ATE: 12-6-11 edicated Land Application hereby accept this material
As the carrier, I certify that manifest are properly class under the applicable regularized facility designate. Carrier Signature: TRUCK #:	at the materials described above being sified, packaged, labeled, secured, and ations governing transportation, and FAO#: WATURE: Wironmental Soils Inc. 910 Crowder Permit #SR0300038	ng shipped under this non- ad are in proper condition f d I hereby receive this mate Date: VOLUM D. Rd, Shelby, NC 28150 De above to this facility, and I	hazardous materials or transport in commerce rial for delivery to the 4.7620 E: 4.780 - 20.59 ATE: 12-6-11 edicated Land Application hereby accept this material Carolina.
As the carrier, I certify that manifest are properly class under the applicable regular facility designate. Carrier Signature: TRUCK #:	at the materials described above being sified, packaged, labeled, secured, an ations governing transportation, and FAG#: ATURE: Particular of the materials described and the materials described an	ng shipped under this non- ad are in proper condition f d I hereby receive this mate Date: VOLUM D. Rd, Shelby, NC 28150 De above to this facility, and I brized by the Sate of North Date	hazardous materials or transport in commerce rial for delivery to the 6.7620 E: 6.7620 ATE: 12-6-11 edicated Land Application hereby accept this material Carolina.
As the carrier, I certify that manifest are properly class under the applicable regular facility designate. Carrier Signature: TRUCK #: Yhird TRUCK DRIVER SIGN DESTINATION: Envisite I certify that the carrier has	at the materials described above being sified, packaged, labeled, secured, an ations governing transportation, and FAG#: ATURE: Particular of the materials described and the materials described an	ng shipped under this non- ad are in proper condition f d I hereby receive this mate Date: VOLUM D. Rd, Shelby, NC 28150 D. above to this facility, and I brized by the Sate of North	hazardous materials or transport in commerce rial for delivery to the 67620 E: 677620 ATE: 12-6-11 edicated Land Application hereby accept this material Carolina.

Job Name: _	· ·	1	
Truck#	ID 49	-	a 2
	- BROSS	67620 1t	
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Weighed by:	RAYTON		31768
	CAME	LIDUNGESS	le I

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Date 12/6/1 Load Num	nber 6
	l sequentially as trucks are dispatched)
ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL	
Contact: Phil Pike Phone: 704	· 572 · 27/1 Fax: 704.583.2744
GENERATOR: Circle & SPIRES IX	*
Address: 2440 whitchall Park or Charlott	c NC County: Merchelon buss
Contact: Mether Hernausen	
WASTE ORIGINATION POINT: Complete Address: 642	o Idada I novill ed
	the AV 28212
Class & Type of Contaminate in soil	v · · · · · · · · · · · · · · · · · · ·
SOURCE OF CONTAMINATION: (ex. UST or other source)	UST
normally appear in analysis of virgin petroleum product residue, Constituents. I certify that I am familiar with the source of conta the best of my knowledge, contains no contaminants other than the Generators Signature:	mination of the soil and further certify the source, to at listed above.
TRANSPORTER:	Dhana
Contact:	Phone:
Contact: As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate.	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the
Contact: As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature:	shipped under this non-hazardous materials are in proper condition for transport in commerce
Contact: As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #: 17-45	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44/20 - 22.06
Contact: As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate.	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44/20 - 22.06
As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #:	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44120 - 32.06
As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #:	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44/20 - 32.06 DATE: 12-/6/11 Rd, Shelby, NC 28150 Dedicated Land Application
As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #:	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44/20 - 32.06 DATE: 12-6/11 Rd, Shelby, NC 28150 Dedicated Land Application pove to this facility, and I hereby accept this material
As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #:	shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44120 - 52.06 DATE: 12-6/11 Rd, Shelby, NC 28150 Dedicated Land Application pove to this facility, and I hereby accept this material
As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #:	Shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44120 - 32.06 DATE: 12-6611 Rd, Shelby, NC 28150 Dedicated Land Application cove to this facility, and I hereby accept this material ized by the Sate of North Carolina.
As the carrier, I certify that the materials described above being manifest are properly classified, packaged, labeled, secured, and under the applicable regulations governing transportation, and facility designate. Carrier Signature: TRUCK #:	Shipped under this non-hazardous materials are in proper condition for transport in commerce I hereby receive this material for delivery to the Date: VOLUME: 44120 - 32.06 DATE: 12-6/11 Rd, Shelby, NC 28150 Dedicated Land Application dove to this facility, and I hereby accept this material ized by the Sate of North Carolina. Date: 12-6/11

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ruck#		A
. " . " . "	GROSS	70720 lb
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	CENSE EXP	IRES JUNE 30, 2011
	CENSE EXP	Jawe 31, 2011
	CENSE EXP	IRES JUNE 30, 2011

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Date 12/6	11/	Load Numl	ber 7	2:	
		•	sequentially as tr	ucks are di	spatched)
ENVIRONMENTA	IL CONSULTANT: <u>En</u> l	mannintal	Complianc.	SERW	NEW NC
Contact: Phil	Pikr	Phone: 70L	1.583-2711	_ Fax: _	704-583-2744
GENERATOR:	ircly k stones	/NC:	+ -		
Address: 24%	white hall PACK	O. Charlet	+ NC	County:	Mecklenburg
Contact: Menth	Er HERMANSAN			Phone:	704.583.5762
WASTE ORIGINA	TION POINT: Complete	Address: 647	TOLEWIK	1 RA	в
V V			- N(2		
Class & Type of Co.	ntaminate in soilGAS				
SOURCE OF CON	TAMINATION: (ex. UST	or other source)_	UST	•	
GENERATORS CI	PRTIFIC ATION OF WAS	TE COMMITTE	TAPPE In Base of		7 . 77 . / 7
8240 and 8270) veri	ERTIFICATION OF WAS fying that the waste in quest	IE GULVSIII U. tion does not conto	EIV I S: In neu of vise consti	suomitting tueste ethe	analytical data (method
normally appear in a	nalysis of virgin petroleum	product residue. I	am submitting ti	bis Certific	twan wose word would ate of Waste
Constituents. I certif	y that I am familiar with th	e source of contam	ination of the so	l and furth	er certify the source, to
the best of my knowle	edge, contains no contamina	nts other than tha	t listed above.	•	, a
Generators Signatur	e: Chap Ch (A)	will fon Cinc	1 k)	Date:_	RIGHT
TRANSPORTER:	RAL Hala	Two			<i>t</i> :
Contact:	Andr Cier		Phone:	700 50	1764
	fy that the materials descri				
manifest are properly	classified, packaged, label	ed, secured, and a	re in proper con	dition for t	ardous materials
under the applicable	regulations governing trans	sportation, and I	hereby receive th	is material	for delivery to the
facility designate.					
Carrier Signature:	byl	-		Date:	12-6-11
0.0					22 800
TRUCK#:	L 1 TAG	#:	V	OLUME:	45200-22.60
TRUCK DRIVER S	GIGNATURE:	I for	± 1 1	DAT	E: 12-6-11
				**	
DESTINATION:	Environmental Soils Inc.	910 Crowder Ro	l, Shelby, NC 28	150 Dedic	cated Land Application
	Site Permit #SR0300038	F			
I certify that the carr	ier has delivered the materi	als described abo	ve to this facility	z and I hen	eby accent this material
for treatment and/or	disposal in a manner that l	nas been authoriz	ed by the Sate o	f North Ca	rolina.
Facility Signature:	Ray Tower			Date:	12/6/11
Signature:	Cliam Beau	6	Dat		2/6/11
Company Name	551		Titl	,	//
White/Facility	C		1./0		11 110
A A THICK L'SCHITA	Canary/Invoic	E P	ink/Carrier	Go	ldenrod/Generator

