UNDERGROUND STORAGE TANK CLOSURE REPORT

The closure report should contain, at a minimum, the following information. Any other information that is pertinent to the site should be included.

I. General Information

A. Ownership of UST(s)

1. *Name of UST owner:*
   Eden Oil Company
2. *Owner address and telephone number:*
   124 Fieldcrest Road
   Eden, North Carolina 27288-3946 (336) 349-8228

B. Operator of UST(s)

1. *Name of UST operator.*
   KJS Express
2. *Operator address and telephone number.*
   800 South Main Street
   King, North Carolina 27021 No telephone

C. Facility Information:

1. *Facility name:* KJS Express
2. *Facility ID #:* 0-036461
3. *Facility address, telephone number and county*:
   800 South Main Street
   King, Forsyth County, North Carolina 27021 No telephone

D. Contacts

1. *Name, address, telephone number and job title of primary contact person:*
   Mr. Cyrus Parker
   North Carolina Department of Transportation
   Geotechnical Engineering Unit,
   1589 Mail Service Center
   Raleigh, North Carolina 27699-1589
   (919) 250-4088

2. *Name, address and telephone number of closure contractor:*
   Soil Solutions, Inc.
   1703 Vargrave Street, Winston-Salem, North Carolina 27107
   (336) 725-5844

3. *Name, address and telephone number of primary consultant:*
   Earth Tech
   701 Corporate Center Drive, Suite 475
   Raleigh, NC 27607
   (919) 854-6200

4. *Name, address, telephone number and State certification number of laboratory:*
Pace Analytical.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078 (704) 875-9092 Certification No. 37706

E. UST Information

Tank no.	Installation dates	Size in Liters (Gallons)	Tank Dimensions m (ft) D x L	Last Contents	Previous Contents (if any)
1	1/11/01	15,140 (4,000)	2.4 x 4.5 (8' x 15')	Kerosene	None
2	1/11/01	30,280 (8,000)	2.4 x 6.4 (8' x 21')	Diesel Fuel	None
3	1/11/01	37,850 (10,000)	2.4 x 9.1 (8' x 30')	Gasoline	None
4	1/11/01	56,775 (15,000)	2.4 x 12.2 (8' x 40')	Gasoline	None

F. Site Characteristics

1. *Describe any past releases at this site:*
A Preliminary Site Assessment was conducted in May 2005 at the site. At that time, the USTs were not within the proposed right-of-way. However, the site was taken in its entirety as permanent easement. While no soil samples were collected during the assessment specifically for the UST area, several borings were located in the vicinity of the USTs. Soil samples were analyzed from these borings and no total petroleum hydrocarbons were detected in any of the samples. No groundwater was encountered and no groundwater sample was collected for analysis.

2. *Is the facility active or inactive at this time? If the facility is inactive note the last time the USTs were in operation:*
The property was used as a gas station until mid 2007. The USTs were located within the NCDOT right-of-way, which has been acquired as a permanent easement.

3. *Describe the surrounding property use (for example, residential, commercial farming, etc.):*
The property surrounding the site is generally commercial or undeveloped.

4. *Describe site geology/hydrogeology:*
According to the Geologic Map of North Carolina, dated 1985, the site is in the Piedmont Physiographic Province. The lithology underlying the site consists of a granitic gneiss described as megacrystalline with local amphibolite. Native soil at the site consisted of a medium to reddish brown sandy clay. No groundwater was observed in the UST excavation.

5. *Describe results of receptor survey (water wells, basements, etc., within 1500 feet of the facility).* ***To be performed if a release has occurred.***
An aerial reconnaissance of the area within 457 meters (1500 feet) of the site was conducted to evaluate the presence of potential receptors. The land use in the area is predominantly undeveloped or commercial. A public water supply is available to all properties in the area.

II. Closure Procedures

A. *Describe preparations for closure including the steps taken to notify authorities, permits obtained and the steps taken to clean and purge the tanks.*
The available information indicated that the USTs were part of a gas station. As such, the North Carolina Department of Environment and Natural Resources (NCDENR) was notified of the closure on August 21, 2007. Soil Solutions contacted the local authorities for permits. To remove the USTs, the surface soil was excavated, and loose soil was removed with shovels. Lower explosive limits (LEL) readings of below 5% were obtained and the USTs were removed from the ground. During removal, eyehooks on the 8,000-gallon diesel fuel and 15,000-gallon gasoline tanks came loose and no other means were available to remove the tanks intact. As a result, these two fiberglass USTs were demolished within the excavation and removed in pieces. The product had been removed prior to demolishing the tanks and only a small amount of product (less than 5 gallons) was released into the underlying pea gravel. After removal, the USTs were disposed off-site.

B. *Note the amount of residual material pumped from the tank(s):*
A total of about 36 gallons of product/water were removed from the tanks.

C. *Describe the storage, sampling and disposal of the residual material:*
The water/product in the USTs was removed with a vacuum truck and transported to the Soil Solutions facility in Winston-Salem, North Carolina, for disposal.

D. *Excavation*

Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater, Volume I for Sources Other than Petroleum Storage Tanks or Volume II for Petroleum Underground Storage Tanks" on limiting excavations. The State Trust Fund will not pay for excessive excavation. Potentially uncontaminated soil may be separated from potentially contaminated soil based on field screening readings; however, laboratory confirmation is required to document the presence or absence of contamination for disposal purposes.

1. *Describe excavation procedures noting the condition of the soils and the dimensions of the excavation in relation to the tanks, piping and/or pumps:*
On August 28, 2007, Earth Tech supervised the removal of the USTs. The soil above the tanks and from one side of the tanks was removed by a backhoe to allow for their removal. Soil field screening indicated elevated readings below the two gasoline USTs. However, the NCDOT was not the responsible party and no additional soil removal was conducted. Soil samples were collected for analysis. Approximately 150 tons of pea gravel and soil were removed from the excavation. None of this material exhibited odors or staining and was not considered contaminated. Consequently, the material was used as backfill. The resulting excavation measured about 13.7 meters (45 feet) wide, 16.7 meters (55 feet) long, and 3.6 meters (12 feet) deep. No groundwater was noted at the bottom of the excavations.

2. *Note the depth of tank burial(s) from land surface to top of tank:*
The depth to the top of the tanks was about 1 meter (3 feet) below grade.

3. *Quantity of soil removed:*
Approximately 150 tons of pea gravel and soil were excavated to remove the USTs. No pea gravel from below the tanks was removed. None of the excavated material was considered contaminated and was used as backfill.

4. *Describe the soil types:*
The material immediately surrounding the USTs was pea gravel. The native soil consisted of medium to reddish brown sandy clay.

5. *Type and source of backfill used:*
The excavation was backfilled with the excavated material and soil from a clean source in Forsyth County, North Carolina.

6. *Describe condition of the UST system(s) (i.e., pitting, holes, etc.).*
The USTs at the site were made of fiberglass-reinforced plastic (FRP) and had been in the ground at the property for about five years. Upon inspection of the tanks, no corrosion and pitting were noted. But, when the 30,280- (8,000-) and 56,775-liter (15,000-gallon) tanks were removed, the eyehooks on the tanks came off and the tanks had to be demolished in-place to be removed.

7. *Note if the excavation reached the groundwater table or bedrock surface.*
No groundwater was encountered in the excavation.

E. *Contaminated Soil*

Note: Suspected contaminated soil should be segregated from soil that appears to be uncontaminated and should be treated as contaminated until proven otherwise. It should <u>not</u> be used as backfill. Any soil contaminated to levels above the MDLs should not be placed back into the excavation.

