June 26, 2006

Mr. Cyrus Parker, P.E., L.G.
North Carolina Department of Transportation
Geotechnical Unit
1020 Birch Ridge Drive, Bldg D
Raleigh, NC 27610

Re: Preliminary Site Assessment Reports

1. Parcel # 3 ~ BEBCO LLC Property
2. Parcel # 10 ~ All Points Trucking Inc.
3. Parcel # 19 ~ HH Downs LLC Property (Formerly Known as the Billy Stegall Jr. Property)
4. Parcel # 22 ~ Gerald Rhyne Property.

WBS Element: **34948.1.1**
State Project: **U-3447**
County: **Mecklenburg**
AMEC Project: **693003447**

2005 CONTRACT

Dear Mr. Parker:

AMEC Earth & Environmental, Inc. of North Carolina (AMEC) is pleased to furnish the North Carolina Department of Transportation (NCDOT) with four copies of the above referenced reports. We will deliver digital copies of these reports after your review.

If you have any comments or questions concerning these reports, please do not hesitate to call me at 704.875-3570.

Regards,
AMEC Earth & Environmental, Inc. of North Carolina

Helen Corley

Helen Corley, L.G.
Program Manager

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Preliminary Site Assessment

All Points Trucking, Inc., Parcel #10
Mecklenburg County, North Carolina

NCDOT State Project: 34948.1.1 (U-3447)
AMEC Project: 693003447

July 26, 2006

Prepared for:

North Carolina Department of Transportation
Geotechnical Unit
1020 Birch Ridge Drive
Raleigh, NC 27610
Telephone: 919-250-4088

Prepared By:

AMEC Earth and Environmental, Inc. of North Carolina
9800 West Kincey Avenue, Suite 190
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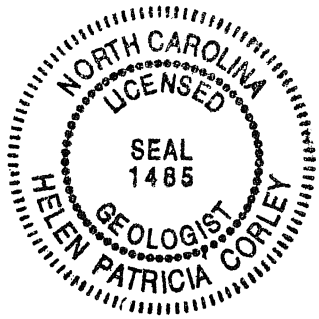

Helen Corley

Helen P. Corley, L.G.
Senior Geologist/Project Manager

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1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Notice to Proceed dated May 26, 2006, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for portions of the All Points Trucking Property (Parcel # 10) to be acquired for drainage improvements along Downs Circle. The property is located at 12708 Downs Circle, Pineville, Mecklenburg County, North Carolina. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated May 22, 2006.

NCDOT contracted AMEC to perform a PSA on the All Points Trucking Property due to usage of the property. The property is used as a large truck maintenance shop. The PSA was performed to determine if soils have been impacted by petroleum compounds as a result of past or present uses of the property locate within the proposed right-of-way (ROW) and along the drainage easement. The investigation was specifically completed to determine the presence or absence of petroleum hydrocarbons along the proposed drain line and drainage ditch areas.

The following report describes our field investigations and results of chemical analyses. It includes the evaluation of the analytical data with regards to the presence or absence of soil contamination within the existing right-of-way (ROW) and estimates the extent of soil contamination.

1.1 Site Location

The All Points Trucking Property is located on the south side of Downs Circle immediately southeast of the end of Downs Road in Pineville, Mecklenburg County, North Carolina. It is located within the Piedmont physiographic province of south-central North Carolina.

Figure 1 shows the site location and vicinity.

1.2 Site Description

The site is approximately a 0.77 acre parcel. A single story metal workshop occupies the site. Present at the site are roll off dumpsters used for scrap metal storage, several above ground storage tanks (ASTs) and miscellaneous scrap material from large truck repair operations.

The proposed drainage improvements traverse the full length of the Parcel #10 road frontage (180 feet) on Downs Circle Road as well as along 190 ft of the property boundary between Parcel #10 and the neighboring sod business, Parcel #9. The soil borings approximated the proposed drainage line and drainage ditch as closely as possible without impacting subsurface utilities. Areas inaccessible to the direct push rig were sampled using a hand auger. Future catch basin and drop inlet locations were also specifically targeted.

The area of the proposed drainage improvements along the property contact of Parcels #10 and #9 were accessed from Parcel #9. The ditch is functioning as a small stream as evidenced by the abundance of small fish. All of the ditch samples were hand auger borings located across the stream, closer to Parcel #10 thus more closely targeting the center of the upcoming drainage construction.

Near the southern (downstream) limit of the upcoming drainage activity an AST (250 gallon) located on Parcel #10 was present and sampling was conducted in close proximity to the AST. Petroleum odors that were present in the area may have originated from the AST fill port/vent pipe. The AST appeared to contain diesel fuel. Sample locations and the site layout are shown in Figure 2. A photographic log of the site details is included as Appendix 1.

Adjacent properties across Downs Circle and Downs Road to the west and northwest are residential; the remaining adjacent properties are all commercial.

2.0 GEOLOGY

2.1 Regional Geology

The All Points Trucking Property is located in the Charlotte Belt of the Piedmont physiographic province of south central North Carolina. The Charlotte Belt is a complex series of Paleozoic metamorphic and igneous rocks consisting of metamorphosed granites, metagabbros and diorites, mafic and felsic metavolcanics, and granitic-to-mafic intrusive bodies.

2.2 Site Geology

Site geology was observed through the sampling of 18 hand auger and direct push probe borings. Borings extended to total depths ranging from 1 to 3 feet below ground surface (bgs). Soils generally consisted of a surfical fill of gravel with fines underlain by fill and/or saprolite. The saprolite consisted of a clayey sandy silt, orangish brown and light brown. Gabbro appears to be the bedrock underlying the site. Boring logs are presented in Appendix 2.

