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

Gerald Rhyne Property, Parcel #22
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
Huntersville, North Carolina 28078
(704) 875-3570

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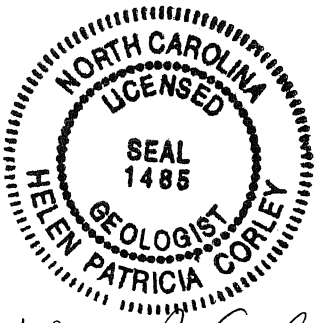

Helen P. Corley, L.G.
Senior Geologist/Project Manager

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

APPENDICES

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 Gerald Rhyne Property (Parcel # 22) to be acquired for drainage improvements along Downs Circle and Downs Road. The property is located at 12629 Downs Road, 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 Gerald Rhyne Property due to usage of the property as an auto body repair shop. This parcel will undergo drainage improvements along the road frontage of Down Circle as well as a section trending north-south into the parcel and along Downs Road.

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 located 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 results of the geophysical investigation, 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 Gerald Rhyne Property is located on the north side of Downs Circle immediately east 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 1.74 acre parcel. A single story metal workshop with office area occupies the site. Multiple automotive access bays are present in the workshop. No above ground storage tanks (ASTs) or underground storage tanks (USTs) were observed on the site.

The drainage improvement easement lengths are approximately 240 ft along Downs Circle and 50 ft along Downs Road. Subsurface utilities were plentiful throughout the easement. AMEC conducted 11 geoprobe borings along a transect parallel to Downs Circle, and 2 additional geoprobe borings along a transect perpendicular to Downs Circle. The upcoming drainage line run, plus future catch basin and drop inlet locations were targeted as closely as possible based upon utilities.

Sample locations and the site layout are shown in Figure 2 and site photographs are included in Appendix 1.

Adjacent properties across Downs Circle include All Points Trucking (large truck repair shop), Super Sod to the southwest, a residence to the southeast and west and commercial properties to the east (insurance company), north (commercial parking), and northwest (HH Downs LLC).

2.0 GEOLOGY

2.1 Regional Geology

The Gerald Rhyne 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 12 direct push probe borings and 1 hand auger boring. The direct push borings extended to total depths ranging from 7 to 8 feet below ground surface (bgs). Soils generally consisted of a surfical fill of asphalt, gravel with fines or brown silt topsoil. The surface fill was generally underlain by saprolite at a general depth of less than 1ft bgs. The saprolite generally consisted of a orangish brown and light brown clayey silt grading into a less weathered sandy silt at depth. The hand auger boring was advanced at a topographic low point along the drainage ditch (P22-13). Refusal was encountered at 1ft bgs at this location. Gabbro appears to be the bedrock underlying the site. Boring logs are presented in Appendix 2.

Saturated soils (ground water) were encountered in the 12 direct push borings at an approximate depth of 6ft bgs. The depth to water in the ditch sample was approximately 1ft bgs. The stormwater pipe exits the site to the southeast 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

Eleven direct push soil borings were conducted parallel to Downs Circle within the drainage easement along the east-west trending ditch at an approximate spacing of 20ft. These samples were used to target the future ditch line location as closely as possible. Two additional samples (P22-12 and P22-13) were located along a transect perpendicular to Downs Circle to intercept the proposed drainage utilities in the area. The total depth of

each boring was at or very near the refusal depth and is the assumed to be near the top of competent bedrock.

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 1. 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 Gerald Rhyne Property (Parcel # 22) 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 13 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 one detectable concentration (7.4 mg/kg) in the ditch sample collected with the hand auger at boring location P22-13. The contaminant appears to be associated with the ditch and possibly deposited from surface water transport. The DRO detection does not exceed the NCDENR Reporting level of 10 mg/kg nor the 40mg/kg Action Level but if impacted soil is excavated with any detection of GRO/DRO; this constitutes the need for special handling and disposal under the NCDENR Groundwater Section Program. Based upon the location of the ditch, the extent of the proposed study area, and the projected depth to bedrock, AMEC estimates that 20 cubic yards of soil may require special handling if disturbed during construction. The area of potentially petroleum-impacted soil is shown on Figure 2

There were no analytical detections in any of the other 12 borings.

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 3.

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, 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 - 1.5ft bgs in the area of DRO impacted soil.

AMEC estimates that 20 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 Gerald Rhyne Property, Parcel #22 is occupied by an auto body repair shop.
- No field indicators of petroleum contaminants were observed in samples collected for this investigation.
- Laboratory analyses of soil samples indicated detectable levels of GRO in 1 of the 13 soil samples.
- The DRO detection was associated with the drainage ditch collected from approximately 1ft bgs.
- The DRO contaminant appears to have been transported downstream to Parcel #9 and #10.
- Approximately 20 cubic yards of petroleum-contaminated soil is potentially present within the ditch 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.

TABLES

Table 1
Gasoline and Diesel Range Organic Analytical Results in Soil Samples
NCDOT Parcel 22
Gerald Rhyne 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
P22-1	05/30/2006	3-5	0	BQL (4.4)	BQL (5.8)
P22-2	05/30/2006	3-5	0	BQL (4.8)	BQL (6.2)
P22-3	05/30/2006	4-6	0	BQL (4.8)	BQL (6.4)
P22-4	05/30/2006	3-5	0	BQL (4.7)	BQL (6.3)
P22-5	05/30/2006	3-5	0	BQL (5.4)	BQL (7.0)
P22-6	05/30/2006	3-5	0	BQL (4.5)	BQL (6.2)
P22-7	05/30/2006	3-5	0	BQL (4.6)	BQL (6.2)
P22-8	05/30/2006	3-5	0	BQL (4.0)	BQL (5.4)
P22-9	05/31/2006	3-5	0	BQL (4.5)	BQL (5.9)
P22-10	05/31/2006	3-5	0	BQL (5.3)	BQL (6.1)
P22-11	05/31/2006	3-5	0	BQL (5.4)	BQL (6.3)
P22-12	05/31/2006	3-5	0	BQL (5.0)	BQL (6.8)
P22-13	05/31/2006	0-1	0	BQL (5.1)	7.4