1. *Describe how it was determined to what extent to excavate the soil:*
In accordance with NCDENR guidelines, sufficient soil was excavated to allow the removal of the USTs. Field screening was then used to evaluate soil conditions. Based on the field screening on August 28, 2007, contaminated soil was present below the tanks. From the NCDENR guidelines, soil samples were collected from below the USTs, but no additional excavation was conducted. While the NCDOT generally removes as much contaminated soil as possible, this right-of-way was acquired as permanent easement and only the soil requiring excavation for the removal of the USTs was removed.

2. *Describe the method of temporary storage, sampling and treatment/disposal of soil:*
Soils removed during the excavation were screened with a combination flame and photo ionization detector (FID/PID). None of the pea gravel and soils excavated from around the USTs exhibited elevated field screening readings. As such, the material was used as backfill. Elevated readings were noted from soil below the gasoline USTs.

III. Site Investigation

A. *Provide information on field screening and observations, include methods used to calibrate field screening instrument(s):*

Field screening was performed with a combination flame and photo ionization detector (FID/PID) that had been calibrated prior to field activities. Representative samples were collected and placed in resealable plastic bags. After allowing sufficient time for volatilization, the headspace was measured with the FID.

B. *Describe soil sampling points and sampling procedures used, including:*

Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" for information about sampling requirements.

- *Location of samples*
- *Type of samples (from excavation, stockpiled soil, etc.)*
- *Sample collection procedures (grab, split spoon, hand auger, etc.)*
- *Depth of soil samples (below land surface)*
- *Whether samples were taken from side or floor of excavation*
- *Sample identification*
- *Sample analysis*

Soil samples were collected for the UST removal in accordance with NCDENR guidelines. The UST sample locations are shown on the attached UST Sample Location Map (Figure 2). Soil samples UST-1 and UST-2 were collected from below the 15,140-liter (4,000-gallon) UST. Soil samples UST-3 and UST-4 were collected from below the 30,280-liter (8,000-gallon) UST. Soil samples UST-5, UST-6, and UST-7 were collected from below the 37,850-liter (10,000-gallon) UST, and soil samples UST-8 through UST-11 were collected from below the 56,250-liter (15,000-gallon) UST. Soil samples were also collected from below the dispenser locations (D-1 through D-5) and from below the product lines (PL-1 through PL-4). The product line and dispenser samples were collected from depths of about 0.6 meters (2 feet) and the UST soil samples were collected from a depth of about 3.6 meters (12 feet) (Table 1). The soil samples from the site were analyzed for total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO). The analytical results are summarized in Table 3.

C. *Describe groundwater or surface water sampling procedures used, including:*

Note: Refer to the "Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater" for information about sampling requirements.

- *Location of samples*
- *Sample collection procedures (grab, bailer, etc.)*
- *Sample identification*
- *Sample analyses*

No groundwater sample was collected for analysis as part of the UST removal.

D. *Quality control measures*

- *Describe sample handling procedures including sample preservation and transportation*
- *Describe decontamination procedures used*
- *Describe time and date samples were collected and date submitted to lab*
- *Describe samples collected for quality control purposes (e.g. duplicates, field blanks, trip blanks, etc.).*

Include methods used to obtain these samples and analytical parameters.
- *Discuss how results of quality control samples may have affected your interpretation of soil, groundwater or surface water sample results*

Soil samples were collected from the backhoe bucket and placed in laboratory-supplied containers using new nitrile gloves for each sample. The laboratory supplied all bottleware. After collection, all samples were placed on ice and transported to the laboratory by laboratory courier. The soil samples were collected on August 28, 2007. The soil samples were delivered to the laboratory on August 29, 2007. The soil samples were kept chilled with fresh ice placed in the sample cooler as appropriate until transported to the laboratory.

E. *Describe investigation results, including:*
- *Methods of analyses used (include U.S. EPA method number)*
- *Analytical results for samples; discuss in relation to site-specific cleanup level or action level, as appropriate*

After collection of the samples, a laboratory courier transported them to Pace Analytical in Huntersville, North Carolina for analysis. The UST soil samples were analyzed for TPH DRO and GRO.

The analytical results of the UST soil samples (Table 3) show that three of the five soil samples from below the dispensers contained detectable concentrations of diesel fuel. None of the four soil samples collected from below the product lines contained detectable DRO or GRO concentrations. Five of the 11 soil samples collected from below the USTs contained detectable DRO and GRO concentrations. With the exception of the sample from below the 4,000-gallon kerosene UST (6.0 mg/kg DRO), all of the DRO and GRO concentrations detected were above the NCDENR guideline of 10 mg/kg for gasoline or diesel fuel concentrations.

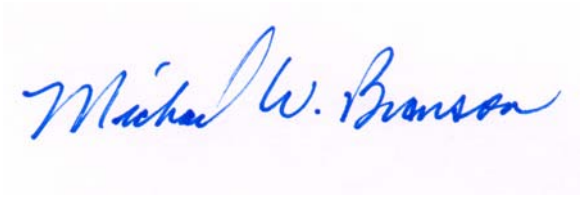
IV. Conclusions and Recommendations

Include probable sources of contamination, further investigation or remedial tasks, and whether no further action is required.

The analytical results of the soil samples from the site indicate that diesel fuel compounds above the action level were detected in the soil samples from below the 8,000-gallon tank and DRO and GRO concentrations above the action level were detected in the soil samples from below the 10,000-gallon gasoline UST. The relatively low concentrations of DRO detected in samples UST-3 (72.3 mg/kg) and UST-4 (11.7 mg/kg) suggest that these concentrations may have been the result of the in-place tank demolition. However, the presence of high DRO concentrations in samples UST-6 (194 mg/kg) and UST-7 (111 mg/kg) from below the 10,000-gallon UST indicates that a release of diesel fuel likely occurred prior to demolition of the 8,000-gallon diesel tank. In addition, GRO concentrations were detected in samples UST-6 (277 mg/kg) and UST-7 (16.5 mg/kg) from below the 10,000-gallon UST. Because the 10,000-gallon gasoline UST was removed intact and the soil samples from below this tank were collected prior to the demolition of the 15,000-gallon UST, these data imply that a release has occurred from the 10,000-gallon tank. Further evidence of a release from the system prior to closure is that no DRO or GRO concentrations were detected from soil sample collected from below the 15,000-gallon UST that was demolished in-place. Two soil samples, containing DRO concentrations above the action level, from below the dispensers (D-2 at 53.8 mg/kg and D-3 at 83.8 mg/kg) further suggests a

release from the UST system. These soil samples also indicate that contaminated soil remains on the property. Based on the analytical results, additional soil removal or assessment may be required.

V. Signature of Professional Engineer or Licensed Geologist



☐ **Professional Engineer Registration #:**
☒ **Licensed Geologist License #:** 467

Note: Required if a release or discharge of product from the tank(s) has occurred. If a release or discharge has not occurred, the signature or seal; of a P.E. or L.G. is not required.

VI. Enclosures

A. Figures

1. Area map(s) (can be USGS Topographic Quadrangle) showing:
   - Adjacent streets, roads, highways with names and numbers
   - Buildings
   - Surface water bodies
   - Groundwater flow direction (if available)
   - Scale
   - North arrow
   - If a release has occurred show public and private water supply well(s) within 1,500 feet of the site.