Saturated conditions (ground water) were encountered in the eight borings (P10-2 through P10-9) located in close proximity to the ditch. The soils were commonly saturated at a depth of 1 foot bgs. The stream flows southeast from the site and the local topography suggests that ground-water flow would also be to the southeast in the site vicinity.

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field activities at the site, several tasks were accomplished in preparation for the subsurface investigation. The Health and Safety Plan (HSP) was modified to include the site-specific health and safety information necessary for the field activities. North Carolina-1-Call was contacted to facilitate the location of underground utilities in the vicinity of selected boring locations. Environmental Drilling and Probing Services of Charlotte, NC (EDPS) was retained by AMEC to perform the direct push sampling. Pace Laboratories, Inc. was contacted for acquisition of sample bottles. Upon arrival at the site there was concern that some of the subsurface utilities had not been marked due to the presence of telephone risers without any markings. North Carolina-1-Call was again contacted and personnel were immediately dispatched to mark the conflicting utilities. The utilities were marked and the subsurface investigation was conducted without incident.

3.2 Site Reconnaissance

AMEC personnel completed site reconnaissance on May 11th and 18th, 2006. The area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the upcoming subsurface investigation.

3.3 Well Survey

No well survey was performed as part of this PSA and no water supply wells were observed by AMEC on the site. A water meter from the municipal water supply was observed on the property.

3.4 Soil Sampling

Nine hand auger soil borings were conducted perpendicular to Downs Circle along the Parcel #10 and Parcel #9 boundary within the drainage easement along the small stream at an approximate spacing of 20ft on May 30, 2006. These samples were used to target the future ditch line location as closely as possible. The southern most boring, P10-1, was also located approximately 3ft from a 250 gallon AST. The northern most boring, P10-9, was located upgradient of the proposed stormwater outfall to the ditch at the future location

of a junction box/drop inlet. The borings were completed to depths ranging from 1ft to 2ft bgs. The total depth of each boring represents the refusal depth and is the assumed depth to competent bedrock.

Nine additional borings were located within the ROW parallel to Downs Circle on May 31, 2006. These borings were also spaced approximately 20ft apart and were terminated at a depth of 3ft bgs due to the presence of a sanitary sewer line approximately 4.5ft bgs. These borings also targeted areas where proposed drainage construction will occur.

The sample locations are shown on Figure 2.

No evidence of potential soil contamination was identified by field observations (i.e. petroleum odors, petroleum staining, PID response) in any of the borings. PID screening results are incorporated in Table 1 and on the boring logs included as Appendix 2. No ground-water samples were collected.

Soil samples were collected in accordance with EPA protocols in laboratory-supplied containers. The soil samples for GRO analysis were collected using the 5030 prep method with methanol preservation. Samples for DRO analysis were collected in 4oz. glass containers. Once placed in the containers, the samples were labeled with the sample number, time of collection, date of collection, name of the collector, and the requested analysis. The samples were packed on ice, and then hand delivered to Pace Analytical, a North Carolina Certified Laboratory following proper chain-of-custody procedures.

All equipment used for obtaining samples was decontaminated in accordance with EPA protocols. This included steam cleaning for the direct push equipment and the following for sampling tools:

- equipment thoroughly cleaned with a phosphorous-free detergent;
- rinsed with tap water;
- rinsed with methanol; and,
- rinsed with de-ionized water.

4.0 RESULTS

4.1 Soil Sampling Results

AMEC conducted soil sampling at the All Points Trucking Property (Parcel # 10) on May 30, and 31, 2006. The purpose of the sampling was to determine if releases of petroleum hydrocarbons had occurred, and if so, to estimate the volume of soil that might require special handling during construction activities. The sampling was accomplished using direct push and hand auger methods accompanied by field screening for organic vapors with a PID.

One soil sample was collected from each of the eighteen soil borings. No measurable PID responses, petroleum odors, or petroleum staining were observed in any of the soil borings. Laboratory analyses did not indicate detectable concentrations of GRO in any of the samples. Analyses of soil samples for DRO indicated a detectable concentration in the 5 of the 9 samples collected along the ditch along the Parcel #10 and Parcel #9 boundary. The reported DRO concentrations ranged from 7.6 to 55 mg/kg and the contaminant distribution does not appear to be isolated to a single area. Three of the reported concentrations exceeded the 10 mg/kg NCDENR Initial Action Level for petroleum fuel compounds. Sample P10-1 that was placed beside the 250 gallon AST and was the most downgradient sample along the ditch, did not have any analytical detections.

There were no analytical detections in any of the nine borings parallel to Downs Circle.

No samples were submitted for VOC or SVOC analyses because there were no field indicators of petroleum contaminants.

Results of chemical analyses of soil samples are summarized in Table 1, with detections also posted on Figure 2. Copies of the original laboratory report and chain-of-custody documentation are included as Appendix 2.

4.2 Extent of Impacted Soils

This investigation and analytical program were implemented to determine the presence or absence of petroleum hydrocarbons and, if possible, to estimate the volume of impacted soil present within the Right-of-Way/Easement study area. For the purposes of this PSA it

was assumed that soil excavation activities will extend to the top of competent rock. The average depth to rock, as defined by auger refusal, is approximately 1.5ft bgs in the area of DRO impacted soil.

DRO was reported in five borings along the drainage ditch. Three of the samples had concentrations exceeding the 40mg/kg NCDENR Action Level for DRO. Based upon the location of the soil borings and the widespread distribution of DRO down the ditch in the proposed study area, AMEC estimates that 180 cubic yards of soil may require special handling if disturbed during construction. The area of potentially petroleum-impacted soil is shown on Figure 2.

5.0 CONCLUSIONS

The following conclusions are based upon AMEC's evaluation of field observations and laboratory analyses of samples collected from the site on May 30-31, 2006.