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ē,	DIE	RI IC WEIGHMASTER
ions:	PU	BLIC WEIGHMASTER E EXPIRES JUNE 30, 2011
Net Wgt.: Fons: Weighed by:	LICENS RAY 20	BLIC WEIGHMASTER E EXPIRES JUNE 30, 2011

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Date
(numbered sequentially as trucks are dispatched)
ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIANCE SERVICES NC
Contact: Phil Ble Phone: 764. 583. 271/ Fax: 764. 583. 2744
GENERATOR: CIACLE K. STANKS INC.
Address: 2440 whitehall Park Or. Suite 800 Charlote ACCounty: Mackland we
Contact: Heather Hermanus Phone: 764-383.5762
WASTE ORIGINATION POINT: Complete Address: 6429 IDEBNIS 08
Charlotte M 282/2
Class & Type of Contaminate in soil CAS
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: Sherlin Date: 12/1/
TRANSPORTER: RAL Hautin Inc.
Contact: find, 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: Date: 12-7-11
TRUCK #: RAL 1 TAG #: VOLUME: 46260 - 23.1.
TRUCK DRIVER SIGNATURE: DATE: 12-7-1
DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038
I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina.
Facility Signature: Al owery Date: 12/7/11
Signature: William Brown Date: 15/7/11
Company Name Title:
White/Facility Canary/Invoice Pink/Carrier Coldensed/Constant

	(. 0 1), 10	1 0000 1700	14
Job Name: _	4	7 2	_
	* =		
Truck#_	id to		
	GROSS	59060 lb	
	TARE	22800 lb KEYED 46260 lb	
aross Wgt.:	MEI	. 46260 <u>1</u> 6	74
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vet Wgt.:	12	-	
ons:	'NC	RTH CAROLINA	
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	LICENSE	IC WEIGHMASTER OPIRES JUNE 30, 2011	
Veighed by:	BAYTOW	RY 31768 OTINIESS SIGNED	

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Non-Hazardous Waste Manifest # Load Number (numbered sequentially as trucks are dispatched) ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIANCE -SANVICES NC Contact: Phil Pike Fax: 764-583-2744 Phone: 704-583-271/ GENERATOR: CIRCLE & STORES Address: 2446 whiteholl PARK DI SHE EN Charlotte NC County: Medifications Phone: 70% 583-5762 WASTE ORIGINATION POINT: Complete Address: 140 IDIE init b 13 Class & Type of Contaminate in soil 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:__ TRANSPORTER: McGiat Thucking Phone: 704-588-4527 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: _ TAG #: ___ TRUCK DRIVER SIGNATURE: DATE: 17-7-1/ DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038 I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina. Facility Signature: Signature: / 1

White/Facility

Company Name _

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

Job Name: _	
Truck#	1.0 49
Gross Wgt.:	RUSS 67980 1b TARE 26440 15 KE/SD NET 41540 1b
Tare Wgt:	12/97/2011 10:28AN
Net Wgt.:	*
Tons:	NORTH CAROLINA PUBLIC WEIGHMASTER
	LICENSE EXPIRES JUNE 30, 2011 RAY TOWERY 31768

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Date	Load Number / C
	(numbered sequentially as trucks are dispatched)
ENVIRONMENTAL CONSU	VILTANT: Grundenmental Complance Services NC
Contact: Phil	Phone: 764-583-2711 Fax: 704-583-2744
GENERATOR: CIRCL	k stunes inc
Address: 2440 whitehal	11 Park D. suite see Charlotte Ne County: Mecklanding
Contact: Henthe Her	Phone: 704-553-5762
WASTE ORIGINATION PO	INT: Complete Address: 6470 2014 MI
	Charlotteric 282/2
Class & Type of Contaminate	in soil <u>GAS</u>
SOURCE OF CONTAMINA	TION: (ex. UST or other source)
normally appear in analysis of a Constituents. I certify that I am	the waste in question does not contain organic constituents other than those which would virgin petroleum product residue, I am submitting this Certificate of Waste I familiar with the source of contamination of the soil and further certify the source, to ins no contaminants other than that listed above.
Generators Signature:	Date: 12/1/11

TRANSPORTER:	
Contact:	Phone:
Contact: As the carrier, I certify that the manifest are properly classified under the applicable regulation	e materials described above being shipped under this non-hazardous materials I, packaged, labeled, secured, and are in proper condition for transport in commerce as governing transportation, and I hereby receive this material for delivery to the
Contact: As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature:	e materials described above being shipped under this non-hazardous materials l, packaged, labeled, secured, and are in proper condition for transport in commerce as governing transportation, and I hereby receive this material for delivery to the Date: 12/7/11 School VOLUME: 76.340-18.1
Contact: As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature: TRUCK #:	e materials described above being shipped under this non-hazardous materials l, packaged, labeled, secured, and are in proper condition for transport in commerce as governing transportation, and I hereby receive this material for delivery to the Date: 12 7 1! TAG #: VOLUME: 36.340-18.1
Contact: As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature: TRUCK #:	e materials described above being shipped under this non-hazardous materials l, packaged, labeled, secured, and are in proper condition for transport in commerce as governing transportation, and I hereby receive this material for delivery to the Date: 121711 TAG #: VOLUME: 36.340-18.1
As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature: TRUCK #:	materials described above being shipped under this non-hazardous materials l, packaged, labeled, secured, and are in proper condition for transport in commerce as governing transportation, and I hereby receive this material for delivery to the Date: 12 7 11 TAG #: VOLUME: 36.340-18.1 DATE: 12 7 1) TRE: DATE: 12 7 1) TRE: DATE: 12 7 1)
Contact: As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature: TRUCK #:	materials described above being shipped under this non-hazardous materials I, packaged, labeled, secured, and are in proper condition for transport in commerce as governing transportation, and I hereby receive this material for delivery to the Date: 12 7 11 VOLUME: 36340-18.1 DATE: 12 7 11 mental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application mit #SR0300038 livered the materials described above to this facility, and I hereby accept this material
Contact: As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature: TRUCK #:	TAG#: VOLUME: Date: VOLUME: DATE: DATE:
As the carrier, I certify that the manifest are properly classified under the applicable regulation facility designate. Carrier Signature: TRUCK #:	TAG#: TAG#: VOLUME: Date: TAG#: DATE:

Tons:	- 01	ORTH CARC BLIC WEIGHT E EXPIRES J	HASTER -
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Tare Wgt:		*****	200 T
Gross Wgt.: _	. 7.	26600 11 26600 11 36340 11 011 10:51	KEYED
Truck#	10 45	62940 IN	
	10 45	j	

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

Non-Hazardous Waste Manifest # Load Number (numbered sequentially as trucks are dispatched) ENVIRONMENTAL CONSULTANT: Environmental Complance SEX VICES Contact: Phil Pike Phone: 704. 583 . 77/1 Fax: 704-583-2744 NC County: Meck Phone: 704. 583-5762 WASTE ORIGINATION POINT: Complete Address: 6476 Ible will 10 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: 980 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: TAG#: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application **DESTINATION:** Site Permit #SR0300038 I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina. Facility Signature:

White/Facility

Company Name

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

Job Name: _	0 ×		
Truck#	10 4		
Gross Wgt.: _	GROSS THRE PET	64380 22800 41560	16 KEYED
	12/57/2	2011 12:3	OPM
Tare Wgt:			780 OF
Net Wgt.:	· ·		
Tons:	P	NORTH CA	HMASTED
Weighed by:	LICEN	SE EXPIRE: OWERY	S JUNE 30, 2011
	IN	ALID UNL =	es picheli

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

Non-Hazardous Waste Manifest #39460 Lead Number (numbered sequentially as trucks are dispatched) ENVIRONMENTAL CONSULTANT: Environmental Compliance SERVICE AVC Phone 704-583-2711 Contact: (PA; GENERATOR: CINC charlette Ne County: Mecklerhure Contact: Walle Hermonson Phone: 704. 583 - 1762 WASTE ORIGINATION POINT: Complete Address: 642 1000 LUCA CLIAN WHE MC 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: 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: TRUCK#: _MT4 TAG #: TRUCK DRIVER SIGNATURE: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application DESTINATION: Site Permit #SR0300038 I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina. Facility Signature: Signature: Company Name White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

Job Name: _	
Truck#	TO 45
	68068 65700 15 TARE 26600 15 KEYED
Gross Wgt.:	NET 39166 16
Tare Wgt:	12 3) · 2011 · 02 · 04 · 1
Net Wgt.:	
Tons:	NORTH CAROLINA PUBLIC WEIGHMASTER
Weighed by:	BAY TOWERY 31768 INVALID UNLESS SIGNED
•	MUNICIPO ONCEDO OND.

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

Date	1	Load Number	
	(numbered sequentially as t	rucks are dispatched)
ENVIRONMENTAL (CONSULTANT ENLICA	ental Compliance	SEXUCES ALC
Contact: Phil Cik	Pho:	ne: 704.883-2711	Fax: 704-583-2744
GENERATOR: CIE	fok stores inc		9
	-hall Plank on state	ses charlotte NC	County: Mecklewhore
Contact: Weather	HBAMANOW		Phone: 704.583-5763
	ONPOINT: Complete Address	6240 11xe wild	
		transfer of the second	82/2
Class & Type of Contain	minate in soil		
SOURCE OF CONTAI	MINATION: (ex. UST or oth	er source) <u>UST</u>	K The second sec
8240 and 8270) verifyin normally appear in anal Constituents. I certify th the best of my knowledge	g that the waste in question do ysis of virgin petroleum produc at I am familiar with the sourc s, contains no contaminants othe	es not contain organic consti t residue, I am submitting t e of contamination of the so	f submitting analytical data (method tuents other than those which would his Gertificate of Waste il and further certify the source, to
Generators Signature:_		* 9	Date: 12/2/11
TRANSPORTER:	McGiRT TRUCKING		
Contact: 5+6	ve mc Gir		W- 588-8527
manifest are properly cla	hat the materials described ab- assified, packaged, labeled, sec- ulations governing transportat	ured, and are in proper con	dition for transport in commerce
	- 3	j	64760 19.1
TRUCK #:AA	TAG#:	V	OLUME: 38320 -477
TRUCK DRIVER SIG	1		DATE:
	K 0	3	Dille12-7-11
<i>DESTINATION:</i> E. SI	nvironmental Soils Inc. 910 C te Permit #SR0300038	Frowder Rd, Shelby, NC 28	3150 Dedicated Land Application
I certify that the carrier l	nas delivered the materials des	cribed above to this facility	y, and I hereby accept this material
for treatment and/or disj	posal in a manner that has bee	n authorized by the Sate o	f North Carolina.
Facility Signature:	AV TOLLIE	421	Date: _/ 2/7/11
Signature: // Si	Elian Bin	Dat	12 /
Company Name	£5 T	Titl	
White/Facility	Canary/Invoice	Pink/Carrier	Goldenrod/Generator

Job Name:			
Truck#	ID 49	2	W
	eross Tares	64760 lb 26440 lb	
Gross Wgt.:		58329 lb	
Tare Wgt:			121
Net Wgt.:	3		
Tons:	PH IDLIC	TH CAROLIN WEIGHMAS	TER .
Weighed by:	RAYTOWE	PIRES JUNE	7
1	INTRILE	LINI ESS SIG	MED

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

Non-Hazardous Waste Manifest #39462 Load Number 14 (numbered sequentially as trucks are dispatched) ENVIRONMENTAL CONSULTANT FALLY AND ALL CUM PROME SECULOR NO Phone: 704-583-2711 Fax: 704:583-2744 Contact: Phil Rike Store INIC Charlotte ax County: Meck Contact: Healder Herman Com Phone: 704-5575762 WASTE ORIGINATION POINT: Complete Address: 6474 Ince will Ad Charlotte NC 28/2 Class & Type of Contaminate in soil 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: Phone:__ Contact: As the carrier, Lecrtify 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: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application **DESTINATION:** Site Permit #SR0300038 I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina. Facility Signature: Signature: / Company Name White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

Job Name: _				
		*	. /	
Truck#			<u> </u>	
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	*		x	
Net Wgt.:		*		
	9			
Tons:		ORTH CA	ROLINA HMASTER	3
	LICENSE	EXPIRES	S JUNE 30, 2	2014
	RAYTOY	VERY	31	768
Weighed by:	CHO.	Joule	Red	-
W	- VYVA	LID UNLF	SS SIGNED	

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

Date 12/9/1 Load Number 15
(numbered sequentially as trucks are dispatched)
ENVIRONMENTAL CONSULTANT: ENVIRONMENTAL COMPLIANCE SERVICES NO
Contact: Phil like Phone: 704-583-2711 Fax: 7:4-583-2744
GENERATOR: CIPCLE & STURES INC
Address: 2440 Whitehall Park Dr Sitte Sou Charlete M. County: Mackenburg
Contact: Heather Hermanson Phone: 204-583-5762
WASTE ORIGINATION POINT! Complete, Address: 642 - The Full 14
charlote NC 287/2
Class & Type of Contaminate in soil
SOURCE OF CONTAMINATION: (ex. UST or other source)
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: Charles Cal. 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 63660 7RUCK #:
TRUCK DRIVER SIGNATURE: Le monte ave DATE: 12911
DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038
I certify that the carries has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina.
Facility Signature: AV /QUEV2 Date: 12/9/11 Signature: Ulllam Avenue Date: 12/9/11
Company Name
White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

Job Name: _	
Truck#	10,43
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Gross Wgt.:	12/09/2011 09/5T#W
Tare Wgt:	10.09.201. 0353.981
Net Wgt.:	
1401 478111	
Tons:	NORTH CAROLINA PUBLIC WEIGHMASTER
Weighed by:	BAYTOWERY 31768
	INVIALID LINI EGG GUNED

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

Non-Hazardous Waste Manifest Load Number (numbered sequentially as trucks are dispatched) ENVIRONMENTAL CONSULTANT ENVIRONMENTAL COMPLIANCE SERVICES Contact: Phil Pik Phone: \$ 04.553-2711 Fax: 7 04- 583-2744 GENERATOR: County: Mcc WASTE ORIGINATION POINT: Complete Address: 78212 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: 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: TRUCK # TRUCK DRIVER SIGNATURE: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application DESTINATION: Site Permit #SR0300038 I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and or disposal in a manner that has been authorized by the Sate of North Carolina. Facility Signature: Signature: Date Company Name ___ Title: White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