2. Site map of UST excavation area drawn to scale, showing:
   - Buildings
   - Underground utilities such as sewer lines and other conduits
   - Orientation of UST(s), pumps, and product lines
   - Length, diameter and volume of USTs
   - Type of material(s) stored in USTs (currently and previously)
   - Sample locations (identified by letter or number)
   - Groundwater well locations
   - Groundwater flow direction (if available)
   - Final limits of excavation
   - North arrow
   - Scale

3. Maps depicting analytical results, to include:
    - Orientation of UST(s), pumps, and product lines
    - Sample locations, depths, and identifications
    - Analytical results
    - Final limits of excavation(s)

B. Tables

1. Field screening results
2. Sample identifications, depths and analyses
3. Sample identifications with results and dates that samples were taken

C. Appendices

Appendix A: Notification of intent to close (GW/UST-3)
Appendix B: Site Investigation Report for Permanent Closure or Change-in-Service of UST (GW/UST-2)
Appendix C: Certificate of tank disposal
Appendix D: Soil, water, sludge disposal manifests
Appendix E: Complete chain-of-custody records
Appendix F: Copy of all laboratory analytical records
Appendix G: Photographs of Closure Activities (optional)

TABLE 1

FIELD SCREENING RESULTS
FORMER PALMER MANAGEMENT LLC PROPERTY (PARCEL #58)
KING, FORSYTH COUNTY, NORTH CAROLINA
NCDOT PROJECT NO. R-2201
WBS ELEMENT 34380.1.1
EARTH TECH PROJECT NO. 101730

SAMPLE IDENTIFICATION	DEPTH m (ft)	FID READING (ppm)
UST-1	1.6 (12)	6.03
UST-2	1.6 (12)	1.51
UST-3	1.6 (12)	47
UST-4	1.6 (12)	41
UST-5	1.6 (12)	2,335
UST-6	1.6 (12)	139,700
UST-7	1.6 (12)	8435
UST-8	1.6 (12)	719
UST-9	1.6 (12)	982
UST-10	1.6 (12)	1934
UST-11	1.6 (12)	4.05
D-1	0.6 (2)	3.95
D-2	0.6 (2)	191
D-3	0.6 (2)	28
D-4	0.6 (2)	2.04
D-5	0.6 (2)	0.29
PL-1	0.6 (2)	5.44
PL-2	0.6 (2)	96
PL-3	0.6 (2)	2.75
PL-4	0.6 (2)	1.08

ppm = parts per million

TABLE 2

SAMPLE IDENTIFICATION
FORMER PALMER MANAGEMENT LLC PROPERTY (PARCEL #58)
KING, FORSYTH COUNTY, NORTH CAROLINA
NCDOT PROJECT NO. R-2201
WBS ELEMENT 34380.1.1
EARTH TECH PROJECT NO. 101730

SAMPLE IDENTIFICATION	SAMPLE MEDIA	DEPTH m (ft)	SAMPLE PHASE	ANALYSES
UST-1	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-2	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-3	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-4	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-5	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-6	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-7	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-8	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-9	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-10	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
UST-11	Soil	1.6 (12)	UST Removal	TPH DRO/GRO
D-1	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
D-2	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
D-3	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
D-4	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
D-5	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
PL-1	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
PL-2	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
PL-3	Soil	0.6 (2)	UST Removal	TPH DRO/GRO
PL-4	Soil	0.6 (2)	UST Removal	TPH DRO/GRO

TPH DRO = Diesel fuel range total petroleum hydrocarbons.
TPH GRO = Gasoline range total petroleum hydrocarbons.

TABLE 3

SOIL SAMPLE ANALYTICAL RESULTS
FORMER PALMER MANAGEMENT LLC PROPERTY (PARCEL #58)
WBS ELEMENT 34380.1.1
KING, FORSYTH COUNTY, NORTH CAROLINA
EARTH TECH PROJECT NO. 101730

Analytical Method			TPH 5030	TPH 3550
Contaminant of Concern			Gasoline	Diesel Fuel
Sample ID	Date Collected	Sample Depth m (ft)		
UST-1	8/28/2007	1.6 (12)	<7.7	<6.2
UST-2	8/28/2007	1.6 (12)	<6.5	**6.0**
UST-3	8/28/2007	1.6 (12)	<8.3	**72.3**
UST-4	8/28/2007	1.6 (12)	<8.7	**11.7**
UST-5	8/28/2007	1.6 (12)	<7.5	<6.3
UST-6	8/28/2007	1.6 (12)	**277**	**194**
UST-7	8/28/2007	1.6 (12)	**16.5**	**111**
UST-8	8/28/2007	1.6 (12)	<6.6	<6.1
UST-9	8/28/2007	1.6 (12)	<7.1	<7.1
UST-10	8/28/2007	1.6 (12)	<7.7	<6.5
UST-11	8/28/2007	1.6 (12)	<8.1	<6.0
D-1	8/28/2007	0.6 (2)	<8.5	<6.8
D-2	8/28/2007	0.6 (2)	<6.9	**53.8**
D-3	8/28/2007	0.6 (2)	<8.6	**83.8**
D-4	8/28/2007	0.6 (2)	<6.7	<7.0
D-5	8/28/2007	0.6 (2)	<7.6	<6.8
PL-1	8/28/2007	0.6 (2)	<6.4	<7.0
PL-2	8/28/2007	0.6 (2)	<7.6	<6.4
PL-3	8/28/2007	0.6 (2)	<6.0	<6.8
PL-4	8/28/2007	0.6 (2)	<7.9	<6.8
UST Section Action Level			10	10

TPH 3550 = Diesel fuel range total petroleum hydrocarbons.
TPH 5030 = Gasoline range total petroleum hydrocarbons.

All soil results are expressed in mg/kg.

FIGURES

SCALE 1:24,000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

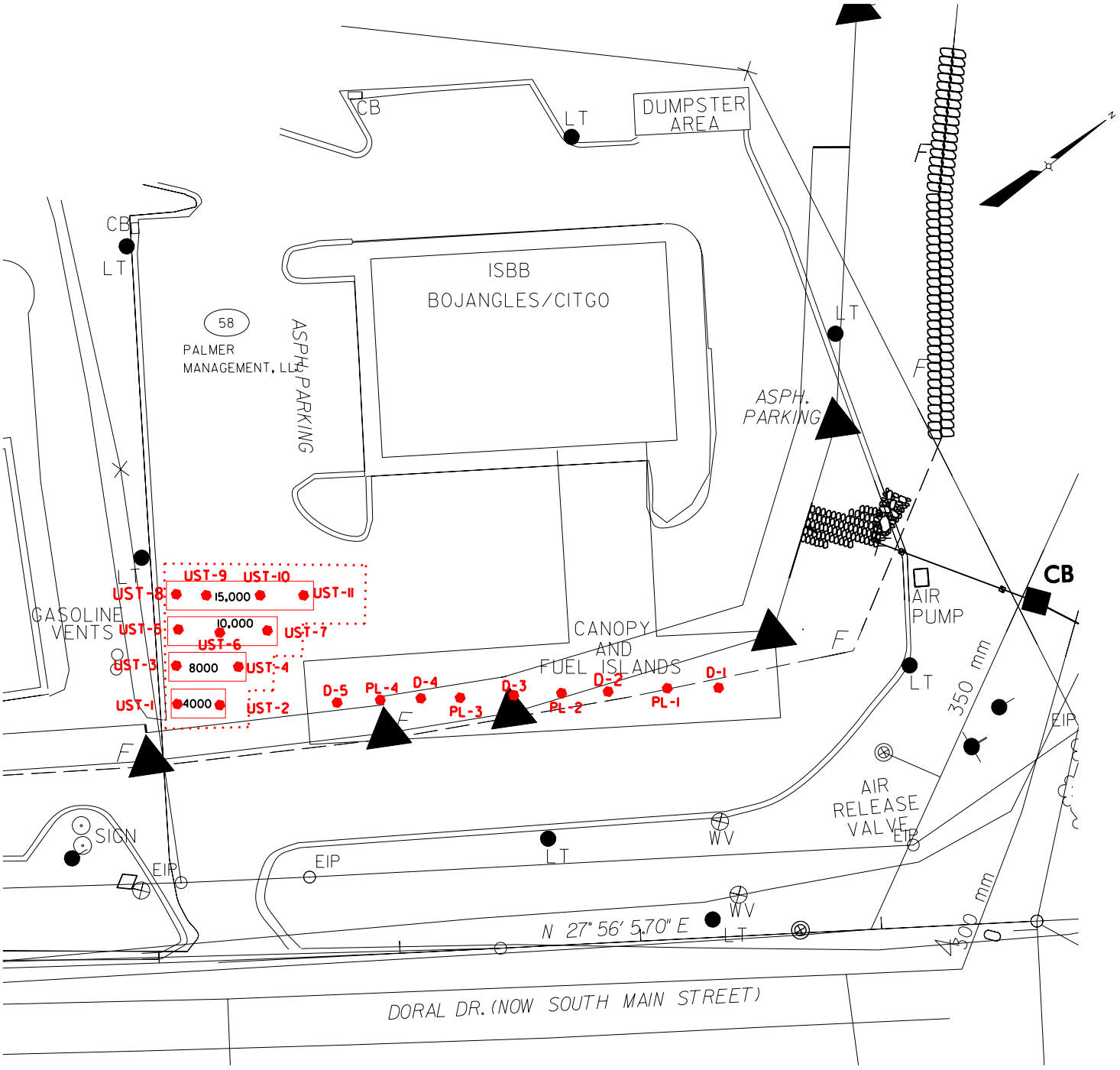
SOURCE: U.S. GEOLOGICAL SURVEY 7.5 MIN QUADRANGLE: KING, NC (REV 1983)