- The commercial building at the All Points Trucking Property, Parcel #10 is occupied by a large truck service center.
- No field indicators of petroleum contaminants were observed in samples collected for this investigation.
- Laboratory analyses of soil samples indicated no detectable levels of GRO in any of the nine samples.
- Laboratory analyses of soil samples indicated DRO detections ranging from 7.6 to 55 mg/kg in 5 of the 18 boring locations.
- All of the DRO detections were associated with the drainage ditch/stream area and were collected from approximately 1ft bgs.
- The DRO contaminant appears to have been transported and distributed down the ditch/stream from Downs Circle Road or across the road.
- Approximately 180 cubic yards of petroleum-contaminated soil is potentially present within the ditch/stream area.

6.0 RECOMMENDATIONS

If NCDOT excavates soil in the contaminated area, AMEC recommends the following action:

- Segregation during soil excavation then proper disposal of potentially petroleum-impacted soil from the proposed drainage improvement during construction operations.

CONCEPTUAL DESIGN REPORT

I. General Information

1. Conceptual Design Plan

A. North Cross Shopping Center

B. Carolina Medical Center

C. Birkdale

D. Monteith

2. Engineering Calculations

3. Water Quality and H&H Analysis

4. Analysis Matrix & BMP Selection

TABLES

Table 1
Gasoline and Diesel Range Organic Analytical Results in Soil Samples
NCDOT Parcel #10
All Points Trucking Inc. Property
Pineville, North Carolina

Sample ID	Sample Date	Sample Depth (feet bgs)	Field Screening (ppm)	Soils	
				GRO (mg/kg)	DRO (mg/kg)
NC Action Levels				10	40
P10-1	05/30/2006	0-1.5	0	BQL (4.9)	BQL (6.4)
P10-2	05/30/2006	0-1	0	BQL (6.9)	47.
P10-3	05/30/2006	0-1	0	BQL (7.6)	BQL (8.5)
P10-4	05/30/2006	0.5-1.5	0	BQL (5.2)	BQL (5.9)
P10-5	05/30/2006	0-1	0	BQL (6.2)	49.
P10-6	05/30/2006	0-1	0	BQL (6.2)	7.6
P10-7	05/30/2006	0-1	0	BQL (5.9)	BQL (30)
P10-8	05/30/2006	1-1.5	0	BQL (4.9)	55.
P10-9	05/30/2006	0.5-1	0	BQL (5.1)	9.7
P10-10	05/31/2006	1-3	0	BQL (4.9)	BQL (6.2)
P10-11	05/31/2006	1-3	0	BQL (5.2)	BQL (6.3)
P10-12	05/31/2006	1-3	0	BQL (4.7)	BQL (6.5)
P10-13	05/31/2006	1-3	0	BQL (4.9)	BQL (6.4)
P10-14	05/31/2006	1-3	0	BQL (5.1)	BQL (6.8)
P10-15	05/31/2006	1-3	0	BQL (4.7)	BQL (5.9)
P10-16	05/31/2006	1-3	0	BQL (5.1)	BQL (6.7)
P10-17	05/31/2006	1-3	0	BQL (4.5)	BQL (6.4)
P10-18	05/31/2006	1-3	0	BQL (4.6)	BQL (5.8)

NOTES:
bgs = below ground surface
GRO = Gasoline Range Organics by Method 5035
DRO = Diesel Range Organics by Method 3550
BQL = analyte not detected above quantitation limit shown in ( )
Standards derived from the North Carolina Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater

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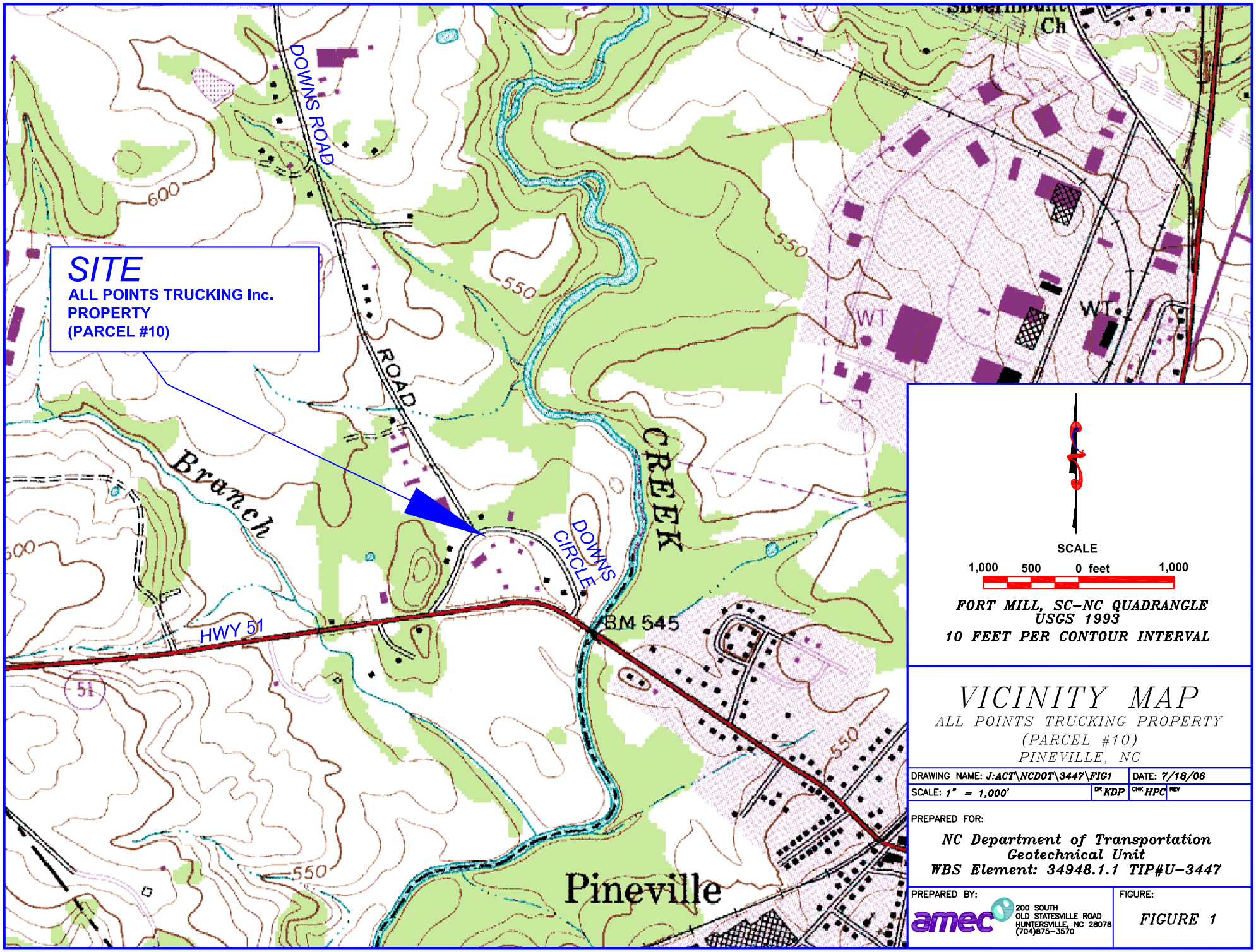
FIGURES