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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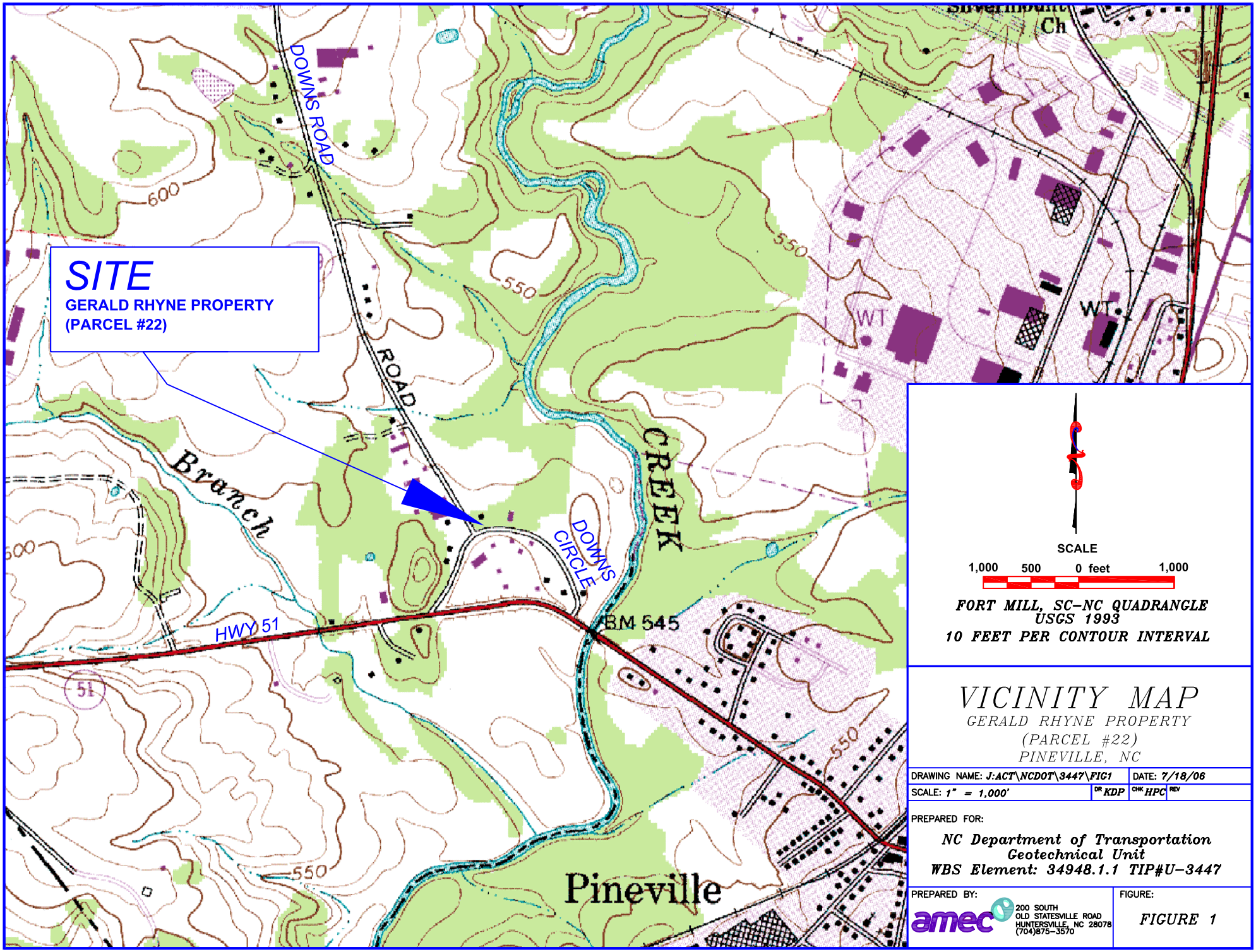
FIGURES



VICINITY MAP

GERALD RHYNE PROPERTY
(PARCEL #22)
PINEVILLE, NC

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

PREPARED FOR:

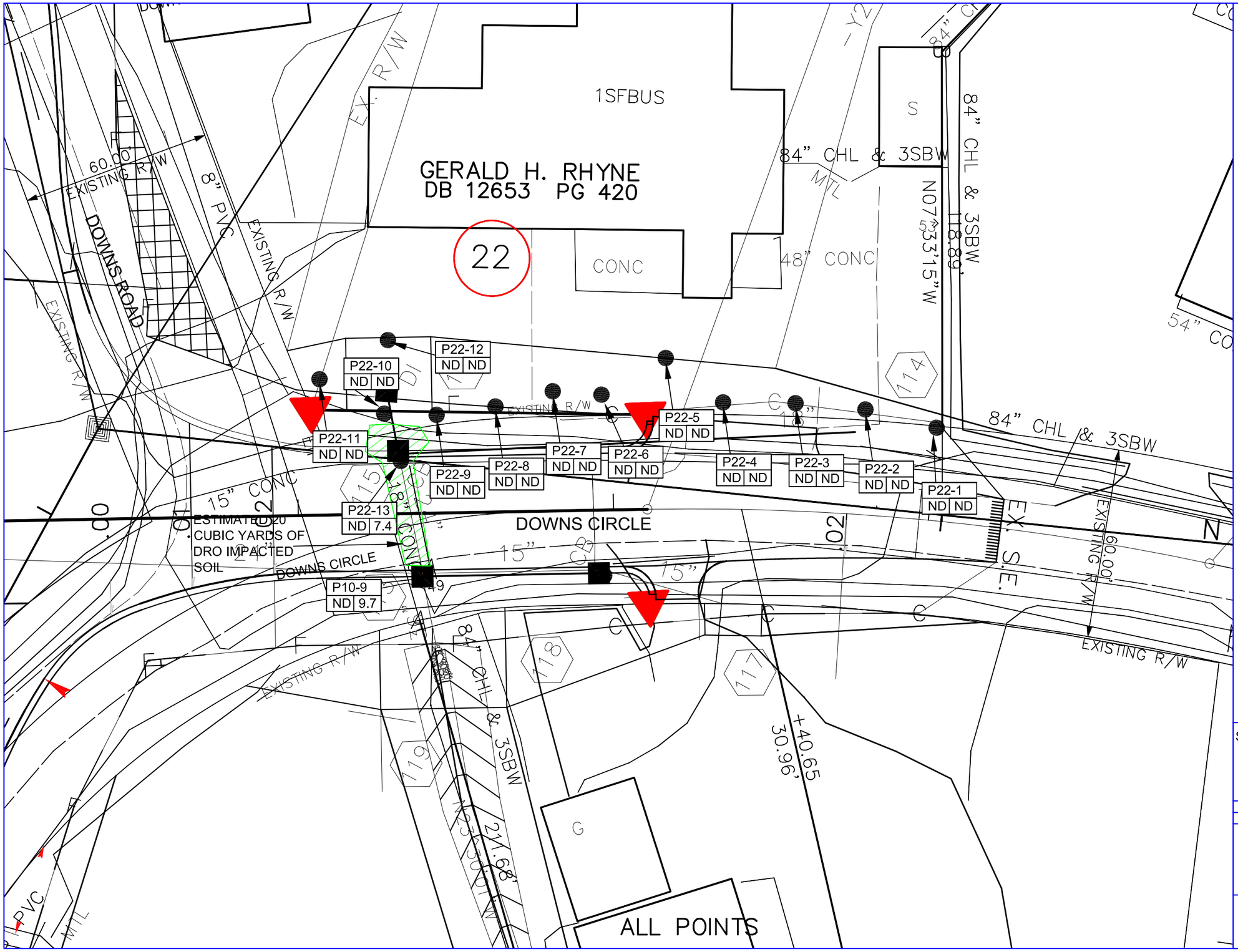
NC Department of Transportation
Geotechnical Unit
WBS Element: 34948.1.1 TIP#U-3447