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مر سد. او موادر	704/434-0075 (704) 434-9533 FAX
Job Name:	
Truck#	#126
Gross Wgt.	
Tare Wgt: _	10:119K 12/09/2011
Net Wgt.: _	·
Tons:	
Weighed by:	PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2011 RAY TOWERY
veigned by:	
\ 	INVALID UNLESS SIGNED
	RONMENTAL SOILS, INC. P.O. BOX 295
	RONMENTAL SOILS, INC.
LAT	RONMENTAL SOILS, INC. P.O. BOX 295 TIMORE, N.C. 28086-0489 704/434-0075
LAT	RONMENTAL SOILS, INC. P.O. BOX 295 TIMORE, N.C. 28086-0489 704/434-0075
Job Name:	RONMENTAL SOILS, INC. P.O. BOX 295 TIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck# Gross Wgt.:	RONMENTAL SOILS, INC. P.O. BOX 295 TIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
Job Name: Truck# Gross Wgt.: Fare Wgt:	RONMENTAL SOILS, INC. P.O. BOX 295 TIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX
	RONMENTAL SOILS, INC. P.O. BOX 295 TIMORE, N.C. 28086-0489 704/434-0075 (704) 434-9533 FAX

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

ž ×	Non-H	Hazardous Wa	ste Manifest	# 30143		
Date	219/11		_ Load Numb	er	17	
	_ 2 u_ e		(numbered s	equentially as t	rucks are d	ispatched)
ENVIRONMENTA	L CONSULTAI	VI: Envire	SMITHTAL C	ON PLANCE	Service	s NC
Contact: Phi	BIKE	P	hone: 744-			704.583 2744
GENERATOR: Z	inclu k	STURES	INC		3.	
Address: 2448	white hall 6	PANK Dr. S	suite 800	chonlotta	_County:	mecklenburg.
Contact: //ent	her Hesman	MOSI				704-583-5762
WASTE ORIGINAT	TION POINT: C	Complete Add	ress: 6420	IDLE WILL	1 Re	N 4
				late NC		
Class & Type of Cor	taminate in soil	GAS				
SOURCE OF CON	•			UST -	× × -	. ^
9240 and 9270	ALIFICZILIUN	v of Wasie	CUNSTITUE	SIVI 3: In lieu oj	submittin	g analytical data (meth
more alle att an in a	ying tout toe tha	ste in question	aoes not conta	n organic const	tuents othe	r than those which wo
normally appear in a	talysis of virgin	petroleum pro	duct residue, I d	im submitting t	bis Certific	ate of Waste
the best of my knowled	des contains an	ar with the so	urce of contam	ination of the so	il and furth	per certify the source, to
	20 F 2	omiuminanis (otger toan toat	ustea apove.		
Generators Signature	: Chily !	ch	- ", 3"	(*)	Date:	RAIN
TO AKEDODONE			(#1 p)		8	×
TRANSPORTER: _	=			ш а		
Contacti				Phone:		
As the carrier, I certif	y that the mater	rials described	above being sl	hipped under th	nis non-haz	zardous materials
manufest are properly	classified, packa	iged, labeled,	secured, and a	re in proper cor	dition for	transport in commerce
under the applicable	regulations gove	rning transpo	rtation, and I h	ereby receive t	his materia	l for delivery to the
tachity designate.			e i			12/9/11
Carrier Signature:				a	_ Date:	18500
mirror MT	D		•	*		36560
TRUCK #: MT		MAG #: -		V	OLUME:	41980-20
TRUCK DRIVER S	IGNATURE: _	1-UMC	7	- 76	DAT	E: /2/9/11
N				W 12		/ /
DESTINATION:	Environmental	Soils Inc. 910	O Crowder Rd,	Shelby, NC 28	3150 Dedi	cated Land Application
	Site Permit #Sl	R0300038			<i>y</i>	
Certify that the carri	er has delizered	tha matariala	i. Aliandara atra		. 171	
certify that the carri for treatment and/or	disposal in a mar	iner that has	described abov	ed by the Sate of	y, and I ner of North C	epy accept this materi
				a by the bate o	i Horar C	noma.
Facility Signature:	()HY	10W	ern		Date:	12/9/11
Signature:	Elim	1600	المرب	Dat	:e: - '>	17/9/11
Company Name		57		Tit		
	· · ·	D1 E77	e *,	- 2		/
White/Facility	Can	ary/Invoice	Pi	nk/Carrier	Go	ldenrod/Generator

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Job Name: _		
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	RAY TOWERY	31768
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	MANNIN MATERIA	encu
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	P.O. BOX 295 FIMORE, N.C. 280 704/434-0075	86-0489
LAT	TIMORE, N.C. 280	86-0489
	TIMORE, N.C. 2808 704/434-0075	86-0489
Job Name: _	TIMORE, N.C. 280 704/434-0075 (704) 434-9533 FA	86-0489 AX
LAT	TIMORE, N.C. 2808 704/434-0075	86-0489 AX
Job Name: _	TIMORE, N.C. 280 704/434-0075 (704) 434-9533 FA	86-0489 AX
Job Name: _	704/434-0075 (704) 434-9533 FA	86-0489 AX
Job Name: _	704/434-0075 (704) 434-9533 FA	86-0489 AX
Job Name: _	704/434-0075 (704) 434-9533 FA	86-0489 AX
Job Name: Truck# Gross Wgt.: _	FIMORE, N.C. 2800 704/434-0075 (704) 434-9533 FA M T - 3 6RQSS 68540 1b 104028M 12/09/201	86-0489 AX
Job Name: Truck# Gross Wgt.: _	FIMORE, N.C. 2800 704/434-0075 (704) 434-9533 FA M T - 3 6RQSS 68540 1b 104028M 12/09/201	86-0489 AX
Job Name: Truck# Gross Wgt.;	FIMORE, N.C. 2806 704/434-0075 (704) 434-9533 FA M T - 3 SRGSS 68540 1b 104028M 12/09/201	86-0489 AX
Job Name: Truck# Gross Wgt.;	FIMORE, N.C. 2806 704/434-0075 (704) 434-9533 FA M T - 3 SRGSS 68540 1b 104028M 12/09/201	86-0489 AX
Job Name: _	FIMORE, N.C. 2806 704/434-0075 (704) 434-9533 FA M T - 3 SRGSS 68540 1b 104028M 12/09/201	86-0489 AX
Job Name: Truck# Gross Wgt.: Tare Wgt:	FIMORE, N.C. 2800 704/434-0075 (704) 434-9533 F/ M T - 3 6RQSS 68540 1b 104028M 12/09/2011	86-0489 AX
Job Name: Truck# Gross Wgt.: Tare Wgt:	704/434-0075 (704) 434-9533 F/ (704) 434-9533 F/ 6RGSS 68540 1b 104028M 12/09/2011	NA STER
Job Name: Truck# Gross Wgt.: Tare Wgt:	704/434-0075 (704) 434-9533 F/ (704) 434-9533 F/ 6RGSS 68540 1b 10402AM 12/09/2011 NORTH CAROLII PUBLIC WEIGHMAL LICENSE EXPIRES JUN	NA STER E 30, 2011
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Environmental Soils Inc. PO Box 295 • Lattimore, NC 28089 Phone 704-434-0075 • Fax 704-434-9533