VICINITY MAP

ALL POINTS TRUCKING PROPERTY
(PARCEL #10)
PINEVILLE, NC

DRAWING NAME: J:ACT\NCDOT\3447\FIG1			DATE: 7/18/06
SCALE: 1" = 1,000'	DR KDP	CHK HPC	REV

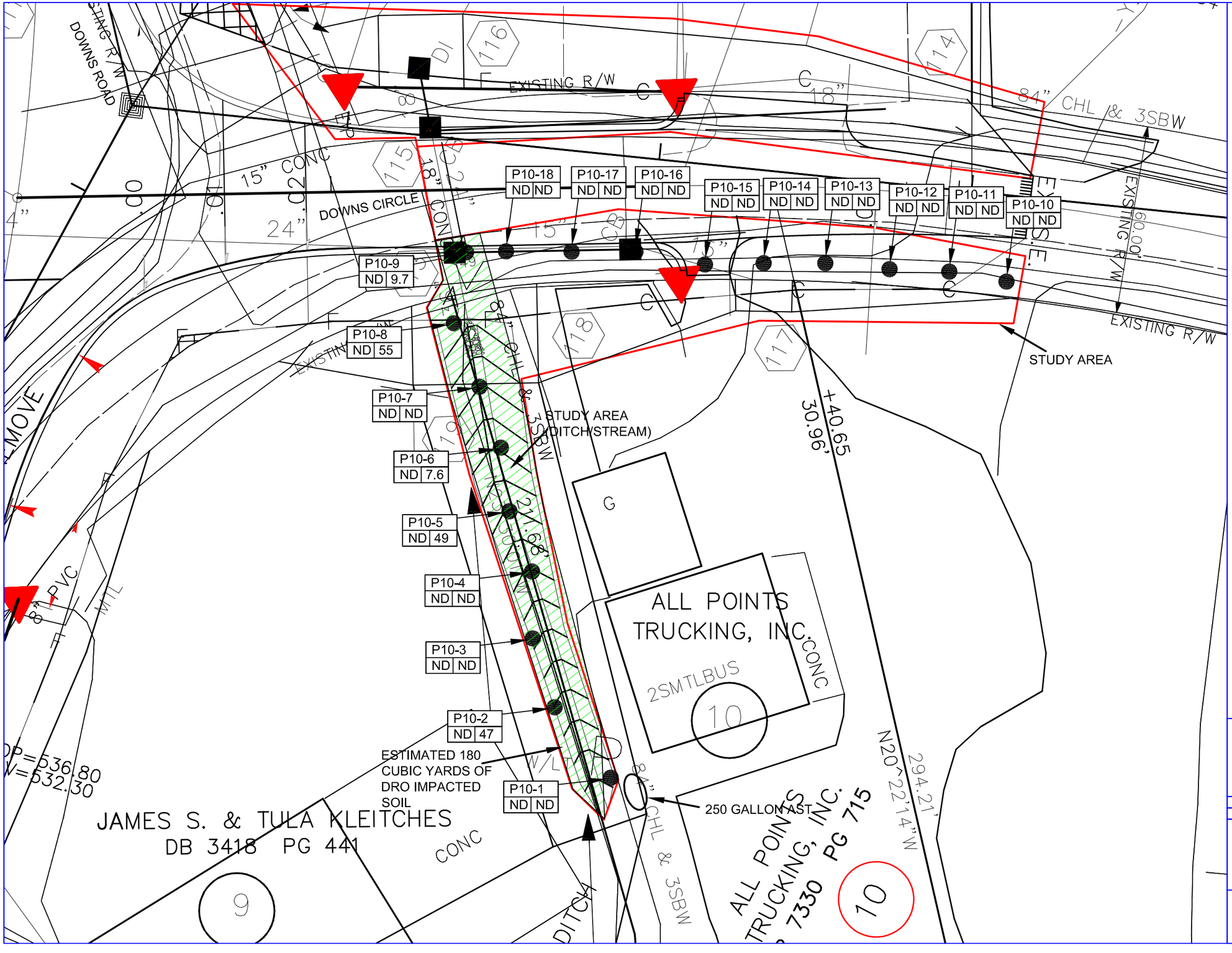
PREPARED FOR:

NC Department of Transportation
Geotechnical Unit
WBS Element: 34948.1.1 TIP#U-3447

PREPARED BY:
amec
200 SOUTH
OLD STATESVILLE ROAD
HUNTERSVILLE, NC 28078
(704)875-3570

FIGURE:

FIGURE 1



LEGEND

AREA OF INVESTIGATION

SOIL BORING LOCATION

SOIL BORING IDENTIFICATION

P3-8
ND ND

GASOLINE RANGE ORGANICS (GRO) IN MILLIGRAMS PER KILOGRAM

DIESEL RANGE ORGANICS (DRO) IN MILLIGRAMS PER KILOGRAM

ESTIMATED AREA OF IMPACTED SOIL

0' 15' 30' 45'

1" = 30'

SITE MAP WITH ANALYTICAL DETECTIONS IN SOIL SAMPLES ALL POINTS TRUCKING, INC. PARCEL #10

DRAWING NAME: J:\ACT..NCDOT..05..3447	DATE: 5/18/06
SCALE: 1"=30"	DR TLH CHK HPC REV 5/18/06

PREPARED FOR:
NC Department of Transportation
Geotechnical Unit
WBS Element: 34948.1.1

PREPARED BY:
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(704)875-3570

FIGURE:
FIGURE 2

APPENDIX 1

SITE PHOTOGRAPHS

Photo Log

Photo No. 1	Date: 5/11/06
Direction Photo Taken: Southeast	
Description: Ditch/stream between Parcel #10 and Parcel #9	

Photo No. 2	Date: 5/11/06
Direction Photo Taken: East	
Description: Area of site along Downs Circle	

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Photo No. 3	Date: 5/11/06
Direction Photo Taken: West	
Description: Area of site along Downs Circle	

Photo No. 4	Date: 5/11/06
Direction Photo Taken: North	
Description: 250 gallon AST at the southern end of the drainage easement	

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APPENDIX 2

BORING LOGS

Project Name: NCDOT Pineville PSAs

Project Number: 6-9300-3447

Drilling Company: EDPS

Driller: Tommy Bolyard

Drilling Method: Hand Auger

BORING NO: P 10-1

Project Location: Pineville, NC

Date: 5/30/2006

Geologist: Kelly D. Phillips

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Gravelly Silt	ML	0		
				0		
		REFUSAL AT 1.5'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 3-1/2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

Project Number: 6-9300-3447

Drilling Company: EDPS

Driller: Tommy Bolyard

Drilling Method: Hand Auger

BORING NO: P 10-2

Project Location: Pineville, NC

Date: 5/30/2006

Geologist: Kelly D. Phillips

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Clayey Silt Greenish-grey and brown mottled, wet	ML	0		Wet
		REFUSAL IN ROCK AT 1'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 3-1/2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-3

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Hand Auger

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Clayey Silt Greenish-grey and brown mottled, wet	ML	0 0		Wet
2.0		**REFUSAL IN ROCK AT 2'**				
4.0						
6.0						
8.0						

Hole Size: 3-1/2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-4

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Hand Auger

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Clayey Silt with Gravel Greenish-grey and brown mottled, wet	ML	0		
		SAPROLITE **Sandy Silt** Orangish-brown and grey	MH	0		
		REFUSAL AT 1.5'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 3-1/2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-5

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Silt Brown; wet at 1.2'	ML	0 0		Wet at 1.2'
		REFUSAL AT 1.5'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-6

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Silt Greenish-grey and brown mottled, wet at 0.2'	ML	0		Wet at 0.2'
		REFUSAL AT 1.5'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

Project Number: 6-9300-3447

Drilling Company: EDPS

Driller: Tommy Bolyard

Drilling Method: Direct Push Macrocore

BORING NO: P 10-7

Project Location: Pineville, NC

Date: 5/30/2006

Geologist: Kelly D. Phillips

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Silt Greenish-grey and brown mottled, wet	ML	0		Wet
		REFUSAL IN ROCK AT 1'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-8

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Silt Brown; wet at 1.2'	ML	0 0		Wet at 1.2'
		REFUSAL AT 1.5'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-9

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Sandy Clayey Silt Greenish-grey and brown mottled, wet	ML	0		Wet
		REFUSAL IN ROCK AT 1'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-10

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt** Brown with localized areas of gravel	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0				0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

AMEC Earth & Environmental, Inc.
9800 West Kincey Ave, Suite 190
Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 10-11

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt** Brown with localized areas of gravel	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0				0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-12

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt** Brown with localized areas of gravel	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0		**SAPROLITE** **Clayey Silt** Orangish-brown and light brown	ML	0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-13

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt** Brown with localized areas of gravel	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0				0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-14

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt** Brown with localized areas of gravel	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0				0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-15

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
		Asphalt				
		Gravel with fines	GM	0		
		FILL **Clayey Silt** Brown				
2.0			ML	0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-16

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt** Brown with localized areas of gravel	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0						
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-17

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
		FILL **Clayey Silt with Sand** Brown	ML	0		
2.0		**SAPROLITE** **Clayey Silt** Orangish-brown and light brown	ML	0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 10-18

Project Number: 6-9300-3447

Project Location: Pineville, NC

Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Hand Auger

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		FILL **Clayey Silt with Sand** Brown	ML	0		Limited probes to 3' maximum depth due to the presence of a sanitary sewer pipe at 4' bgs
2.0		**SAPROLITE** **Clayey Silt** Orangish-brown and light brown	ML	0		
		TERMINATION AT 3'				
4.0						
6.0						
8.0						

Hole Size: 3-1/2"

AMEC Earth & Environmental, Inc.
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APPENDIX 3