EARTH TECH

FIGURE 1
VICINITY MAP
PALMER MANAGEMENT LLC PROPERTY (PARCEL #58)
KING, NORTH CAROLINA

AUGUST 2007

101730



LEGEND

UST-1 SOIL SAMPLE LOCATION AND IDENTIFICATION

UST LOCATION AND SIZE IN GALLONS

APPROXIMATE EXTENT OF EXCAVATION

0 10 20

GRAPHIC SCALE (meters)

EARTH TECH

FIGURE 2

SOIL SAMPLE LOCATION MAP

PALMER MANAGEMENT LLC PROPERTY (PARCEL #58)

KING, NORTH CAROLINA

AUGUST 2007

101730

APPENDIX A
Notice of Intent to Close

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

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

STATE USE ONLY
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

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

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

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

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

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Eden Oil Company	
Street Address 124 Fieldcrest Road	
City Eden	County Rockingham
State NC	Zip Code 27288-3946
Phone Number 336-349-8228	

II. LOCATION

Facility Name or Company KJS Express		
Facility ID # (If known) 0-036461		
Street Address 800 South Main Street		
City King	County Forsyth	Zip Code 27021
Phone Number NA		

III. CONTACT PERSONNEL

Name:	Company Name:	Job Title:	Phone Number:
Cyrus Parker	NCDOT	Project Geologist	2504088

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

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

V. WORK TO BE PERFORMED BY

Contractor Name: Tony Disher	Contractor Company Name: Soil Solutions		
Address: 1703 Vargrave St., Winston-Salem	State: NC	Zip Code: 27107	Phone No: 336-725-5844
Primary Consultant Name: Michael Branson	Primary Consultant Company Name: Earth Tech		Consultant Phone No: 919-854-6200

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

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity: Closure – Removal	Proposed Activity: Closure – Abandonment in Place *	Proposed Activity: Change-In-Service – New Contents Stored
1	15000	Gasoline, Gas Mix	☒	☐	
2	10000	Gasoline, Gas Mix	☒	☐	
3	8000	Dielsel, Dielsel Mix	☒	☐	
4	4000	Kerosene	☒	☐	
			☐	☐	

* 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: Michael Branson, Project Manager for Earth Tech

Signature	Date Signed	SCHEDULED REMOVAL DATE	**Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes**
Michael Branson	8/21/07	08/28/07	

APPENDIX B
Site Investigation Report

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

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

STATE USE ONLY:
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

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

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity)		
Eden Oil Company		
Street Address		
124 Fieldcrest Road		
City	County	
Eden	Rockingham	
State	Zip Code	
NC	27288-3946	
Phone Number		
336-349-8228		

II. LOCATION OF TANKS

Facility Name or Company		
KJS Express		
Facility ID # (If known)		
0-036461		
Street Address		
800 South Main Street		
City	County	Zip Code
King	Forsyth	27021
Phone Number		
None		

III. CONTACT PERSONNEL

Contact for Facility: Cyrus Parker (NCDOT)		Job Title: Geoenvironmental Project Manager	Phone. No: 919.250.4088
Closure Contractor Name: Tony Disher	Closure Contractor Company: Soil Solutions, Inc.	Address: 1703 Vargrave St., Winston-Salem, N	Phone. No: 336.725.5844
Primary Consultant Name: Michael Branson	Primary Consultant Company: Earth Tech	Address: 701 Corporate Center Drive, Raleigh	Phone. No: 919.854.6200

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
1	4000	8' X 15'	Kerosene	2007	8/28/07		☐	☒	☐	☒	☐	☒
2	8000	8' X 21'	Dielsel, Diels	2007	8/28/07		☐	☒	☐	☒	☐	☒
3	10000	8' X 30'	Gasoline, Ga	2007	8/28/07		☐	☒	☐	☒	☒	☐
4	15000	8' X 40'	Gasoline, Ga	2007	8/28/07		☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

VII. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
Michael Branson, Earth Tech for NCDOT	Michael Branson	9/17/2007

APPENDIX C
Certificate of Tank Disposal

SOIL SOLUTIONS

TANKS DISPOSAL CERTIFICATE

Tank Owner: NCDOT

Site Address: 800 S. Main St.
King, NC

Description of Tanks:

Tank Number	Size of Tank	Contents
1	15,000 Gallons	Gasoline
2	10,000 Gallons	Gasoline
3	8,000 Gallons	Diesel
4	4,000 Gallons	Kerosene

Transporter: Soil Solutions, Inc.

SSI Project #: 080731

Disposal Certification:

Soil Solutions, Inc. does hereby certify that the above named storage tanks were transported to Winston-Salem Hanes Mill Landfill in Winston-Salem, NC for proper disposal and recycling.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.

1703 Vargrave Street Winston-Salem, NC 27107
(336) 725-5844 FAX (336) 725-6244

APPENDIX D
Soil, Water, and Sludge Disposal Manifests

SOIL SOLUTIONS

CERTIFICATE OF DISPOSAL

Soil Solutions, Inc. does hereby certify that 36 gallons of non-hazardous contaminated water received on 08/27/2007 from:

Generator: NCDOT

Originating at: 800 S. Main St.
King, NC

SSI Waste ID #: 080731

has been disposed of by Soil Solutions, Inc. in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.