PREPARED BY:

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

FIGURE:

FIGURE 1



LEGEND

SOIL BORING LOCATION

SOIL BORING IDENTIFICATION

P22-8
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 PINEVILLE, NC PARCEL #22

DRAWING NAME: J:\ACT..NCDOT..05..3447		DATE: 7/25/06	
SCALE: 1"=30"	DR TLH	CHK HPC	REV

PREPARED FOR:

NC Department of Transportation
Geotechnical Unit
WBS Element: 34948.1.1

PREPARED BY:
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HUNTERSVILLE, NC 28078
(704)875-3570

FIGURE:

FIGURE 2

APPENDIX 1

SITE PHOTOGRAPHS

Photo Log

Photo No.	Date:
1	5/11/06

Direction Photo Taken: Northeast

Description:
At the intersection of Downs Circle and Downs Road

Photo No.	Date:
2	5/11/06

Direction Photo Taken: East

Description: Ditch parallel to Downs Circle

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APPENDIX 2

BORING LOGS

Project Name: NCDOT Pineville PSAs

BORING NO: P 22-1

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
		Ground Surface				
0.0		**TOPSOIL** **Silt** Brown	ML			
		SAPROLITE **Clayey Silt** Orangish-brown and light brown; coarse granular relic grain structure visible		0		
2.0			ML	0		
				0		
4.0				0		
				0		
6.0		**Sandy Silt** Grey and orangish-brown; coarse granular relic grain structure visible; damp at 6'		0		Damp at 6'
			ML	0		
8.0		**TERMINATION AT 8'**				

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 22-2

Project Location: Pineville, NC

Date: 5/30/2006

Geologist: Kelly D. Phillips

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
		Ground Surface				
0.0		**TOPSOIL** **Silt** Brown	ML			
		SAPROLITE **Clayey Silt** Orangish-brown and light brown; coarse granular relic grain structure visible		0		
2.0			ML	0		
				0		
4.0				0		
				0		
6.0		**Sandy Silt** Grey and orangish-brown; damp at 8'		0		
			ML	0		
8.0		**TERMINATION AT 8'**				Damp at 8'

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 22-3

Project Number: 6-9300-3447

Project Location: Pineville, NC

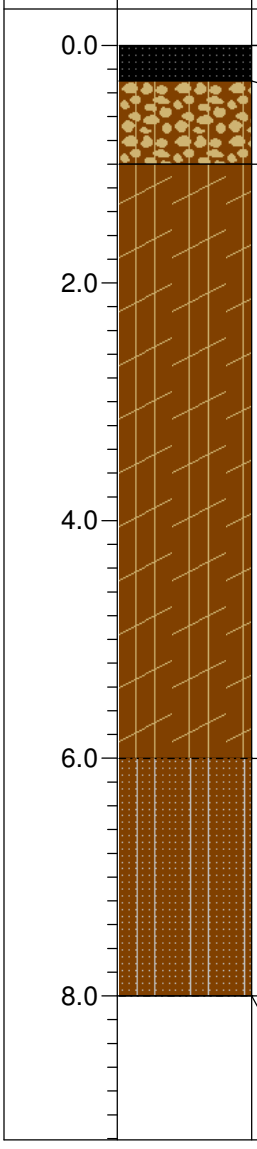
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore



Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
		Ground Surface				
0.0		**Asphalt**				
		Sandy Silty Gravel Brown; base coarse	GM	0		
		SAPROLITE **Clayey Silt** Orangish-brown and light brown	ML	0		
2.0				0		
				0		
4.0				0		
				0		
6.0		**Sandy Silt** Grey and orangish-brown; wet below 6'	ML	0		Wet below 6'
				0		
8.0		**TERMINATION AT 8'**				