LABORATORY ANALYTICAL REPORTS
&
CHAIN-OF-CUSTODY

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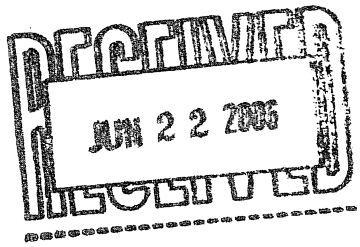

June 14, 2006

Ms. Helen Corley
AMEC
9800 West Kincey Ave
Suite 190
Huntersville, NC 28078

RE: Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Dear Ms. Corley:

Enclosed are the analytical results for sample(s) received by the laboratory May 30, 2006through May 31, 2006 Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

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

Sincerely,

Richard Swartz
richard.swartz@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Solid results are reported on a dry weight basis

Lab Sample No: 927037705 Project Sample Number: 92120290-001 Date Collected: 05/30/06 11:15
Client Sample ID: P10-1 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	21.7	%		05/31/06 08:14	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	06/10/06 08:06	KBS	68334-30-5		
n-Pentacosane (S)	51	%		06/10/06 08:06	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.9	06/09/06 00:36	DHW			
4-Bromofluorobenzene (S)	81	%		06/09/06 00:36	DHW	460-00-4		

Date: 06/14/06

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037713 Project Sample Number: 92120290-002 Date Collected: 05/30/06 12:45
Client Sample ID: P10-2 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	36.5	%		05/31/06 17:08	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	47.	mg/kg	7.9	06/10/06 09:23	KBS	68334-30-5		
n-Pentacosane (S)	51	%		06/10/06 09:23	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.9	06/09/06 01:04	DHW			
4-Bromofluorobenzene (S)	72	%		06/09/06 01:04	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037721 Project Sample Number: 92120290-003 Date Collected: 05/30/06 13:00
Client Sample ID: P10-3 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	41.5	%		05/31/06 17:08	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	8.5	06/13/06 13:44	KBS	68334-30-5		
n-Pentacosane (S)	80	%		06/13/06 13:44	KBS	629-99-2		
Date Extracted	06/12/06			06/12/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	7.6	06/09/06 02:31	DHW			
4-Bromofluorobenzene (S)	84	%		06/09/06 02:31	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037739 Project Sample Number: 92120290-004 Date Collected: 05/30/06 13:15
Client Sample ID: P10-4 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	15.9	%		05/31/06 17:08	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.9	06/10/06 08:45	KBS	68334-30-5		
n-Pentacosane (S)	55	%		06/10/06 08:45	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.2	06/09/06 02:59	DHW			
4-Bromofluorobenzene (S)	50	%		06/09/06 02:59	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037747 Project Sample Number: 92120290-005 Date Collected: 05/30/06 13:20
Client Sample ID: P10-5 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	18.0	%		05/31/06 17:08	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	49.	mg/kg	30.	06/10/06 11:20	KBS	68334-30-5	1	
n-Pentacosane (S)	143	%		06/10/06 11:20	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.2	06/09/06 03:28	DHW			
4-Bromofluorobenzene (S)	64	%		06/09/06 03:28	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037754 Project Sample Number: 92120290-006 Date Collected: 05/30/06 13:30
Client Sample ID: P10-6 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	31.5	%		05/31/06 17:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	7.6	mg/kg	7.3	06/10/06 10:41	KBS	68334-30-5		
n-Pentacosane (S)	22	%		06/10/06 10:41	KBS	629-99-2	2	
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	6.2	06/09/06 03:57	DHW			
4-Bromofluorobenzene (S)	79	%		06/09/06 03:57	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037762 Project Sample Number: 92120290-007 Date Collected: 05/30/06 13:40
Client Sample ID: P10-7 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	16.5	%		05/31/06 17:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	30.	06/10/06 10:41	KBS	68334-30-5	1	
n-Pentacosane (S)	231	%		06/10/06 10:41	KBS	629-99-2	3	
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.9	06/09/06 04:26	DHW			
4-Bromofluorobenzene (S)	65	%		06/09/06 04:26	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037770 Project Sample Number: 92120290-008 Date Collected: 05/30/06 13:50
Client Sample ID: P10-8 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	10.6	%		05/31/06 17:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	55.	mg/kg	28.	06/10/06 11:20	KBS	68334-30-5	1	
n-Pentacosane (S)	106	%		06/10/06 11:20	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.9	06/09/06 04:54	DHW			
4-Bromofluorobenzene (S)	64	%		06/09/06 04:54	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927037788 Project Sample Number: 92120290-009 Date Collected: 05/30/06 14:00
Client Sample ID: P10-9 Matrix: Soil Date Received: 05/30/06 17:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	25.7	%		05/31/06 17:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	9.7	mg/kg	6.7	06/10/06 08:06	KBS	68334-30-5		
n-Pentacosane (S)	52	%		06/10/06 08:06	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.1	06/09/06 05:23	DHW			
4-Bromofluorobenzene (S)	65	%		06/09/06 05:23	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042093 Project Sample Number: 92120290-010 Date Collected: 05/31/06 09:30
Client Sample ID: P10-10 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	18.8	%		06/01/06 10:08	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.2	06/10/06 07:27	KBS	68334-30-5		
n-Pentacosane (S)	54	%		06/10/06 07:27	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.9	06/09/06 22:35	DHW			
4-Bromofluorobenzene (S)	80	%		06/09/06 22:35	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042101 Project Sample Number: 92120290-011 Date Collected: 05/31/06 09:40
Client Sample ID: P10-11 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	20.3	%		06/01/06 10:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.3	06/10/06 05:32	KBS	68334-30-5		
n-Pentacosane (S)	55	%		06/10/06 05:32	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.2	06/10/06 00:59	DHW			
4-Bromofluorobenzene (S)	99	%		06/10/06 00:59	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042119 Project Sample Number: 92120290-012 Date Collected: 05/31/06 09:50
Client Sample ID: P10-12 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	23.2	%		06/01/06 10:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.5	06/13/06 14:27	KBS	68334-30-5		
n-Pentacosane (S)	59	%		06/13/06 14:27	KBS	629-99-2		
Date Extracted	06/12/06			06/12/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.7	06/10/06 01:28	DHW			
4-Bromofluorobenzene (S)	86	%		06/10/06 01:28	DHW	460-00-4		