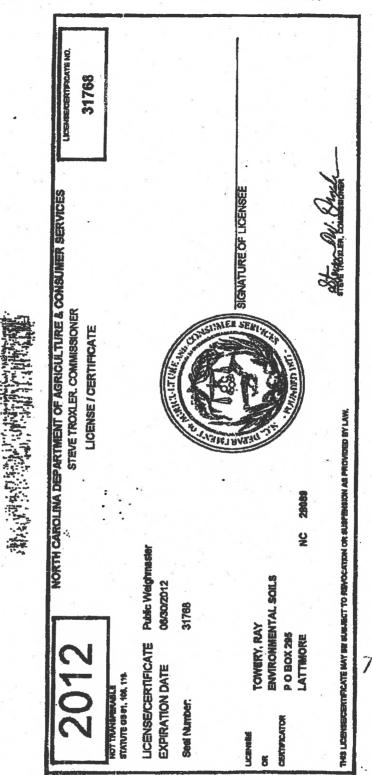
Date	2/9/11		Logid Number	18		
2 KM		4. 7.	(numbered se	quentially as	trucks are d	ispatched)
ENVIRONMEN	TAL CONSULT	ANT: ENVIRA	smental Co	mpliance	Senv	Ces
Contact:	bil Poke	P	hone: 704-			704-583-2744
GENERATOR:	Circle k	Stores	ux	 		
Address: 2446	Whitchall RA	- Dr. Suit	2 Suo Ch	a) ofto N	County:	mechlan but
Contact:					Phone:	704-583.5762
WASTE ORIGI	VATION POINT	Complete Add	ress: <u>642s</u>	Jaeuk	& KA	AR .
			Charlot	F MC	282/2	
Class & Type of				×		
SOURCE OF CO	ONTAMINATIO	N: (ex. UST or o	other source)	UST		
8240 and 8270) v	erifying that the v in analysis of virgi rtify that I am fam	vaste in question in petroleum prod siliar with the so	does not contain duct residue, I an urce of contaniin	organic consi a submitting ation of the s	tituents othe this Certific	g analytical data (methor than those which wou ate of Waste ser certify the source, to
Generators Signa	ture: Ship	Cake			Date:	pos phly
TRANSPORTER	ę	* *				
Contact:	** <	a ** a **		Phone:		
As the carrier, I comanifest are propunder the applical facility designate. Carrier Signature	erly classified, pac ble regulations go	ckaged, labeled, everning transpor	secured, and are	in proper co	ndition for	transport in commerce I for delivery to the
Marian .	126			#	X = 2 .	3650
TRUCK #:	(A)	_ TAG #: _	01	/ \		746120 -23.0
TRUCK DRIVE	R SIGNATURE	: Last	a 1000		DAT	E: 12/9/11
DESTINATION	Environment Site Permit #		Crowder Rd,	Shelby, NC 2	28150 Dedi	cated Land Application
I certify that the c	arrier has delivere or disposal in a n	ed the materials	described above been authorized	to this facili by the Sate	ty, and I her of North C	eby accept this materia
Facility Signature	KAY	1owe	-4		Date:	10/9/11
Signature:	Villeam	Bu	was	Da	ite:	2/9/11
Company Name	67 (58	251		Ti	tle:	. / //
White/Facil	ity C	anary/Invoice	Pini	k/Carrier	C.	Idental/Generator

Truck#	17 175
TUCK#	- 6F089 72700 15
Gross Wgt.: _	TAPE 26580 16 KEYED HET 46120 16
	12/09/2011 01:13PM
Tare Wgt:	
Net Wgt.:	
- 1 (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	NORTH CAROLINA
Tons:	PUBLIC WEIGHMASTER LICENSE EXPIRES JUNE 30, 2011

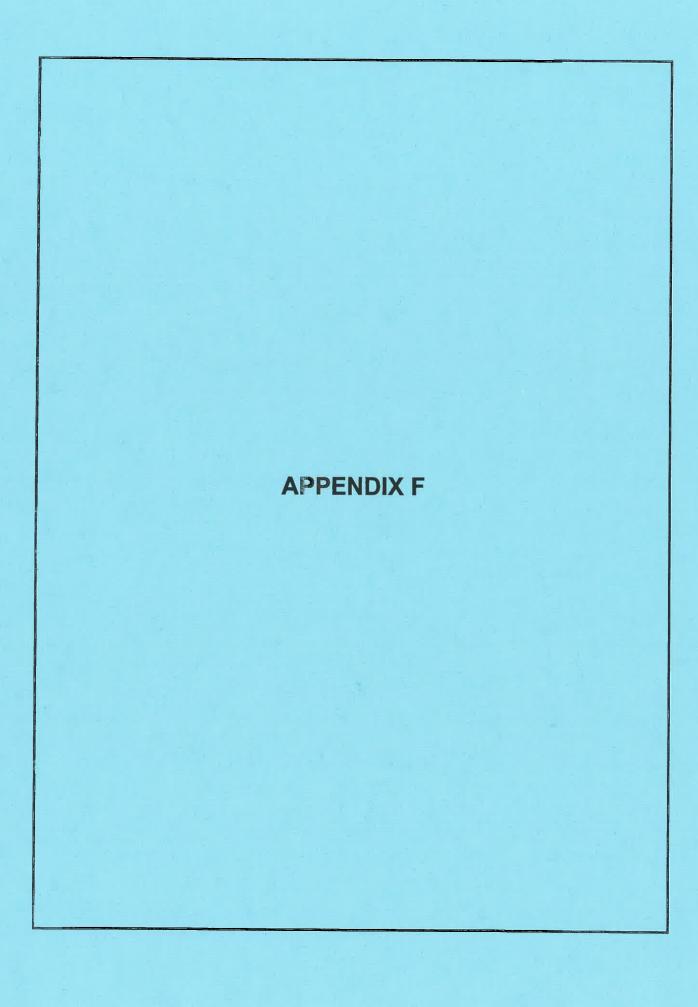
PO Box 295 • Lattimore, NC 28089 Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Mahifest # Date Load Number (numbered sequentially as trucks are dispatched) ENVIRONMENTAL CONSULTANT: ENIMENTE COMPLETE SETUCIO NC Contact: (Phi) Pky Phone: 744-583 -2711 Fax: 704.583-2744 GENERATOR: CILCL County: Mecklerbine. Contact: Phone: 704 - 523 - 5762 WASTE ORIGINATION POINT: Complete Address: 4429 1000 148 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: 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: TAG #: Gernota TRUCK DRIVER SIGNATURE: DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038 I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina. Facility Signature: Signature: (1) Company Name ___ White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

	10:45
Truck#	
d	6R088 67829 16 YARZ 26600 16 KEYED NET 41220 16
Gross Wgt.:	
* 1.8	12/09/201\ 01:20PE
Tare Wgt:	
s. ""	
Net Wgt.:	
	* * * * * * * * * * * * * * * * * * *
Tons:	NORTH CAROLINA PUBLIC WEIGHMASTER
	LICENSE EXPIRES JUNE 30, 2011
Weighed by:	RAYTOWERY 31768
	INVAVIO LINUESS AIGNED



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Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

December 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





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

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

CERTIFICATIONS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.:

92108100

Charlotte Certification IDs

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



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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



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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		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
2108100004	UST-4A	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	JEA	1	PASI-C
2108100005	UST-4B	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
2108100006	UST-4C	EPA 8015 Modified	KJM	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
2108100007	PL-4	EPA 8015 Modified	KJM .	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
2108100008	PL-5	EPA 8015 Modified	KJM	2	PASI-C
	*	ASTM D2974-87	TNM	1	PASI-C
2108100009	PL-6	EPA 8015 Modified	KJM	2	PASI-C
41		ASTM D2974-87	TNM	1:	PASI-C
2108100010	UST-3A	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	- 1	PASI-C
2108100011	UST-3B	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
2108100012	UST-3C	EPA 8015 Modified	KJM	. 2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
2108100013	UST-2A	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DĽK	5	PASI-C
	*	ASTM D2974-87	TNM	1	PASI-C
108100014	UST-2B	EPA 8015 Modified	KJM	2	PASI-C
	9	EPA 8260	DLK	- 5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
108100015	UST-2C	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
2108100016	UST-1A	EPA 8015 Modified	KJM	2	PASI-C