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 22-4

Project Number: 6-9300-3447

Project Location: Pineville, NC

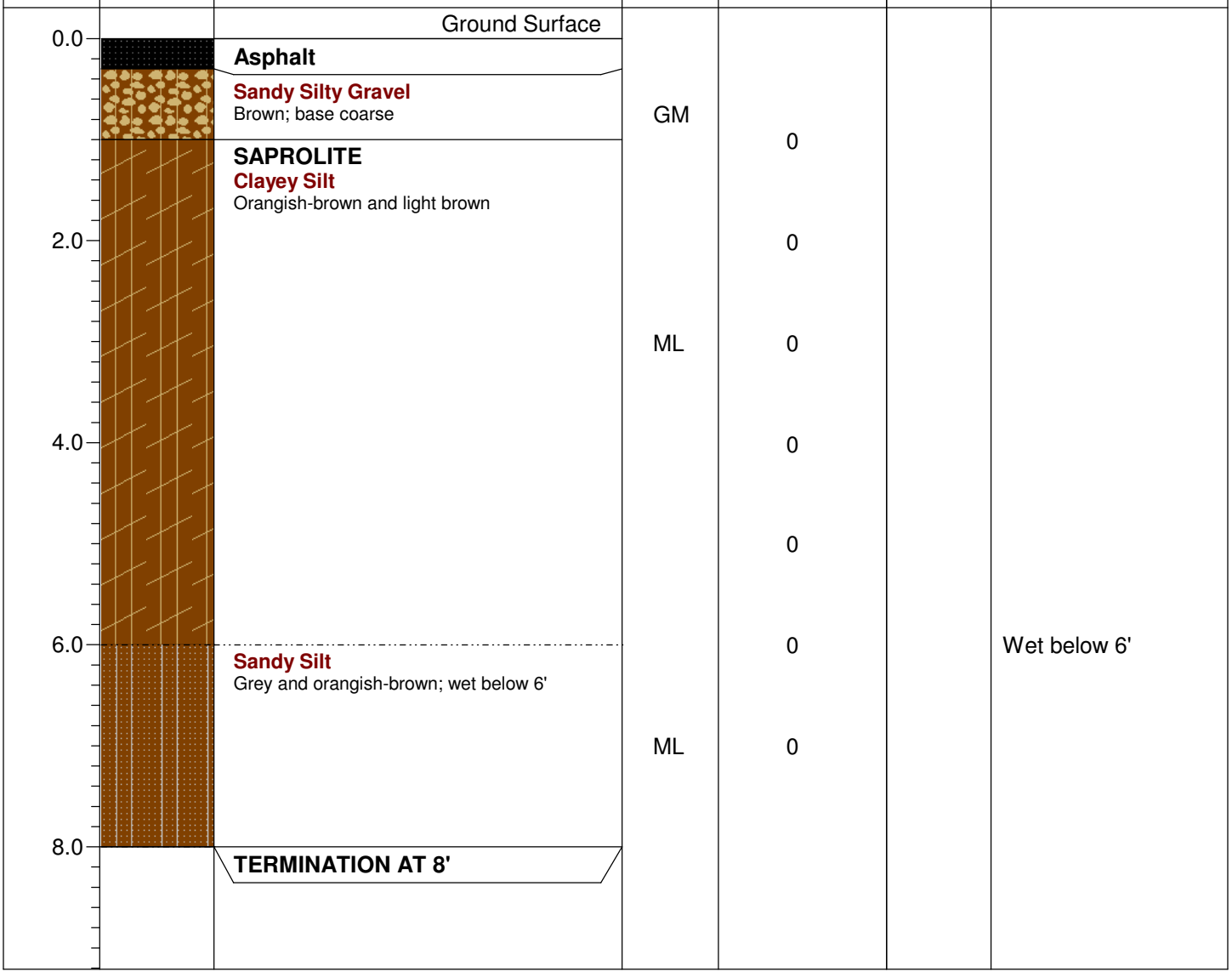
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore



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 22-5

Project Number: 6-9300-3447

Project Location: Pineville, NC

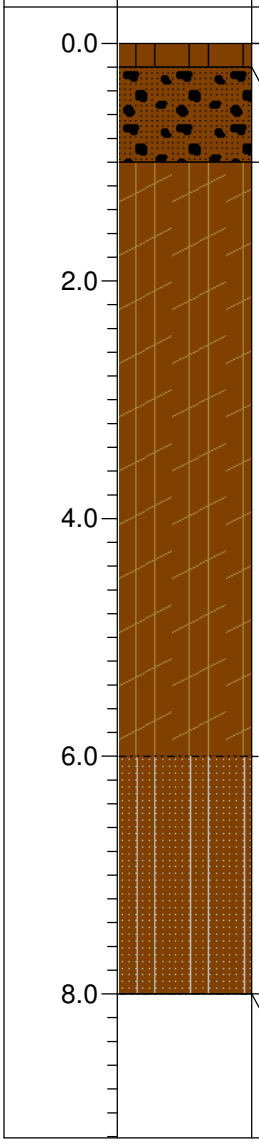
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore



Depth (ft)	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
	Ground Surface				
0.0	**TOPSOIL** Brown	ML			
	Gravel with fines	GM	0		
	SAPROLITE **Clayey Silt** Orangish-brown and light brown				
2.0			0		
		ML	0		
4.0			0		
			0		
6.0	**Sandy Silt** Grey and orangish-brown; wet below 6'		0		Wet below 6'
		ML	0		
8.0	**TERMINATION AT 8'**				Termination depth 8'

Hole Size: 2"

AMEC Earth & Environmental, Inc.
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Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 22-6