1703 Vargrave Street Winston-Salem, NC 27107
(336) 725-5844 FAX (336) 725-6244

APPENDIX E
Chain-of-Custody Records

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1127236

Section A Required Client Information:

Company: EARTH TECH
Address: 701 Corporate Center Dr Ste 475 Raleigh NC 27607
Email To: MIKE.BRANSON@EARTHTECH.COM
Phone: 9198546238 Fax: 9198546259
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MIKE BRANSON
Copy To: NCDOT
Purchase Order No.:
Project Name: NCDOT - PALMER
Project Number: 101730

Section C Invoice Information:

Attention:
Company Name: NCDOT
Address:
Pace Quote Reference: WBS# 34380.1.1
Pace Project Manager: Reece
Pace Profile #: 11680-1

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DRO	GRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-1	SL		8/28/07	0900				4	2						2			✓	✓		922557 01
2	D-2	SL		8/28/07	1015				4	2						2			✓	✓		02
3	D-3	SL		8/28/07	1020				4	2						2			✓	✓		03
4	D-4	SL		8/28/07	1030				4	2						2			✓	✓		04
5	D-5	SL		8/28/07	1040				4	2						2			✓	✓		05
6	PL-1	SL		8/28/07	1300				4	2						2			✓	✓		06
7	PL-2	SL		8/28/07	1310				4	2						2			✓	✓		07
8	PL-3	SL		8/28/07	1320				4	2						2			✓	✓		08
9	PL-4	SL		8/28/07	1330				4	2						2			✓	✓		09
10	UST-1	SL		8/29/07	0930				4	2						2			✓	✓		10
11	UST-2	SL		8/28/07	0940				4	2						2			✓	✓		11
12	UST-3	SL		8/28/07	1130				4	2						2			✓	✓		12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	M Branson / Earth Tech	8/29/7	11:20	Rob Ampt / Pace	8/29/7	11:20				
	Rob Ampt / Pace	8/29/7	15:25	C. Wilson	8/29	15:25	5.8	4	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M BRANSON
SIGNATURE of SAMPLER: M Branson
DATE Signed (MM/DD/YY): 8/29/07

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

1127237

Section A Required Client Information:

Company: EARTH TECH
Address: 701 Corporate Center Dr Ste 475 Raleigh NC 27607
Email To: Mike.Branson@EARTHTECH.com
Phone: 9198546238 Fax: 9198546259
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MIKE BRANSON
Copy To: NCDOT
Purchase Order No.:
Project Name: NCDOT – PACMOX
Project Number: 101730

Section C Invoice Information:

Attention:
Company Name: NCDOT
Address:
Pace Quote Reference: CUBS# 34380, 1.1
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: DRO	GRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	UST-4	SL		8/28/07	1140				4	2						2			✓	✓			13
2	UST-5	SL		8/28/07	1520				4	2						2			✓	✓			14
3	UST-6	SL		8/28/07	1530				4	2						2			✓	✓			15
4	UST-7	SL		8/28/07	1540				4	2						2			✓	✓			16
5	UST-8	SL		8/28/07	1800				4	2						2			✓	✓			17
6	UST-9	SL		8/28/07	1810				4	2						2			✓	✓			18
7	UST-10	SL		8/28/07	1820				4	2						2			✓	✓			19
8	UST-11	SL		8/28/07	1830				4	2						2			✓	✓			20
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	M Branson / Earth Tech	8/29/7	11:20	R Knight / Pace	8/29/7	11:20				
	R Knight / Pace	8/29/7	15:25	C. Weeden	8/29	15:25	5.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M Branson

SIGNATURE of SAMPLER: M Branson

DATE Signed (MM/DD/YY): 8/29/07

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX F
Laboratory Analytical Records

Pace Analytical®
www.pacelabs.com

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

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

September 13, 2007

Mr. Mike Branson
NCDOT
701 Corporate Center Dr Suite
Raleigh, NC 27607

RE: Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Dear Mr. Branson:
Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Renee Doggett

renee.doggett@pacelabs.com
Project Manager

Enclosures

cc: Mr. Christopher Peoples, NCDOT- Materials & Test Unit

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

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

CERTIFICATIONS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Charlotte Certification IDs
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706

Asheville Certification IDs
Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 990300001
South Carolina Bioassay Certification Number: 990300002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

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

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(704)875-9092

SAMPLE SUMMARY

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Lab ID	Sample ID	Matrix	Date Collected	Date Received
922587001	**D-1**	Solid	08/28/07 09:00	08/29/07 15:25
922587002	**D-2**	Solid	08/28/07 10:15	08/29/07 15:25
922587003	**D-3**	Solid	08/28/07 10:20	08/29/07 15:25
922587004	**D-4**	Solid	08/28/07 10:30	08/29/07 15:25
922587005	**D-5**	Solid	08/28/07 10:40	08/29/07 15:25
922587006	**PL-1**	Solid	08/28/07 13:00	08/29/07 15:25
922587007	**PL-2**	Solid	08/28/07 13:10	08/29/07 15:25
922587008	**PL-3**	Solid	08/28/07 13:20	08/29/07 15:25
922587009	**PL-4**	Solid	08/28/07 13:30	08/29/07 15:25
922587010	**UST-1**	Solid	08/28/07 09:30	08/29/07 15:25
922587011	**UST-2**	Solid	08/28/07 09:40	08/29/07 15:25
922587012	**UST-3**	Solid	08/28/07 11:30	08/29/07 15:25
922587013	**UST-4**	Solid	08/28/07 11:40	08/29/07 15:25
922587014	**UST-5**	Solid	08/28/07 15:20	08/29/07 15:25
922587015	**UST-6**	Solid	08/28/07 15:30	08/29/07 15:25
922587016	**UST-7**	Solid	08/28/07 15:40	08/29/07 15:25
922587017	**UST-8**	Solid	08/28/07 18:00	08/29/07 15:25
922587018	**UST-9**	Solid	08/28/07 18:10	08/29/07 15:25
922587019	**UST-10**	Solid	08/28/07 18:20	08/29/07 15:25
922587020	**UST-11**	Solid	08/28/07 18:30	08/29/07 15:25

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SAMPLE ANALYTE COUNT

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Lab ID	Sample ID	Method	Analytes Reported
922587001	D-1	ASTM D2974-87	1
		EPA 8015 Modified	4
922587002	D-2	ASTM D2974-87	1
		EPA 8015 Modified	4
922587003	D-3	ASTM D2974-87	1
		EPA 8015 Modified	4
922587004	D-4	ASTM D2974-87	1
		EPA 8015 Modified	4
922587005	D-5	ASTM D2974-87	1
		EPA 8015 Modified	4
922587006	PL-1	ASTM D2974-87	1
		EPA 8015 Modified	4
922587007	PL-2	ASTM D2974-87	1
		EPA 8015 Modified	4
922587008	PL-3	ASTM D2974-87	1
		EPA 8015 Modified	4
922587009	PL-4	ASTM D2974-87	1
		EPA 8015 Modified	4
922587010	UST-1	ASTM D2974-87	1
		EPA 8015 Modified	4
922587011	UST-2	ASTM D2974-87	1
		EPA 8015 Modified	4
922587012	UST-3	ASTM D2974-87	1
		EPA 8015 Modified	4
922587013	UST-4	ASTM D2974-87	1
		EPA 8015 Modified	4
922587014	UST-5	ASTM D2974-87	1
		EPA 8015 Modified	4
922587015	UST-6	ASTM D2974-87	1
		EPA 8015 Modified	4
922587016	UST-7	ASTM D2974-87	1
		EPA 8015 Modified	4
922587017	UST-8	ASTM D2974-87	1
		EPA 8015 Modified	4
922587018	UST-9	ASTM D2974-87	1
		EPA 8015 Modified	4
922587019	UST-10	ASTM D2974-87	1

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Lab ID	Sample ID	Method	Analytes Reported
		EPA 8015 Modified	4
922587020	**UST-11**	ASTM D2974-87	1
		EPA 8015 Modified	4