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Fax: 828.252.4618

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042127 Project Sample Number: 92120290-013 Date Collected: 05/31/06 09:55
Client Sample ID: P10-13 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	22.2	%		06/01/06 10:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	06/10/06 06:10	KBS	68334-30-5		
n-Pentacosane (S)	66	%		06/10/06 06:10	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.9	06/10/06 01:57	DHW			
4-Bromofluorobenzene (S)	79	%		06/10/06 01:57	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042135 Project Sample Number: 92120290-014 Date Collected: 05/31/06 10:00
Client Sample ID: P10-14 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	26.6	%		06/01/06 10:09	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.8	06/13/06 15:26	KBS	68334-30-5		
n-Pentacosane (S)	78	%		06/13/06 15:26	KBS	629-99-2		
Date Extracted	06/12/06			06/12/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.1	06/10/06 02:26	DHW			
4-Bromofluorobenzene (S)	82	%		06/10/06 02:26	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042143 Project Sample Number: 92120290-015 Date Collected: 05/31/06 10:05
Client Sample ID: P10-15 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	15.6	%		06/01/06 10:10	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.9	06/10/06 06:49	KBS	68334-30-5		
n-Pentacosane (S)	70	%		06/10/06 06:49	KBS	629-99-2		
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.7	06/10/06 02:55	DHW			
4-Bromofluorobenzene (S)	81	%		06/10/06 02:55	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042150 Project Sample Number: 92120290-016 Date Collected: 05/31/06 10:15
Client Sample ID: P10-16 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	25.6	%		06/01/06 10:10	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.7	06/09/06 22:28	KBS	68334-30-5		
n-Pentacosane (S)	29	%		06/09/06 22:28	KBS	629-99-2	2	
Date Extracted	06/08/06			06/08/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.1	06/10/06 03:23	DHW			
4-Bromofluorobenzene (S)	80	%		06/10/06 03:23	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042168 Project Sample Number: 92120290-017 Date Collected: 05/31/06 10:20
Client Sample ID: P10-17 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	22.0	%		06/01/06 10:11	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	06/10/06 01:40	KBS	68334-30-5		
n-Pentacosane (S)	51	%		06/10/06 01:40	KBS	629-99-2		
Date Extracted	06/08/06			06/08/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.5	06/10/06 03:52	DHW			
4-Bromofluorobenzene (S)	79	%		06/10/06 03:52	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

Lab Sample No: 927042176 Project Sample Number: 92120290-018 Date Collected: 05/31/06 10:40
Client Sample ID: P10-18 Matrix: Soil Date Received: 05/31/06 17:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Percent Moisture	Method: % Moisture							
Percent Moisture	13.7	%		06/01/06 10:11	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.8	06/10/06 00:23	KBS	68334-30-5		
n-Pentacosane (S)	57	%		06/10/06 00:23	KBS	629-99-2		
Date Extracted	06/08/06			06/08/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.6	06/10/06 04:21	DHW			
4-Bromofluorobenzene (S)	80	%		06/10/06 04:21	DHW	460-00-4		

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	The sample extract could not be concentrated to the normal final volume. This resulted in an elevated reporting limit.
[2]	Low surrogate recovery was confirmed as a matrix effect by a second analysis.
[3]	The surrogate recovery was outside QC acceptance limits due to matrix interference.

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 159166 Analysis Method: EPA 8015
QC Batch Method: EPA 3545 Analysis Description: TPH in Soil by 3545/8015
Associated Lab Samples: 927037705 927037713 927037721 927037739 927037747 927037754 927037762 927037770 927037788 927042093 927042101 927042119 927042127 927042135 927042143

METHOD BLANK: 927065847
Associated Lab Samples: 927037705 927037713 927037721 927037739 927037747 927037754 927037762 927037770 927037788 927042093 927042101 927042119 927042127 927042135 927042143

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	61		

LABORATORY CONTROL SAMPLE: 927065854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Fuel	mg/kg	166.70	93.84	56	
n-Pentacosane (S)				71	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927065862 927065870

Parameter	Units	927037705 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Diesel Fuel	mg/kg	1.202	212.90	132.1	201.4	62	94	42	1
n-Pentacosane (S)						76	111		

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 159210 Analysis Method: EPA 8015
QC Batch Method: EPA 3545 Analysis Description: TPH in Soil by 3545/8015
Associated Lab Samples: 927042150 927042168 927042176

METHOD BLANK: 927067546
Associated Lab Samples: 927042150 927042168 927042176

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	50		

LABORATORY CONTROL SAMPLE: 927067553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Fuel	mg/kg	166.70	97.14	58	
n-Pentacosane (S)				63	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927067561 927067579

Parameter	Units	927042259 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Diesel Fuel	mg/kg	1.213	219.00	116.4	110.2	53	50	6	
n-Pentacosane (S)						57	53		

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 159259 Analysis Method: EPA 8015
QC Batch Method: EPA 8015 Analysis Description: GAS, Soil, North Carolina
Associated Lab Samples: 927037705 927037713 927037721 927037739 927037747 927037754 927037762 927037770 927037788

METHOD BLANK: 927070789
Associated Lab Samples: 927037705 927037713 927037721 927037739 927037747 927037754 927037762 927037770 927037788

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	88		

LABORATORY CONTROL SAMPLE: 927070797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Gasoline	mg/kg	25.00	26.20	105	
4-Bromofluorobenzene (S)				86	