Project Number: 6-9300-3447

Project Location: Pineville, NC

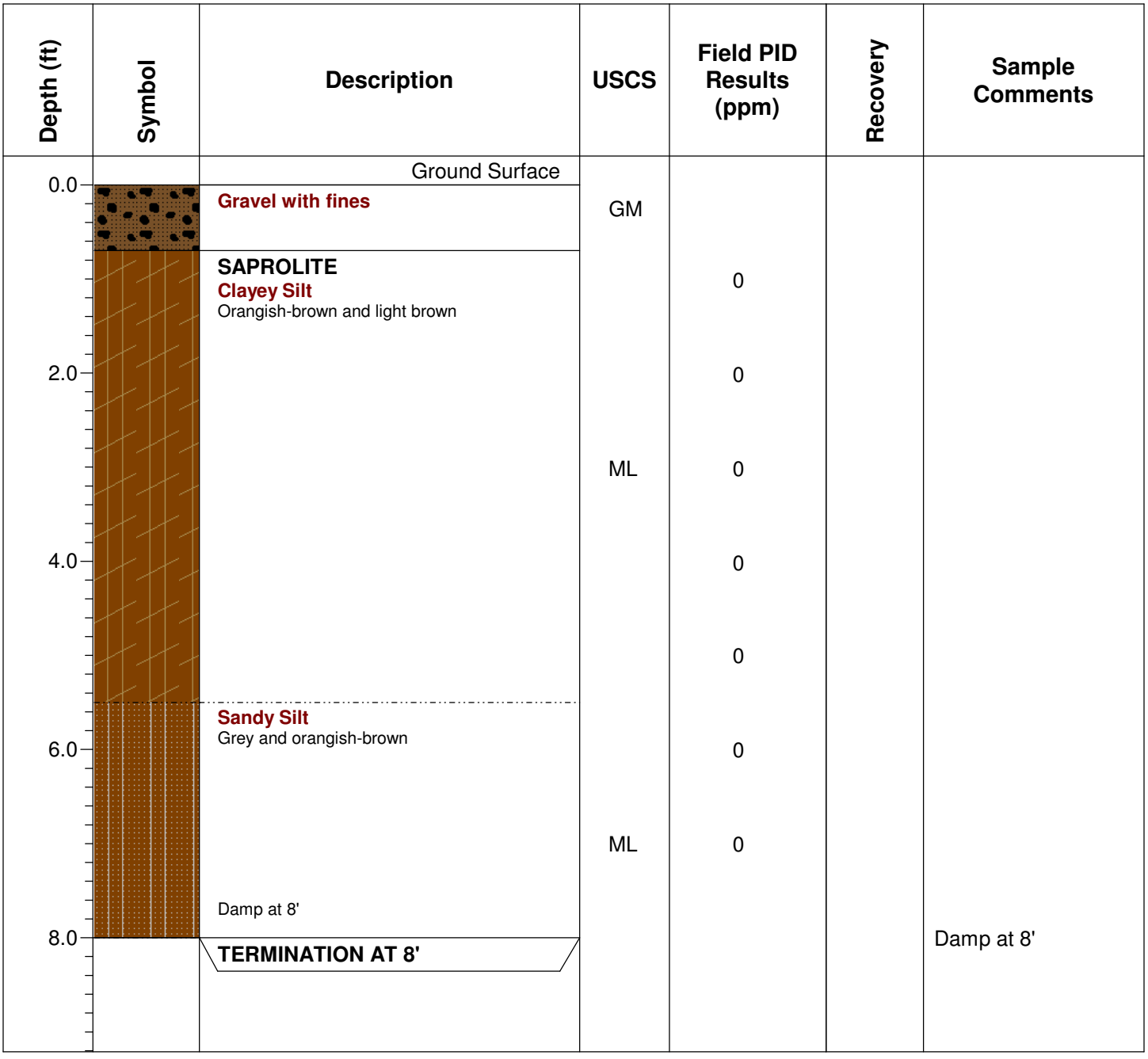
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore



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 22-7

Project Location: Pineville, NC

Date: 5/30/2006

Geologist: Kelly D. Phillips

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
		Ground Surface				
0.0		**Gravel with fines**	GM	0		
		SAPROLITE **Clayey Silt** Orangish-brown and light brown		0		
2.0				0		
			ML	0		
4.0				0		
				0		
		Sandy Silt Grey and orangish-brown	ML	0		
6.0		**Refusal at 7'**				
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 22-8

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				
		Gravel with fines	GM			
		SAPROLITE **Clayey Silt** Orangish-brown and light brown		0		
2.0				0		
			ML	0		
4.0				0		
				0		
		Sandy Silt Grey and orangish-brown; Wet at 6'		0		Wet at 6'
6.0			ML	0		
8.0		**TERMINATION AT 8'**				

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 22-9

Project Number: 6-9300-3447

Project Location: Pineville, NC

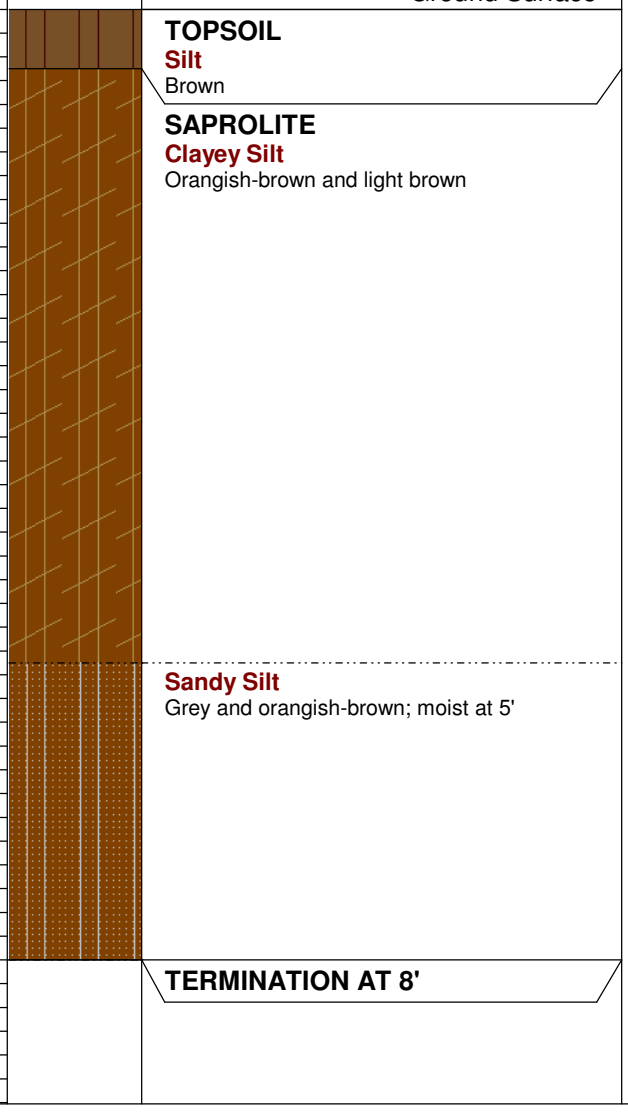
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore



Depth (ft)	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
	Ground Surface				
0.0	**TOPSOIL** **Silt** Brown	ML			
	SAPROLITE **Clayey Silt** Orangish-brown and light brown		0		
2.0			0		
		ML	0		
4.0			0		
			0		
	Sandy Silt Grey and orangish-brown; moist at 5'		0		Moist at 5'
6.0		ML	0		
8.0	**TERMINATION AT 8'**				

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 22-10

Project Number: 6-9300-3447

Project Location: Pineville, NC

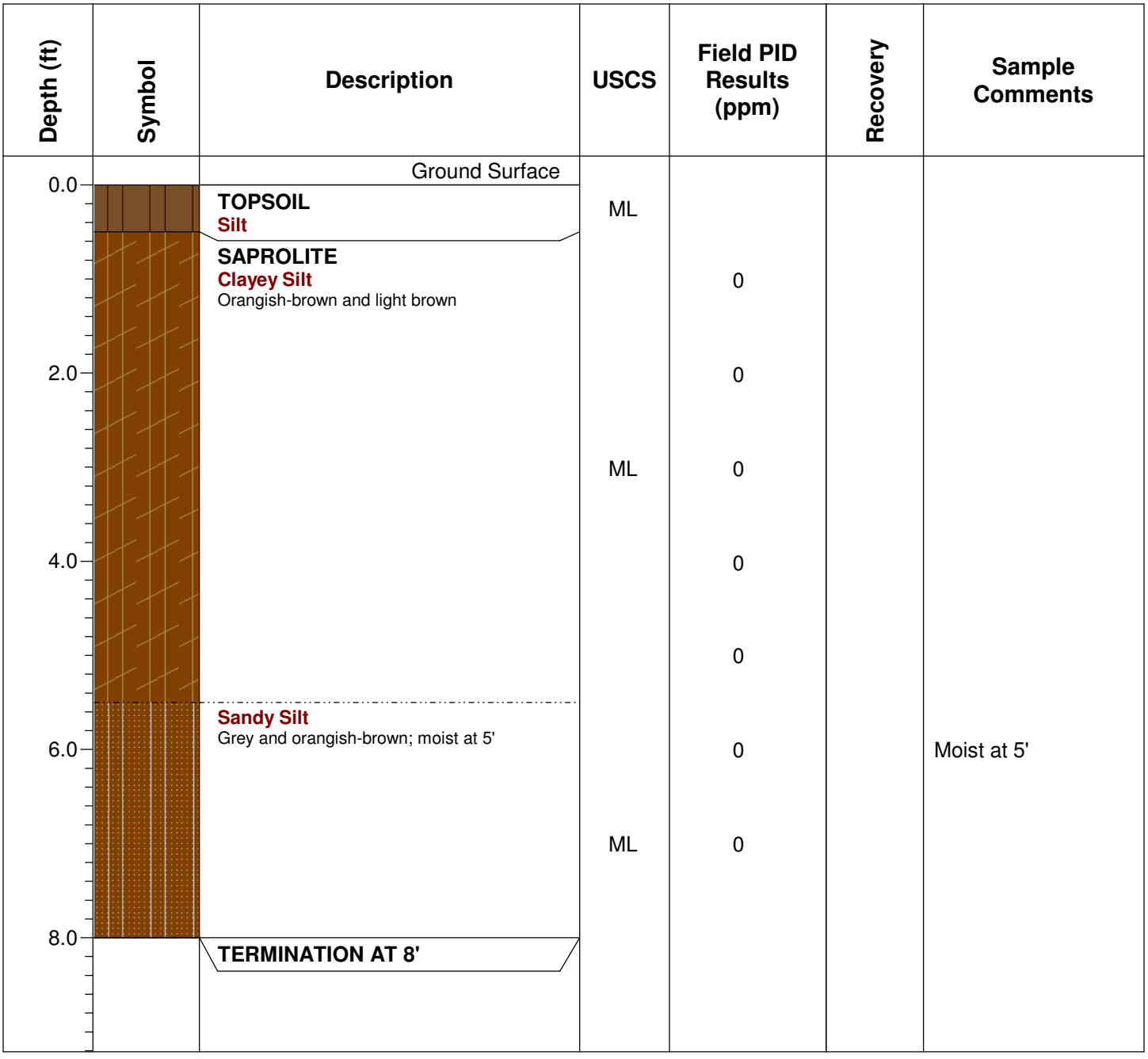
Drilling Company: EDPS

Date: 5/30/2006

Driller: Tommy Bolyard

Geologist: Kelly D. Phillips

Drilling Method: Direct Push Macrocore



Hole Size: 2"

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Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 22-11

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
		Ground Surface				
0.0		**TOPSOIL** **Silt**	ML			
		SAPROLITE **Clayey Silt** Orangish-brown and light brown		0		
2.0				0		
			ML	0		
4.0				0		
				0		
		Sandy Silt Grey and orangish-brown; moist at 5'		0		Moist at 5'
6.0			ML	0		
8.0		**TERMINATION AT 8'**				

Hole Size: 2"

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Project Name: NCDOT Pineville PSAs

BORING NO: P 22-12

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				
		TOPSOIL	ML			
		Silt				
		SAPROLITE				
		Clayey Silt		0		
		Orangish-brown and light brown				
2.0				0		
		Wet below 3'				
			ML	0		Wet below 3'
4.0				0		
				0		
		Sandy Silt				
6.0		Grey and orangish-brown	ML	0		
		Refusal at 7'				
8.0						

Hole Size: 2"

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Huntersville, North Carolina 28078

Project Name: NCDOT Pineville PSAs

BORING NO: P 22-13

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: Hand Auger

Depth (ft)	Symbol	Description	USCS	Field PID Results (ppm)	Recovery	Sample Comments
0.0		Ground Surface				
		Clayey Silt **with Sand** Brown, moist	ML	0		
		Refusal at 1'				
2.0						
4.0						
6.0						
8.0						