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: D-1 **Lab ID: 922587001** Collected: 08/28/07 09:00 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.8	1	09/06/07 00:00	09/11/07 23:16	68334-30-5	
n-Pentacosane (S)	86	%	50-135	1	09/06/07 00:00	09/11/07 23:16	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.5	1	08/31/07 15:11	09/04/07 13:05	8006-61-9	
4-Bromofluorobenzene (S)	158	%	50-135	1	08/31/07 15:11	09/04/07 13:05	460-00-4	S3
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.2**	%	0.10	1		08/30/07 15:48		

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: D-2 **Lab ID: 922587002** Collected: 08/28/07 10:15 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**53.8**	mg/kg	6.2	1	09/06/07 00:00	09/10/07 16:51	68334-30-5	
n-Pentacosane (S)	107	%	50-135	1	09/06/07 00:00	09/10/07 16:51	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.9	1	08/31/07 15:11	09/04/07 13:47	8006-61-9	
4-Bromofluorobenzene (S)	85	%	50-135	1	08/31/07 15:11	09/04/07 13:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.8**	%	0.10	1		08/30/07 15:49		

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: D-3 **Lab ID: 922587003** Collected: 08/28/07 10:20 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**83.8**	mg/kg	7.2	1	09/06/07 00:00	09/11/07 23:41	68334-30-5	
n-Pentacosane (S)	123	%	50-135	1	09/06/07 00:00	09/11/07 23:41	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.6	1	08/31/07 15:11	09/04/07 14:07	8006-61-9	
4-Bromofluorobenzene (S)	85	%	50-135	1	08/31/07 15:11	09/04/07 14:07	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.5**	%	0.10	1		08/30/07 15:49		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: D-4 **Lab ID: 922587004** Collected: 08/28/07 10:30 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	7.0	1	09/06/07 00:00	09/10/07 17:16	68334-30-5	
n-Pentacosane (S)	103	%	50-135	1	09/06/07 00:00	09/10/07 17:16	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.7	1	08/31/07 15:11	09/04/07 14:28	8006-61-9	
4-Bromofluorobenzene (S)	85	%	50-135	1	08/31/07 15:11	09/04/07 14:28	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**29.0**	%	0.10	1		08/30/07 15:50		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: D-5 **Lab ID: 922587005** Collected: 08/28/07 10:40 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.8	1	09/06/07 00:00	09/10/07 20:07	68334-30-5	
n-Pentacosane (S)	113	%	50-135	1	09/06/07 00:00	09/10/07 20:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.6	1	08/31/07 15:11	09/04/07 14:49	8006-61-9	
4-Bromofluorobenzene (S)	85	%	50-135	1	08/31/07 15:11	09/04/07 14:49	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.5**	%	0.10	1		08/30/07 15:50		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: PL-1 **Lab ID: 922587006** Collected: 08/28/07 13:00 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	7.0	1	09/06/07 00:00	09/10/07 20:33	68334-30-5	
n-Pentacosane (S)	97	%	50-135	1	09/06/07 00:00	09/10/07 20:33	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.4	1	08/31/07 15:11	09/04/07 15:10	8006-61-9	
4-Bromofluorobenzene (S)	77	%	50-135	1	08/31/07 15:11	09/04/07 15:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.4**	%	0.10	1		08/30/07 15:51		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: PL-2 **Lab ID: 922587007** Collected: 08/28/07 13:10 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.4	1	09/06/07 00:00	09/11/07 13:35	68334-30-5	
n-Pentacosane (S)	76	%	50-135	1	09/06/07 00:00	09/11/07 13:35	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.6	1	08/31/07 15:11	09/04/07 15:30	8006-61-9	
4-Bromofluorobenzene (S)	83	%	50-135	1	08/31/07 15:11	09/04/07 15:30	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.4**	%	0.10	1		08/30/07 15:51		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: PL-3 **Lab ID: 922587008** Collected: 08/28/07 13:20 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.8	1	09/06/07 00:00	09/10/07 20:58	68334-30-5	
n-Pentacosane (S)	97	%	50-135	1	09/06/07 00:00	09/10/07 20:58	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.0	1	08/31/07 15:11	09/04/07 15:51	8006-61-9	
4-Bromofluorobenzene (S)	83	%	50-135	1	08/31/07 15:11	09/04/07 15:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.7**	%	0.10	1		08/30/07 15:51		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: PL-4 **Lab ID: 922587009** Collected: 08/28/07 13:30 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.8	1	09/06/07 00:00	09/11/07 14:01	68334-30-5	
n-Pentacosane (S)	91	%	50-135	1	09/06/07 00:00	09/11/07 14:01	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.9	1	08/31/07 15:11	09/04/07 16:12	8006-61-9	
4-Bromofluorobenzene (S)	83	%	50-135	1	08/31/07 15:11	09/04/07 16:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.1**	%	0.10	1		08/30/07 15:52		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-1 **Lab ID: 922587010** Collected: 08/28/07 09:30 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.2	1	09/06/07 00:00	09/10/07 21:24	68334-30-5	
n-Pentacosane (S)	87	%	50-135	1	09/06/07 00:00	09/10/07 21:24	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.7	1	08/31/07 15:11	09/04/07 17:14	8006-61-9	
4-Bromofluorobenzene (S)	83	%	50-135	1	08/31/07 15:11	09/04/07 17:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.2**	%	0.10	1		08/30/07 15:52		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-2 **Lab ID: 922587011** Collected: 08/28/07 09:40 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**6.0**	mg/kg	5.7	1	09/06/07 00:00	09/11/07 14:26	68334-30-5	
n-Pentacosane (S)	82	%	50-135	1	09/06/07 00:00	09/11/07 14:26	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.5	1	08/31/07 15:11	09/04/07 17:35	8006-61-9	
4-Bromofluorobenzene (S)	83	%	50-135	1	08/31/07 15:11	09/04/07 17:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.7**	%	0.10	1		08/30/07 15:05		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-3 **Lab ID: 922587012** Collected: 08/28/07 11:30 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**72.3**	mg/kg	6.0	1	09/06/07 00:00	09/10/07 21:49	68334-30-5	
n-Pentacosane (S)	115	%	50-135	1	09/06/07 00:00	09/10/07 21:49	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.3	1	08/31/07 15:11	09/04/07 17:56	8006-61-9	
4-Bromofluorobenzene (S)	79	%	50-135	1	08/31/07 15:11	09/04/07 17:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.8**	%	0.10	1		08/30/07 15:05		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-4 **Lab ID: 922587013** Collected: 08/28/07 11:40 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**11.7**	mg/kg	7.0	1	09/06/07 00:00	09/11/07 14:52	68334-30-5	
n-Pentacosane (S)	85	%	50-135	1	09/06/07 00:00	09/11/07 14:52	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.7	1	08/31/07 15:11	09/04/07 18:16	8006-61-9	
4-Bromofluorobenzene (S)	78	%	50-135	1	08/31/07 15:11	09/04/07 18:16	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**29.0**	%	0.10	1		08/31/07 13:13		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-5 **Lab ID: 922587014** Collected: 08/28/07 15:20 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.3	1	09/06/07 00:00	09/10/07 22:14	68334-30-5	
n-Pentacosane (S)	103	%	50-135	1	09/06/07 00:00	09/10/07 22:14	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.5	1	08/31/07 15:11	09/04/07 18:37	8006-61-9	
4-Bromofluorobenzene (S)	85	%	50-135	1	08/31/07 15:11	09/04/07 18:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.1**	%	0.10	1		08/31/07 13:13		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-6 **Lab ID: 922587015** Collected: 08/28/07 15:30 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**194**	mg/kg	6.2	1	09/06/07 00:00	09/11/07 15:18	68334-30-5	
n-Pentacosane (S)	89	%	50-135	1	09/06/07 00:00	09/11/07 15:18	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**277**	mg/kg	7.5	1	08/31/07 15:11	09/04/07 18:58	8006-61-9	
4-Bromofluorobenzene (S)	138	%	50-135	1	08/31/07 15:11	09/04/07 18:58	460-00-4	1g
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.7**	%	0.10	1		08/31/07 13:13		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-7 **Lab ID: 922587016** Collected: 08/28/07 15:40 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	**111**	mg/kg	6.4	1	09/06/07 00:00	09/10/07 22:40	68334-30-5	
n-Pentacosane (S)	93	%	50-135	1	09/06/07 00:00	09/10/07 22:40	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**16.5**	mg/kg	8.3	1	08/31/07 15:11	09/05/07 14:57	8006-61-9	
4-Bromofluorobenzene (S)	107	%	50-135	1	08/31/07 15:11	09/05/07 14:57	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.2**	%	0.10	1		08/31/07 13:14		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-8 **Lab ID: 922587017** Collected: 08/28/07 18:00 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.1	1	09/07/07 00:00	09/12/07 00:58	68334-30-5	
n-Pentacosane (S)	52	%	50-135	1	09/07/07 00:00	09/12/07 00:58	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.6	1	08/31/07 15:11	09/04/07 19:39	8006-61-9	
4-Bromofluorobenzene (S)	78	%	50-135	1	08/31/07 15:11	09/04/07 19:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.0**	%	0.10	1		08/31/07 13:14		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-9 **Lab ID: 922587018** Collected: 08/28/07 18:10 Received: 08/29/07 15:25 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	7.1	1	09/07/07 00:00	09/12/07 09:52	68334-30-5	
n-Pentacosane (S)	52	%	50-135	1	09/07/07 00:00	09/12/07 09:52	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.1	1	08/31/07 15:11	09/04/07 20:00	8006-61-9	
4-Bromofluorobenzene (S)	78	%	50-135	1	08/31/07 15:11	09/04/07 20:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**29.3**	%	0.10	1		08/31/07 13:14		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-10 **Lab ID: 922587019** Collected: 08/28/07 18:20 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.5	1	09/07/07 00:00	09/12/07 00:33	68334-30-5	
n-Pentacosane (S)	56	%	50-135	1	09/07/07 00:00	09/12/07 00:33	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.7	1	08/31/07 15:11	09/04/07 20:21	8006-61-9	
4-Bromofluorobenzene (S)	81	%	50-135	1	08/31/07 15:11	09/04/07 20:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.6**	%	0.10	1		08/31/07 13:15		