REPORT OF LABORATORY ANALYSIS

Page 4 of 36

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SAMPLE ANALYTE COUNT

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.:

92108100

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
	N - 9	EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100017	UST-1B	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100018	PL-1	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92108100019	PL-2	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	. 5	PASI-C
8	* _ x	ASTM D2974-87	TNM	1	PASI-C
32108100020	PL-3	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	5	PASI-C
		ASTM D2974-87	- TNM ,	1	PASI-C
2108100021	DISPENSER	EPA 8015 Modified	KJM	2	PASI-C
		EPA 8260	DLK	. 5	PASI-C
	A Part of the second of the se	ASTM D2974-87	TNM	1	PASI-C



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ANALYTICAL RESULTS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.: Sample: UST-5A

92108100

Lab ID: 92108100001

Collected: 12/05/11 14:00

1

Received: 12/08/11 15:50

12/09/11 13:40

Matrix: Solid

Results reported on a "dry-weight" basis

Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **Gasoline Range Organics** 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 Surrogates 4-Bromofluorobenzene (S) 149 % 12/12/11 14:42 12/13/11 15:51 460-00-4 70-167 **Percent Moisture** Analytical Method: ASTM D2974-87 Percent Moisture 26.6 % 0.10 0.10



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ANALYTICAL RESULTS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.:

Sample: UST-5B

92108100

Lab ID: 92108100002

Collected: 12/05/11 14:05

Received: 12/08/11 15:50

Matrix: Solid

			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical	Method: EPA	A 8015 Modifie	ed Prepara	tion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	3040 n	ng/kg	133	133	20	12/12/11 14:42	12/13/11 16:15	8006-61-9	
4-Bromofluorobenzene (S)	128 %	6	70-167		20	12/12/11 14:42	12/13/11 16:15	460-00-4	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	24.6 %	6	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

MDL

Received: 12/08/11 15:50

Matrix: Solid

CAS No.

Results reported on a "dry-weight" basis

4-Bromofluorobenzene (S)

Units

Analytical Method: ASTM D2974-87

Report Limit

DF

Prepared

Analyzed

Qual

Parameters Results

Gasoline Range Organics Gasoline Range Organics

701 mg/kg

220 %

Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B 26.3

70-167

26.3

12/12/11 14:42 12/13/11 11:25 8006-61-9

12/12/11 14:42 12/13/11 11:25 460-00-4 S5

Percent Moisture Percent Moisture

Surrogates

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 .: Sample: UST-4A 92108100

Lab ID: 92108100004

Collected: 12/05/11 14:30

Received: 12/08/11 15:50

Matrix: Solid

			Report					·	
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytica	Method: EP	A 8015 Modifie	ed Prepara	ion Me	thod: EPA 5035A	/5030B		+ +
Gasoline Range Organics Surrogates	582 r	mg/kg	12.8	12.8	2	12/12/11 14:42	12/13/11 04:54	8006-61-9	
4-Bromofluorobenzene (S)	= 202 9	%	70-167		2	12/12/11 14:42	12/13/11 04:54	460-00-4	S5
Percent Moisture	Analytica	Method: AS	TM 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-wei	ight" basis							
Parameters	Results Ur	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Metho	od: EPA 8015 Modifie	ed Prepara	tion Me	ethod: EPA 5035A	/5030B	-	SF .
Gasoline Range Organics Surrogates	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	
Percent Moisture	Analytical Metho	od: ASTM D2974-87						
Percent Moisture	24.9 %	0.10	0.10	1		12/09/11 13:17	2 v	



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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

resource on a ary-weight	มนอเอ								
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytica	Method: EP	A 8015 Modifie	ed Prepara	tion Me	ethod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	ND r	ng/kg	6.4	6.4	1	12/13/11 09:01	12/13/11 17:27	8006-61-9	
4-Bromofluorobenzene (S)	. 93 9	%	70-167		1	12/13/11 09:01	12/13/11 17:27	460-00-4	
Percent Moisture	Analytica	Method: AS	TM D2974-87						85
Percent Moisture	21.8 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: PL-4

Lab ID: 92108100007

Units

Collected: 12/08/11 11:35

Received: 12/08/11 15:50

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters

Report

Limit

MDL

DF

10

10

1

Prepared Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B

Analyzed

CAS No.

Qual

Gasoline Range Organics

Gasoline Range Organics Surrogates

1520 mg/kg

59.9 70-167

59.9

12/13/11 09:01 12/14/11 11:02 460-00-4

12/13/11 09:01 12/14/11 11:02 8006-61-9

4-Bromofluorobenzene (S) **Percent Moisture**

Percent Moisture

Analytical Method: ASTM D2974-87 23.2 %

153 %

Results

0.10

0.10

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytica	Method: EP	A 8015 Modifie	ed Prepara	ion Me	thod: 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	
Surrogates 4-Bromofluorobenzene (S)	128 9	% ;	70-167		1	12/13/11 09:01	12/14/11 10:13	460-00-4	
Percent Moisture	Analytica	Method: AS	ΓM D2974-87				2 -		
Percent Moisture	22.0	%	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-6

Lab ID: 92108100009

Units

Collected: 12/08/11 11:45

DF

Received: 12/08/11 15:50

Matrix: Solid

CAS No.

Results reported on a "dry-weight" basis

Report Limit

Analyzed

Qual

Gasoline Range Organics

4-Bromofluorobenzene (S)

Gasoline Range Organics

Parameters

19.3 mg/kg

Results

Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B 6.1

6.1

MDL

Prepared

12/13/11 09:01 12/14/11 09:49 8006-61-9

Percent Moisture

Percent Moisture

Surrogates

Analytical Method: ASTM D2974-87

104 %

24.0 %

0.10

70-167

0.10

12/09/11 13:18

12/13/11 09:01 12/14/11 09:49 460-00-4



Analytical Method: ASTM D2974-87

26.7 %

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12/15/11 21:44 17060-07-0

12/09/11 13:18

ANALYTICAL RESULTS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.: 92108100

Percent Moisture

Percent Moisture

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 Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual **Gasoline Range Organics** 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 Surrogates 4-Bromofluorobenzene (S) 105 % 70-167 40 12/14/11 08:32 12/15/11 12:29 460-00-4 8260/5035A Volatile Organics Analytical Method: EPA 8260 ND ug/kg Ethanol 108000 33400 500 12/15/11 21:44 64-17-5 D3 Surrogates 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

0.10

0.10



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ANALYTICAL RESULTS

Project:

Percent Moisture

NCDOT - IDLEWILD ROAD

Pace Project No .:

92108100

Sample: UST-3B

Lab ID: 92108100011

18.2 %

Collected: 12/06/11 13:15

Received: 12/08/11 15:50

12/09/11 13:18

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed .	CAS No.	Qua
Gasoline Range Organics	Analytical	Method: EP/	A 8015 Modifie	d Prepara	ion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	91.0 n	ng/kg	8.4	8.4	1	12/14/11 08:32	12/15/11 11:16	8006-61-9	
4-Bromofluorobenzene (S)	140 %	6	70-167		1	12/14/11 08:32	12/15/11 11:16	460-00-4	
3260/5035A Volatile Organics	Analytical	Method: EPA	A 8260						
Ethanol Surrogates	ND u	g/kg	10700	3320	50		12/16/11 15:13	64-17-5	D3
Dibromofluoromethane (S)	110 %	6	70-130		50		12/16/11 15:13	1868-53-7	
Toluene-d8 (S)	107 %	6	70-130		50		12/16/11 15:13		
4-Bromofluorobenzene (S)	96 %	6	70-130		50		12/16/11 15:13		
I,2-Dichloroethane-d4 (S)	110 %	6	70-132		50		12/16/11 15:13		
Percent Moisture	Analytical	Method: AST	M D2974-87						