Hole Size: 3-1/2"

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APPENDIX 3

LABORATORY ANALYTICAL REPORTS
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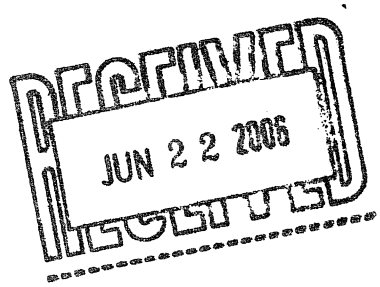
June 14, 2006



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

RE: Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 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: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Solid results are reported on a dry weight basis

Lab Sample No: 927037622 Project Sample Number: 92120289-001 Date Collected: 05/30/06 10:45
Client Sample ID: P22-1 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	14.2	%		05/31/06 08:56	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	5.8	06/07/06 02:26	KBS	68334-30-5		
n-Pentacosane (S)	56	%		06/07/06 02:26	KBS	629-99-2		
Date Extracted	06/05/06			06/05/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.4	06/08/06 19:47	DHW			
4-Bromofluorobenzene (S)	82	%		06/08/06 19:47	DHW	460-00-4		

Date: 06/14/06

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037630 Project Sample Number: 92120289-002 Date Collected: 05/30/06 15:00
Client Sample ID: P22-2 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	19.0	%		05/31/06 08:56	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.2	06/06/06 22:35	KBS	68334-30-5		
n-Pentacosane (S)	51	%		06/06/06 22:35	KBS	629-99-2		
Date Extracted	06/05/06			06/05/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.8	06/08/06 20:45	DHW			
4-Bromofluorobenzene (S)	84	%		06/08/06 20:45	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037648 Project Sample Number: 92120289-003 Date Collected: 05/30/06 15:10
Client Sample ID: P22-3 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	21.5	%		05/31/06 08:56	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.4	06/09/06 17:49	KBS	68334-30-5		
n-Pentacosane (S)	63	%		06/09/06 17:49	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	4.8	06/08/06 21:43	DHW			
4-Bromofluorobenzene (S)	103	%		06/08/06 21:43	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037655 Project Sample Number: 92120289-004 Date Collected: 05/30/06 15:20
Client Sample ID: P22-4 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	20.1	%		05/31/06 08:56	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.3	06/09/06 19:16	KBS	68334-30-5		
n-Pentacosane (S)	31	%		06/09/06 19:16	KBS	629-99-2	1	
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.7	06/08/06 22:11	DHW			
4-Bromofluorobenzene (S)	82	%		06/08/06 22:11	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037663 Project Sample Number: 92120289-005 Date Collected: 05/30/06 15:30
Client Sample ID: P22-5 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	28.2	%		05/31/06 08:57	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	7.0	06/09/06 18:54	KBS	68334-30-5		
n-Pentacosane (S)	62	%		06/09/06 18:54	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	5.4	06/08/06 22:40	DHW			
4-Bromofluorobenzene (S)	79	%		06/08/06 22:40	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037671 Project Sample Number: 92120289-006 Date Collected: 05/30/06 15:40
Client Sample ID: P22-6 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	19.4	%		05/31/06 08:31	KDF			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.2	06/09/06 17:28	KBS	68334-30-5		
n-Pentacosane (S)	53	%		06/09/06 17:28	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	4.5	06/08/06 23:09	DHW			
4-Bromofluorobenzene (S)	79	%		06/08/06 23:09	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037689 Project Sample Number: 92120289-007 Date Collected: 05/30/06 15:55
Client Sample ID: P22-7 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	18.8	%		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	6.2	06/09/06 18:32	KBS	68334-30-5		
n-Pentacosane (S)	80	%		06/09/06 18:32	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	4.6	06/08/06 23:38	DHW			
4-Bromofluorobenzene (S)	83	%		06/08/06 23:38	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927037697 Project Sample Number: 92120289-008 Date Collected: 05/30/06 16:15
Client Sample ID: P22-8 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	7.2	%		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	5.4	06/09/06 18:11	KBS	68334-30-5		
n-Pentacosane (S)	66	%		06/09/06 18:11	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	4.0	06/09/06 00:07	DHW			
4-Bromofluorobenzene (S)	78	%		06/09/06 00:07	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927042044 Project Sample Number: 92120289-009 Date Collected: 05/31/06 07:45
Client Sample ID: P22-9 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	14.8	%		06/01/06 10:03	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)	32	%		06/10/06 06:49	KBS	629-99-2	1	
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	4.5	06/09/06 05:52	DHW			
4-Bromofluorobenzene (S)	72	%		06/09/06 05:52	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927042051 Project Sample Number: 92120289-010 Date Collected: 05/31/06 08:00
Client Sample ID: P22-10 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	17.6	%		06/01/06 10:03	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.1	06/10/06 07:27	KBS	68334-30-5		
n-Pentacosane (S)	45	%		06/10/06 07:27	KBS	629-99-2	1	
Date Extracted	06/07/06			06/07/06				
GC Volatiles								
GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.3	06/09/06 06:21	DHW			
4-Bromofluorobenzene (S)	71	%		06/09/06 06:21	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927042069 Project Sample Number: 92120289-011 Date Collected: 05/31/06 08:15
Client Sample ID: P22-11 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	20.8	%		06/01/06 10:07	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 04:14	KBS	68334-30-5		
n-Pentacosane (S)	56	%		06/10/06 04:14	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	5.4	06/09/06 06:50	DHW			
4-Bromofluorobenzene (S)	69	%		06/09/06 06:50	DHW	460-00-4		

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Fax: 704.875.9091

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927042077 Project Sample Number: 92120289-012 Date Collected: 05/31/06 08:30
Client Sample ID: P22-12 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	26.7	%		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	6.8	06/13/06 16:59	KBS	68334-30-5		
n-Pentacosane (S)	62	%		06/13/06 16:59	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	5.0	06/09/06 21:37	DHW			
4-Bromofluorobenzene (S)	83	%		06/09/06 21:37	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

Lab Sample No: 927042085 Project Sample Number: 92120289-013 Date Collected: 05/31/06 08:45
Client Sample ID: P22-13 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	23.9	%		06/01/06 10:08	TNM			
GC Semivolatiles								
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	7.4	mg/kg	6.6	06/10/06 09:23	KBS	68334-30-5		
n-Pentacosane (S)	64	%		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	5.1	06/09/06 22:06	DHW			
4-Bromofluorobenzene (S)	78	%		06/09/06 22:06	DHW	460-00-4		

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 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]	Low surrogate recovery was confirmed as a matrix effect by a second analysis.