MATRIX SPIKE: 927070805

Parameter	Units	927037622 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Gasoline	mg/kg	0.3917	21.88	23.64	106	
4-Bromofluorobenzene (S)					97	

SAMPLE DUPLICATE: 927070813

Parameter	Units	927037630 Result	DUP Result	RPD	Footnotes
Gasoline	mg/kg	ND	ND	NC	
4-Bromofluorobenzene (S)	%	84	82		

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 159354 Analysis Method: EPA 8015
QC Batch Method: EPA 8015 Analysis Description: GAS, Soil, North Carolina
Associated Lab Samples: 927042093 927042101 927042119 927042127 927042135 927042143 927042150 927042168 927042176

METHOD BLANK: 927073627
Associated Lab Samples: 927042093 927042101 927042119 927042127 927042135 927042143 927042150 927042168 927042176

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	84		

LABORATORY CONTROL SAMPLE: 927073635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Gasoline	mg/kg	25.00	25.00	100	
4-Bromofluorobenzene (S)				90	

MATRIX SPIKE: 927073643

Parameter	Units	927069955 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Gasoline	mg/kg	0.2360	12.06	12.49	102	
4-Bromofluorobenzene (S)					94	

SAMPLE DUPLICATE: 927073650

Parameter	Units	927070136 Result	DUP Result	RPD	Footnotes
Gasoline	mg/kg	ND	ND	NC	
4-Bromofluorobenzene (S)	%	84	83		

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 158460 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927037705

SAMPLE DUPLICATE: 927037796

Parameter	Units	927036673 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	25.80	26.70	4	

Date: 06/14/06

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 158603 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927037713 927037721 927037739 927037747 927037754 927037762 927037770 927037788

SAMPLE DUPLICATE: 927041608

Parameter	Units	927040741 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	17.30	15.10	14	

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QUALITY CONTROL DATA

Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QC Batch: 158643 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927042093 927042101 927042119 927042127 927042135
927042143 927042150 927042168 927042176

SAMPLE DUPLICATE: 927043224

Parameter	Units	927039859 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	14.00	11.10	23	

Date: 06/14/06

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Lab Project Number: 92120290
Client Project ID: NCDOT Pine Par 10 WBS 34948.11

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	RPD value was outside of control limits, however % Recoveries were acceptable. Samples for QC batch accepted based on % recoveries and completeness of QC data.

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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.

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0999468

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AMEC	Report To: Helen Corley	Attention: Bill Medford
Address: 9800 West Kirrey Ave #190 Huntersville NC 28078	Copy To:	Company Name: NCDOT Geotechnical
		Address: Raleigh
Email To: helen.corley@amec.com	Purchase Order No.:	Pace Quote Reference: WBS Element 34948.1.1
Phone: 7048753570 Fax: 7048758118	Project Name: NCDOT Pineville-Parcel 10	Pace Project Manager: Richard Swantz
Requested Due Date/TAT: STD	Project Number: 6930063447	Pace Profile #: 3578-5

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☑ UST ☐ RCRA ☐ Other

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☑NC ☐OH ☐SC ☐WI ☐OTHER

Section D Required Client Information

SAMPLE ID — One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

Requested Analysis: TPH-GRO, TPH-DRO

Pace Project Number: 92120210

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	TPH-GRO	TPH-DRO	Residual Chlorine (Y/N)	Lab I.D
1	P10-10	SL	G			5/31/06	0930												X	X		92 [illegible]
2	P10-11	↓	↓			↓	0940												↓	↓		[illegible]
3	P10-12						0950															[illegible]
4	P10-13						0955															[illegible]
5	P10-14						1000															[illegible]
6	P10-15						1005															[illegible]
7	P10-16						1015															[illegible]
8	P10-17						1020															[illegible]
9	P10-18	↓	↓			↓	1040												↓	↓		[illegible]
10																						
11																						
12																						

Additional Comments:
Combine with results from Chain# 987496 from 5/30/06 for Report. Call with any Questions.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
Kelly Phillips/AMEC	5/31/06	1715	[illegible]	5/31	1715	[illegible]	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kelly Phillips

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 5/31/06

SEE REVERSE SIDE FOR INSTRUCTIONS

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CHAIN-OF-CUSTODY / Analytical Request Document

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0987496

Section A Required Client Information:

Company	AMEC
Address	4900 West Kwey Ave Suite 190 Huntsville, AL 35805
Email To:	helen.carley@amec.com
Phone	7048753570
Fax	7048758718
Requested Due Date/TAT:	STD

Section B Required Project Information:

Report To:	Helen Carley
Copy To:	
Purchase Order No.:	
Project Name:	NCDOT Pineville - Parcel 10
Project Number:	69300347

Section C Invoice Information:

Attention:	Bill Medford
Company Name:	NCDOT - Geotechnical contract
Address:	Raleigh
Pace Quote Reference:	WBS Element 34948.1.1
Pace Project Manager:	Richard Swartz
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ Other_____

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☑NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TPH-GRO / TPH-DRO	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	P10-1	SL	G			5/3/06	1115		1									X	X		92703705
2	P10-2						1245														7713
3	P10-3						1300														7721
4	P10-4						1315														7739
5	P10-5						1320														7747
6	P10-6						1330														7754
7	P10-7						1340														7762
8	P10-8						1350														7770
9	P10-9						1400														7788
10																					
11																					
12																					

92120290 Pace Project Number

Additional Comments:

Please call with any Questions

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kelly Phillips	5/3/06	1740			

SAMPLE CONDITION

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kelly Phillips

SIGNATURE of SAMPLER: Kelly Phillips

DATE Signed (MM / DD / YY): 5/3/06

SEE REVERSE SIDE FOR INSTRUCTIONS