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ANALYTICAL RESULTS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Sample: UST-11 **Lab ID: 922587020** Collected: 08/28/07 18:30 Received: 08/29/07 15:25 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel for ASE	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3545							
Diesel Components	ND	mg/kg	6.0	1	09/07/07 00:00	09/12/07 00:58	68334-30-5	
n-Pentacosane (S)	59	%	50-135	1	09/07/07 00:00	09/12/07 00:58	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.1	1	08/31/07 16:12	09/04/07 22:04	8006-61-9	
4-Bromofluorobenzene (S)	81	%	50-135	1	08/31/07 16:12	09/04/07 22:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.2**	%	0.10	1		08/31/07 16:47		

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: PMST/1056
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 922587011, 922587012

SAMPLE DUPLICATE: 9820

Parameter	Units	922521001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	16.5	.1	25	

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: PMST/1057
Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 922587001, 922587002, 922587003, 922587004, 922587005, 922587006, 922587007, 922587008, 922587009, 922587010

SAMPLE DUPLICATE: 9821

Parameter	Units	922510002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.3	18.0	2	25	

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: PMST/1058 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 922587013, 922587014, 922587015, 922587016, 922587017, 922587018, 922587019

SAMPLE DUPLICATE: 10334

Parameter	Units	922617005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	28.5	28.3	.5	25	

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: PMST/1060
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 922587020

SAMPLE DUPLICATE: 10537

Parameter	Units	922621001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.4	13.1	9	25	

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: GCV/1091 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 922587001, 922587002, 922587003, 922587004, 922587005, 922587006, 922587007, 922587008, 922587009, 922587010, 922587011, 922587012, 922587013, 922587014, 922587015, 922587016, 922587017, 922587018, 922587019

METHOD BLANK: 10733
Associated Lab Samples: 922587001, 922587002, 922587003, 922587004, 922587005, 922587006, 922587007, 922587008, 922587009, 922587010, 922587011, 922587012, 922587013, 922587014, 922587015, 922587016, 922587017, 922587018, 922587019

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	
4-Bromofluorobenzene (S)	%	91	50-135	

LABORATORY CONTROL SAMPLE: 10734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	25.2	101	70-150	
4-Bromofluorobenzene (S)	%			66	50-135	

MATRIX SPIKE SAMPLE: 10735

Parameter	Units	922510001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	94.4	26.1	125	116	70-148	
4-Bromofluorobenzene (S)	%				152	50-135	S2

SAMPLE DUPLICATE: 10736

Parameter	Units	922587001 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND	0	30	
4-Bromofluorobenzene (S)	%		91	54		

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: GCV/1094
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015 Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 922587020

METHOD BLANK: 10903
Associated Lab Samples: 922587020

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	
4-Bromofluorobenzene (S)	%	82	50-135	

LABORATORY CONTROL SAMPLE: 10904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	25	19.7	79	70-150	
4-Bromofluorobenzene (S)	%			80	50-135	

MATRIX SPIKE SAMPLE: 10905

Parameter	Units	922587020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	33.9	24.1	71	70-148	
4-Bromofluorobenzene (S)	%				79	50-135	

SAMPLE DUPLICATE: 10906

Parameter	Units	922677001 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND	0	30	
4-Bromofluorobenzene (S)	%		75	9		

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: OEXT/1182 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3545 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 922587001, 922587002, 922587003, 922587004, 922587005, 922587006, 922587007, 922587008, 922587009, 922587010, 922587011, 922587012, 922587013, 922587014, 922587015, 922587016

METHOD BLANK: 12352
Associated Lab Samples: 922587001, 922587002, 922587003, 922587004, 922587005, 922587006, 922587007, 922587008, 922587009, 922587010, 922587011, 922587012, 922587013, 922587014, 922587015, 922587016

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Diesel Components	mg/kg	ND	5.0	
n-Pentacosane (S)	%	101	50-135	

LABORATORY CONTROL SAMPLE: 12353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	167	108	65	50-114	
n-Pentacosane (S)	%			84	50-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12354 12355

Parameter	Units	922587003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Components	mg/kg	83.8	240	240	231	222	61	58	50-107	4	30	
n-Pentacosane (S)	%						104	98	50-135			

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QUALITY CONTROL DATA

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

QC Batch: OEXT/1193 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3545 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 922587017, 922587018, 922587019, 922587020

METHOD BLANK: 12918
Associated Lab Samples: 922587017, 922587018, 922587019, 922587020

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Diesel Components	mg/kg	ND	5.0	
n-Pentacosane (S)	%	65	50-135	

LABORATORY CONTROL SAMPLE: 12919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	167	113	68	50-114	
n-Pentacosane (S)	%			76	50-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12920 12921