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QUALITY CONTROL DATA

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 158911 Analysis Method: EPA 8015
QC Batch Method: EPA 3545 Analysis Description: TPH in Soil by 3545/8015
Associated Lab Samples: 927037622 927037630

METHOD BLANK: 927055277
Associated Lab Samples: 927037622 927037630

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	83		

LABORATORY CONTROL SAMPLE: 927055285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Fuel	mg/kg	166.70	93.34	56	
n-Pentacosane (S)				58	

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Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 159164 — Analysis Method: EPA 8015
QC Batch Method: EPA 3545 — Analysis Description: TPH in Soil by 3545/8015
Associated Lab Samples: 927037648 927037655 927037663 927037671 927037689 927037697

METHOD BLANK: 927065797
Associated Lab Samples: 927037648 927037655 927037663 927037671 927037689 927037697

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	67		

LABORATORY CONTROL SAMPLE: 927065805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diesel Fuel	mg/kg	166.70	84.87	51	
n-Pentacosane (S)				52	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927065813 927065821

Parameter	Units	927037697 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Diesel Fuel	mg/kg	1.534	179.50	101.2	116.2	56	64	14	
n-Pentacosane (S)						61	72		

Date: 06/14/06

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QUALITY CONTROL DATA

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 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: 927042044 927042051 927042069 927042077 927042085

METHOD BLANK: 927065847
Associated Lab Samples: 927042044 927042051 927042069 927042077 927042085

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: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 159259 Analysis Method: EPA 8015
QC Batch Method: EPA 8015 Analysis Description: GAS, Soil, North Carolina
Associated Lab Samples: 927037622 927037630 927037648 927037655 927037663 927037671 927037689 927037697 927042044 927042051 927042069

METHOD BLANK: 927070789
Associated Lab Samples: 927037622 927037630 927037648 927037655 927037663 927037671 927037689 927037697 927042044 927042051 927042069

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: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 159354 Analysis Method: EPA 8015
QC Batch Method: EPA 8015 Analysis Description: GAS, Soil, North Carolina
Associated Lab Samples: 927042077 927042085

METHOD BLANK: 927073627
Associated Lab Samples: 927042077 927042085

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: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 158460 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927037689 927037697

SAMPLE DUPLICATE: 927037796

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

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QUALITY CONTROL DATA

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 158461 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927037671

SAMPLE DUPLICATE: 927037804

Parameter	Units	927036137 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	26.30	25.50	3	

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QUALITY CONTROL DATA

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 158462 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927037622 927037630 927037648 927037655 927037663

SAMPLE DUPLICATE: 927037812

Parameter	Units	927036368 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	27.70	29.50	6	

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QUALITY CONTROL DATA

Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 WBS 34948.11

QC Batch: 158643 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927042044 927042051 927042069 927042077 927042085

SAMPLE DUPLICATE: 927043224

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

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Lab Project Number: 92120289
Client Project ID: NCDOT Pine Par 22 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

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Section A
Required Client Information:

Company: AMEC

Address: 9800 Westkinney Ave #190
Huntersville, NC 28078

Email To: helen.carley@amec.com

Phone: 704 875 3570 Fax: 704 875 7718

Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Helen Carley

Copy To:

Purchase Order No.:

Project Name: NCDOT Pittsville Parcel 22

Project Number:

Section C
Invoice Information:

Attention: Bill Maitland

Company Name: NCDOT Geotechnical Contract

Address: Raleigh

Pace Quote Reference: UBSElement 34948.1.1

Pace Project Manager: Richard Swartz

Pace Profile #: 1

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TPH GRO / TPH DRO	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	P22-1	S	G	9/3/06	1045														XX		92537022
2	P22-2				1500																7031
3	P22-3				1510																7045
4	P22-4				1520																7055
5	P22-5				1530																7063
6	P22-6				1540																7071
7	P22-7				1555																7081
8	P22-8				1615																7097
9																					
10																					
11																					
12																					

Additional Comments:
Please call with any questions

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kelly Phillips/AMEC	9/3/06	1740			

SAMPLE CONDITION

	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: Kelly Phillips

DATE Signed (MM / DD / YY): 9/3/06

SEE REVERSE SIDE FOR INSTRUCTIONS

ALLQ020rev.3.31Mar05

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Company:	AMEC
Address:	9800 West Kincey Ave #190
	Huntersville, NC 28078
Email To:	helen.corley@amec.com
Phone: 704 875 3570	Fax: 704 875 8718
Requested Due Date/TAT:	Std

Section B
Required Project Information:

Report To:	Helen Corley
Copy To:	
Purchase Order No.:	NCDOT Pineville-Parcel 22
Project Name:	NCDOT Pineville Parcel 22
Project Number:	6930034417

Section C
Invoice Information:

Attention:	Bill Medford
Company Name:	NCDOT - Geotechnical
Address:	Raleigh
Pace Quote Reference:	WBS Element 34948.1.1
Pace Project Manager:	Richard Swartz
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: 9212699

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	TPH GRO	TPH DRO	Residual Chlorine (Y/N)	Lab I.D
1	P22-9	SL	G			5/31/06	0745											X	X		9212699001
2	P22-10	SL	G			5/31/06	0800											X	X		002
3	P22-11	SL	G			5/31/06	0815											X	X		003
4	P22-12	SL	G			5/31/06	0830											X	X		004
5	P22-13	SL	G			5/31/06	0845											X	X		005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

Combine with results from Chain 0987498 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	D.8	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