0.10

0.10



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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
Gasoline Range Organics	Analytical M	ethod: EPA	8015 Modifie	ed Prepara	ion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	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	
8260/5035A Volatile Organics	Analytical M	ethod: EPA	8260					8 9	
Ethanol Surrogates	ND ug/k	(g	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	
Percent Moisture	Analytical Me	ethod: AST	M 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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical	Method: EP	4 8015 Modifie	ed Preparat	ion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	294 m	g/kg	13.2	13.2	2	12/14/11 08:32	12/15/11 12:05	8006-61-9	
4-Bromofluorobenzene (S)	174 %		70-167		2	12/14/11 08:32	12/15/11 12:05	460-00-4	S5
3260/5035A Volatile Organics	Analytical	Method: EP/	A 8260						200
thanol Surrogates	ND ug	ı/kg	9730	3020	50		12/15/11 22:24	64-17-5	D3
ibromofluoromethane (S)	112 %		70-130		50		12/15/11 22:24	1868-53-7	
oluene-d8 (S)	99 %		70-130		50		12/15/11 22:24	2037-26-5	
-Bromofluorobenzene (S)	96 %		70-130		50		12/15/11 22:24	460-00-4	
,2-Dichloroethane-d4 (S)	120 %		70-132		50	3 3	12/15/11 22:24	17060-07-0	
ercent Moisture	Analytical I	Method: AST	TM 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.:

Sample: UST-2B

92108100

Lab ID: 92108100014

Collected: 12/06/11 13:30

Received: 12/08/11 15:50

Matrix: Solid

Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method:	EPA 8015 Modifie	ed Prepara	tion Me	thod: EPA 5035A	/5030B	0	
Gasoline Range Organics Surrogates	ND mg/kg	6.7	6.7	1	12/14/11 08:32	12/14/11 13:31	8006-61-9	
4-Bromofluorobenzene (S)	95 %	70-167		1	12/14/11 08:32	12/14/11 13:31	460-00-4	
8260/5035A Volatile Organics	Analytical Method:	EPA 8260						
Ethanol <i>Surrogates</i>	ND ug/kg	295	91.6	. 1	9	12/17/11 14:44	64-17-5	
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		
I-Bromofluorobenzene (S)	95 %	70-130		1		12/17/11 14:44		
1,2-Dichloroethane-d4 (S)	113 %	70-132		1		12/17/11 14:44		
Percent Moisture	Analytical Method:	ASTM D2974-87						ű.
Percent Moisture	18.0 %	0.10	0.10	1		12/09/11 13:22		
	\ii							



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ANALYTICAL RESULTS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.: Sample: UST-2C

92108100

Lab ID: 92108100015

Collected: 12/06/11 13:35

Received: 12/08/11 15:50

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical	Method: EPA	A 8015 Modifie	ed Prepara	ion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Gurrogates	ND m	g/kg	6.5	6.5	1	12/14/11 08:32	12/14/11 14:43	8006-61-9	
-Bromofluorobenzene (S)	98 %		70-167		1	12/14/11 08:32	12/14/11 14:43	460-00-4	
260/5035A Volatile Organics	Analytical	Method: EPA	A 8260						
thanol <i>urrogat</i> es	ND u	g/kg	225	69.9	1		12/17/11 15:04	64-17-5	
ibromofluoromethane (S)	115 %		70-130		1		12/17/11 15:04	1868-53-7	
oluene-d8 (S)	102 %		70-130		1		12/17/11 15:04	2037-26-5	
Bromofluorobenzene (S)	97 %		70-130		1		12/17/11 15:04	460-00-4	
,2-Dichloroethane-d4 (S)	111 %		70-132		1		12/17/11 15:04	17060-07-0	
ercent Moisture	Analytical	Method: AST	M D2974-87						
ercent Moisture	18.7 %		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-1A

Lab ID: 92108100016

Collected: 12/06/11 14:05 Received: 12/08/11 15:50

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical	Method: EPA	A 8015 Modifie	d Prepara	tion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	1980 n	ng/kg	70.0	70.0	10	12/14/11 08:32	12/15/11 12:53	8006-61-9	
4-Bromofluorobenzene (S)	165 %	6	70-167		10	12/14/11 08:32	12/15/11 12:53	460-00-4	
8260/5035A Volatile Organics	Analytical	Method: EP/	A 8260						
Ethanol Surrogates	ND u	g/kg	57100	17700	250		12/16/11 21:13	64-17-5	D3
Dibromofluoromethane (S)	106 %	0	70-130		250	ω.	12/16/11 21:13	1868-53-7	
Toluene-d8 (S)	100 %	6	70-130		250		12/16/11 21:13	2037-26-5	
4-Bromofluorobenzene (S)	100 %	, D	70-130		250		12/16/11 21:13	460-00-4	
1,2-Dichloroethane-d4 (S)	116 %	Ď	70-132		250		12/16/11 21:13	17060-07-0	
Percent Moisture	Analytical	Method: AS1	M D2974-87						
Percent Moisture	26.8 %		0.10	0.10	1		12/09/11 13:23		



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ANALYTICAL RESULTS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.:

Sample: UST-1B

92108100

Lab ID: 92108100017

Collected: 12/06/11 14:10

Received: 12/08/11 15:50

Matrix: Solid

Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method:	EPA 8015 Modifie	ed Prepara	tion Me	thod: EPA 5035A	/5030B	71 P	
Gasoline Range Organics Surrogates	2390 mg/kg	129	129	20	12/14/11 08:32	12/15/11 13:17	8006-61-9	
4-Bromofluorobenzene (S)	128 %	70-167		20	12/14/11 08:32	12/15/11 13:17	460-00-4	
8260/5035A Volatile Organics	Analytical Method:	EPA 8260						
Ethanol Surrogates	ND ug/kg	46700	14500	200		12/16/11 21:33	64-17-5	D3
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	- 4
Percent Moisture	Analytical Method:	ASTM D2974-87					37	
Percent Moisture	28.1 %	0.10	0.10	1		12/09/11 13:23		



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ANALYTICAL RESULTS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.: Sample: PL-1

92108100

Lab ID: 92108100018

Collected: 12/08/11 11:20

Received: 12/08/11 15:50

Matrix: Solid

Parameters	Results	Units	Report Limit	MDL	DF	Dropored	Amalianad	04011	25
		Office		IVIDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical I	Method: EP	A 8015 Modifie	ed Preparat	tion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	ND mg	g/kg	6.0	6.0	-1	12/14/11 08:32	12/15/11 10:28	8006-61-9	
4-Bromofluorobenzene (S)	96 %	181	70-167		1	12/14/11 08:32	12/15/11 10:28	460-00-4	
3260/5035A Volatile Organics	Analytical I	Method: EPA	A 8260						
Ethanol Surrogates	ND ug	/kg	166	51.4	1		12/17/11 15:24	64-17-5	v s
Dibromofluoromethane (S)	108 %		70-130		1		12/17/11 15:24	1868-53-7	
oluene-d8 (S)	101 %		70-130		1	2 7	12/17/11 15:24		
-Bromofluorobenzene (S)	94 %		70-130		1		12/17/11 15:24		
,2-Dichloroethane-d4 (S)	109 %		70-132		1		12/17/11 15:24	17060-07-0	
Percent Moisture	Analytical N	/lethod: AS	M D2974-87			4)	5		
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

Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EF	PA 8015 Modifie	ed Prepara	tion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	15.7 mg/kg	6.2	6.2	1	12/14/11 08:32	12/14/11 16:20	8006-61-9	
4-Bromofluorobenzene (S)	100 %	70-167		1	12/14/11 08:32	12/14/11 16:20	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EF	PA 8260					8	
Ethanol Surrogates	ND ug/kg	168	52.2	1		12/16/11 16:33	64-17-5	1g
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
Percent Moisture	Analytical Method: AS	TM D2974-87					6.2	
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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical	Method: EP/	A 8015 Modifie	d Prepara	tion Me	thod: EPA 5035A	/5030B		
Gasoline Range Organics Surrogates	1330 m	ıg/kg	53.1 ₇	53.1	10	12/14/11 08:32	12/15/11 13:42	8006-61-9	
1-Bromofluorobenzene (S)	166 %	5	70-167		10	12/14/11 08:32	12/15/11 13:42	460-00-4	
260/5035A Volatile Organics	Analytical	Method: EPA	A 8260						
Ethanol Surrogates	ND u	g/kg	17000	5260	100		12/16/11 22:13	64-17-5	D3
Dibromofluoromethane (S)	105 %)	70-130	107	100		12/16/11 22:13	1868-53-7	
oluene-d8 (S)	93 %	,	70-130		100		12/16/11 22:13	2037-26-5	
-Bromofluorobenzene (S)	105 %	•	70-130		100		12/16/11 22:13	460-00-4	
,2-Dichloroethane-d4 (S)	131 %		70-132		100		12/16/11 22:13	17060-07-0	
ercent Moisture	Analytical	Method: AST	M 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 Report **Parameters** Results Units Limit MDL ĎF Prepared Analyzed CAS No. Qual **Gasoline Range Organics** 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 Surrogates 4-Bromofluorobenzene (S) 175 % 70-167 12/14/11 08:32 12/15/11 11:40 460-00-4 S2 8260/5035A Volatile Organics Analytical Method: EPA 8260 Ethanol ND ug/kg 4340 1350 25 12/16/11 22:33 64-17-5 D3 Surrogates 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 **Percent Moisture** Analytical Method: ASTM D2974-87 Percent Moisture 21.6 % 0.10 0.10 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

Blank

Reporting

Parameter

Units

Result ND Limit Analyzed 5.6

12/12/11 21:23

Gasoline Range Organics 4-Bromofluorobenzene (S)

mg/kg %

91

70-167 12/12/11 21:23

LABORATORY CONTROL SAMPLE: 698593

> Spike Parameter Units Conc.

> > Units

mg/kg

%

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 MS

Result

MSD

MSD Result

MS % Rec

MSD % Rec

Qualifiers

% Rec Max Limits RPD RPD

Qual 6 30

Gasoline Range Organics 4-Bromofluorobenzene (S)

Parameter

92108077005 Spike Conc. ND

Spike Conc. 27.5 27.5

Result 34.4

698595

MS

36.4

125 89

132 91

47-187 70-167

Date: 12/19/2011 04:46 PM



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QUALITY CONTROL DATA

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.:

92108100

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

METHOD BLANK: 698826

Matrix: Solid

Associated Lab Samples:

92108100005, 92108100006, 92108100007, 92108100008, 92108100009 Blank

Result

Parameter Gasoline Range Organics Units

Reporting Limit

Analyzed Qualifiers

4-Bromofluorobenzene (S)

mg/kg %

ND 93

5.7 12/13/11 09:21 70-167 12/13/11 09:21

LABORATORY CONTROL SAMPLE: 698827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics 4-Bromofluorobenzene (S)	mg/kg %	23.6	23.7	100	70-165	0 - 0
· Signification contraction (o)	70			93	70-167	



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QUALITY CONTROL DATA

Project:

NCDOT - IDLEWILD ROAD

Pace Project No .:

QC Batch Method:

92108100

QC Batch:

GCV/5595

EPA 5035A/5030B

Analysis Method:

EPA 8015 Modified

Analysis Description:

Associated Lab Samples:

Gasoline Range Organics

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 Blank

Result

Parameter Gasoline Range Organics 4-Bromofluorobenzene (S)

Units mg/kg

Units

Reporting Limit

Analyzed Qualifiers

ND 5.8 12/14/11 09:25 92 70-167 12/14/11 09:25

LABORATORY CONTROL SAMPLE:

Parameter

699407

%

Spike Conc.

LCS Result 23.8

LCS % Rec % Rec Limits

Qualifiers

91

Gasoline Range Organics 4-Bromofluorobenzene (S)

Parameter

Gasoline Range Organics

4-Bromofluorobenzene (S)

mg/kg %

Units

mg/kg

24.3

98 97

70-165 70-167

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

699408

ND

Result

MS 92108100014 Spike Conc.

MSD Spike Conc. 27.8

MS Result 27.8 41.4

699409

MSD Result 40.5

MS MSD % Rec % Rec 138

91

% Rec Limits RPD 47-187 2

70-167

Max RPD Qual 30

Date: 12/19/2011 04:46 PM



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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

LABORATORY CONTROL SAMPLE:

Matrix: Solid

Associated Lab Samples:

92108100010, 92108100012, 92108100013

700245

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	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethanol	ug/kg	2000	2190	109	70-130	
1.2-Dichloroethane-d4 (S)	%			00	70 422	

Ethanoi	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)	%	20		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	50
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	P		
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		



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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:

s: 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	000
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%	7.		101	70-130	

MATRIX SPIKI	E SAMPLE:	701489

WATER OF INC SAMELL.	701409						
Parameter	Units	92108156002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%	1 H =			108	70-132	
4-Bromofluorobenzene (S)	%				99	70-132	
Dibromofluoromethane (S)	%			A 8	107	70-130	
Toluene-d8 (S)	%				101	70-130	y/0

SAMPLE DUPLICATE: 701488

Parameter	Units	92108091002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethanol	ug/kg	ND ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	110	8	00	
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 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	



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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

99

70-130

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	Y ₄
Toluene-d8 (S)	%	102	70-130	12/17/11 13:05	

LABORATORY	CONTROL SAMP	PLE:	70 1526
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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)	%		21	100	70-130	

MATRIX SPIKE SAMPLE:		
MATRIX COIKE CAMDIE:		

WATRIX SPIKE SAMIFLE.	101023							
Parameter	Units	92108279002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifier s	
1,2-Dichloroethane-d4 (S)	%	E .			97	70-132		
4-Bromofluorobenzene (S)	%				96	70-130		
Dibromofluoromethane (S)	%				104	70-130		

SAMPLE DUPLICATE: 701622

Toluene-d8 (S)

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

92108077001 Result

Dup

Max

Parameter

Parameter

Units

Result

RPD

RPD

Qualifiers

Percent Moisture

Percent Moisture

%

26.4

27.6

5

25

SAMPLE DUPLICATE: 697460

92108100004 Result

Dup Result

RPD

Max RPD

Qualifiers

Units

22.6

23.4

4

25

Date: 12/19/2011 04:46 PM



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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, 92108100017, 92108100018, 921

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	(25	



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QUALIFIERS

Project:

NCDOT - IDLEWILD ROAD

Pace Project No.: 92

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).