Parameter	Units	922587017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Components	mg/kg	ND	204	204	115	109	57	54	50-107	5	30	
n-Pentacosane (S)	%						64	55	50-135			

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QUALIFIERS

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

ANALYTE QUALIFIERS

S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
1g	Surrogate recovery outside control limits due to matrix interferences.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
922587011	**UST-2**	ASTM D2974-87	PMST/1056		
922587012	**UST-3**	ASTM D2974-87	PMST/1056		
922587001	**D-1**	ASTM D2974-87	PMST/1057		
922587002	**D-2**	ASTM D2974-87	PMST/1057		
922587003	**D-3**	ASTM D2974-87	PMST/1057		
922587004	**D-4**	ASTM D2974-87	PMST/1057		
922587005	**D-5**	ASTM D2974-87	PMST/1057		
922587006	**PL-1**	ASTM D2974-87	PMST/1057		
922587007	**PL-2**	ASTM D2974-87	PMST/1057		
922587008	**PL-3**	ASTM D2974-87	PMST/1057		
922587009	**PL-4**	ASTM D2974-87	PMST/1057		
922587010	**UST-1**	ASTM D2974-87	PMST/1057		
922587013	**UST-4**	ASTM D2974-87	PMST/1058		
922587014	**UST-5**	ASTM D2974-87	PMST/1058		
922587015	**UST-6**	ASTM D2974-87	PMST/1058		
922587016	**UST-7**	ASTM D2974-87	PMST/1058		
922587017	**UST-8**	ASTM D2974-87	PMST/1058		
922587018	**UST-9**	ASTM D2974-87	PMST/1058		
922587019	**UST-10**	ASTM D2974-87	PMST/1058		
922587020	**UST-11**	ASTM D2974-87	PMST/1060		
922587001	**D-1**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587002	**D-2**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587003	**D-3**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587004	**D-4**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587005	**D-5**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587006	**PL-1**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587007	**PL-2**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587008	**PL-3**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587009	**PL-4**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587010	**UST-1**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587011	**UST-2**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587012	**UST-3**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587013	**UST-4**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587014	**UST-5**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587015	**UST-6**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587016	**UST-7**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587017	**UST-8**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587018	**UST-9**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587019	**UST-10**	EPA 5035A/5030B	GCV/1091	EPA 8015 Modified	GCV/1093
922587020	**UST-11**	EPA 5035A/5030B	GCV/1094	EPA 8015 Modified	GCV/1095
922587001	**D-1**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587002	**D-2**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587003	**D-3**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587004	**D-4**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587005	**D-5**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587006	**PL-1**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NCDOT-PALMER 101730 34380.1.1
Pace Project No.: 922587

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
922587007	**PL-2**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587008	**PL-3**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587009	**PL-4**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587010	**UST-1**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587011	**UST-2**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587012	**UST-3**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587013	**UST-4**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587014	**UST-5**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587015	**UST-6**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587016	**UST-7**	EPA 3545	OEXT/1182	EPA 8015 Modified	GCSV/1175
922587017	**UST-8**	EPA 3545	OEXT/1193	EPA 8015 Modified	GCSV/1187
922587018	**UST-9**	EPA 3545	OEXT/1193	EPA 8015 Modified	GCSV/1187
922587019	**UST-10**	EPA 3545	OEXT/1193	EPA 8015 Modified	GCSV/1187
922587020	**UST-11**	EPA 3545	OEXT/1193	EPA 8015 Modified	GCSV/1187

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1127236

Section A Required Client Information:

Company: EARTH TECH
Address: 701 Corporate Center Dr Ste 475 Raleigh NC 27607
Email To: MIKE.BRANSON@EARTHTECH.COM
Phone: 9198546238 Fax: 9198546259
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MIKE BRANSON
Copy To: NCDOT
Purchase Order No.:
Project Name: NCDOT - PALMER
Project Number: 101730

Section C Invoice Information:

Attention:
Company Name: NCDOT
Address:
Pace Quote Reference: WBS# 34380.1.1
Pace Project Manager: Reece
Pace Profile #: 11680-1

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DRO	GRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-1	SL		8/28/07	0900				4	2						2			✓	✓		922557 01
2	D-2	SL		8/28/07	1015				4	2						2			✓	✓		02
3	D-3	SL		8/28/07	1020				4	2						2			✓	✓		03
4	D-4	SL		8/28/07	1030				4	2						2			✓	✓		04
5	D-5	SL		8/28/07	1040				4	2						2			✓	✓		05
6	PL-1	SL		8/28/07	1300				4	2						2			✓	✓		06
7	PL-2	SL		8/28/07	1310				4	2						2			✓	✓		07
8	PL-3	SL		8/28/07	1320				4	2						2			✓	✓		08
9	PL-4	SL		8/28/07	1330				4	2						2			✓	✓		09
10	UST-1	SL		8/29/07	0930				4	2						2			✓	✓		10
11	UST-2	SL		8/28/07	0940				4	2						2			✓	✓		11
12	UST-3	SL		8/28/07	1130				4	2						2			✓	✓		12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	M Branson / Earth Tech	8/29/7	11:20	Rob Ampt / Pace	8/29/7	11:20				
	Rob Ampt / Pace	8/29/7	15:25	C. Wilson	8/29	15:25	5.8	4	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M BRANSON
SIGNATURE of SAMPLER: M Branson
DATE Signed (MM/DD/YY): 8/29/07

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

1127237

Section A Required Client Information:

Company: EARTH TECH
Address: 701 Corporate Center Dr Ste 475 Raleigh NC 27607
Email To: Mike.Branson@EARTHTECH.com
Phone: 9198546238 Fax: 9198546259
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MIKE BRANSON
Copy To: NCDOT
Purchase Order No.:
Project Name: NCDOT – PACMOX
Project Number: 101730

Section C Invoice Information:

Attention:
Company Name: NCDOT
Address:
Pace Quote Reference: CUBS# 34380, 1.1
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: DRO	GRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	UST-4	SL		8/28/07	1140				4	2						2			✓	✓			13
2	UST-5	SL		8/28/07	1520				4	2						2			✓	✓			14
3	UST-6	SL		8/28/07	1530				4	2						2			✓	✓			15
4	UST-7	SL		8/28/07	1540				4	2						2			✓	✓			16
5	UST-8	SL		8/28/07	1800				4	2						2			✓	✓			17
6	UST-9	SL		8/28/07	1810				4	2						2			✓	✓			18
7	UST-10	SL		8/28/07	1820				4	2						2			✓	✓			19
8	UST-11	SL		8/28/07	1830				4	2						2			✓	✓			20
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	M Branson / Earth Tech	8/29/7	11:20	R Knight / Pace	8/29/7	11:20				
	R Knight / Pace	8/29/7	15:25	C. Weeden	8/29	15:25	5.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M Branson

SIGNATURE of SAMPLER: M Branson

DATE Signed (MM/DD/YY): 8/29/07

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX G
Photographs of Closure Activities

PHOTO 1 - DISPENSER/PRODUCT LINE AREA

PHOTO 2 - UST AREA PRIOR TO EXCAVATION

PHOTO 3 - 4,000-GALLON UST OUT OF THE GROUND

PHOTO 4 - 8,000-GALLON UST DEMOLISHED IN-PLACE

PHOTO 5 - 10,000-GALLON UST UNCOVERED

PHOTO 6 - 10,000-GALLON UST OUT OF THE GROUND

PHOTO 7 - 15,000-GALLON UST UNCOVERED

PHOTO 8 - 15,000-GALLON UST PARTIALLY DEMOLISHED

PHOTO 9 - 15,000-GALLON UST DEMOLISHED