NC Department of Transportation
Preliminary Site Assessment
State Project: U-2551
WBS Element: 34832.1.1

Howard and Rebecca Mull Property
Parcel #53
January 14, 2011

AMEC Earth and Environmental, Inc. of North Carolina
AMEC Project: 562112551

Troy L. Holzschuh
Engineering Technician

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

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Request for Proposal, dated November 3, 2010, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for the Howard and Rebecca Mull Property (the Site) to be effected by a road improvement project along SR 1922, Enola Rd. The Site which is located on 113 Enola Rd currently operates as a general store, Historic Mull Brothers Grocery and House. However the site formerly operated as a gas station and is identified as Parcel #53 within the NCDOT U-2551 design project. The property is located on the western side of Enola Rd., north of I-40. 113 Enola Rd. is in Morganton of Burke County, North Carolina. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated November 3, 2010.

NCDOT contracted AMEC to perform a PSA on the Howard and Rebecca Mull Property due to reports from the owner that three underground storage tanks (UST) were abandoned in place and that two were removed. The property is a general store. The PSA was performed to determine if soils have been impacted by petroleum compounds and volatile organic compounds as a result of past and present uses of the property within the proposed design project area. This parcel is a historic site so the ROW should not expand; however the site may be affected by construction activities associated with new drainage features for the NCDOT road improvement project along Enola Rd.

The following report summarized the geophysical survey, presents location and capacities of any Underground storage Tanks (USTs), and describes our field investigation with results of chemical analyses. The report includes the evaluation of the analytical data with regards to the presence or absence of soil contamination within the NCDOT design area of parcel #53 and estimates the extent of soil contamination. Appendix A includes a photo log for Parcel #53.

1.1 Site Location and History

The Howard and Rebecca Mull Property parcel is located on the western side of Enola Rd, north of I-40 Morganton, Burke County, North Carolina. It is located within the Metamorphic sediments of the Inner Piedmont Physiographic Province of western North Carolina. Figure 1 shows the site location and vicinity.

AMEC studied the NCDENR UST Registered Tanks Database which listed that one kerosene tank with a capacity of 550 gallons and three gasoline tanks, ranging from 3,000 gallons to 4,000 gallons in capacity, were installed at Mull Brothers Grocery at 113 Enola Rd. on August 5, 1956. All four tanks are permanently closed according to the NCDENR Database. AMEC also reviewed the NCDENR Incident Management Database and identified Incident #12040 Mull Brothers Grocery at 113 Enola Rd. in Morganton, NC. The incident was reported November 10, 1993. The associated close out date is November 11, 1993.

1.2 Site Description

The Site is currently a general store. The proposed DOT project will parallel the eastern property edge of Parcel #53 along Enola Rd. Three USTs were observed at this facility. Appendix A includes a photo log for Parcel #53. AMEC personnel noted that three monitoring wells were accessible for groundwater measurement. Their depths to water ranged from 42.94 to 50.49 feet below top of casing. AMEC personnel also noted a fuel port for one of the UST that could be opened and measured for product. Approximately 2' of product was measured.

The surrounding properties are residential and municipal. The properties to the south, east northeast and north are all residential with single family homes. The property to the west is a graveyard and the property to the south west is a Vocational Rehabilitation Center.

2.0 GEOLOGY

2.1 Regional Geology

The Howard and Rebecca Mull Property is located within the Metamorphic sediments of the Inner Piedmont Physiographic Province of western North Carolina. The Inner Piedmont belt is the most intensely deformed and metamorphosed segment of the Piedmont. The metamorphic rocks range from 500 to 750 million years in age. They include gneiss and schist that have been intruded by younger granitic rocks. The northeast-trending Brevard fault zone forms much of the boundary between the Blue Ridge and Inner Piedmont belts.

2.2 Site Geology

Site geology was observed through the sampling of 8 shallow direct push probe soil borings (SB) onsite. Borings ranged in total depth from 10 feet to 15 feet below ground surface (bgs). Native soils generally consisted of orange, well sorted and clayey silt. Boring logs are presented in Appendix B.

Damp soil conditions were typically first encountered at a depth of 0.5 feet (ft) below ground surface (bgs).

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field sampling 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. On December 2, 2010 a private utility locating company, Priority Underground Locating of Huntersville, North Carolina cleared the proposed drilling locations that were marked in the field by AMEC personnel. North Carolina-1-Call was contacted on December 6 to report the proposed drilling activities and subsequently notify all affected utilities for the parcel. Carolina Soil Investigations, LLC (CSI Drilling) of Olin, North Carolina was retained by AMEC to perform the direct push sampling for soil borings. AMEC coordinated with Schnabel Engineering South (Schnabel) who performed two geophysical surveys (electromagnetic and ground penetrating radar) onsite during December. The geophysical results were reviewed and discussed at the completion of each survey. Prism Laboratories, Inc. was contacted for acquisition of sample bottles. Soil boring locations were focused just beyond the existing ROW. Boring locations were strategically placed around the three remaining UST's and along the front of the parcel to maximize the likelihood of intercepting any potential soil contamination.

3.2 Site Reconnaissance

AMEC personnel completed site reconnaissance on November 11, 2010. During reconnaissance, the area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the subsurface investigation and the number of boring locations was discussed. Boring locations were marked on December 2, 2010.

3.3 Geophysical Survey

Schnabel performed the geophysical surveys from December 1 and 2, 2010 . Schnabel utilized a Geonics EM61-MK2 to perform the electromagnetic induction surveys and a Geophysical Survey Systems SIR-3000 to conduct the ground-penetrating radar (GPR) investigations. These instruments are specifically calibrated to detect metal anomalies that are buried deeply and are characteristically large. The data collected by Schnabel indicates the presence of three USTs within the proposed design area. The three UST's are denoted in Figure 2. Based on the geophysics report UST-1 is expected to be 1,500 gallon in capacity and buried 3-4 feet bgs. UST-2 is expected to be 2,000 in capacity and UST-3 is expected to be 1,500 in capacity. UST-2 and UST-3 are buried 2.5 to 3.5 feet bgs. The complete report can be found in Appendix C.

3.4 Well Survey

No well survey was performed as part of this PSA.

3.5 Soil Sampling

Soil boring occurred on December 8, 2010 at Parcel #53. Eight direct push soil borings were conducted within the NCDOT design project on Parcel #53, which includes the eastern side of the site. Figure 2 presents the Site Map with boring locations and identifications. These samples were located to optimize the likelihood of intercepting any potential soil contamination by targeting the three UST's and the eastern edge of the site which runs parallel to Enola Rd. The first boring (P53-SB-1) was placed at the northern end of the site. Soil borings P53-SB-2 through P53-SB-5 were placed adjacent to, or between the three UST's. Borings P53-SB-6 through P53-SB-8 were placed in forty foot intervals along the remaining eastern edge of the parcel south of the building. Boring locations did not exhibit elevated PID readings; therefore AMEC personnel believed to have had adequate coverage of the site.

Soil samples were collected in accordance with EPA protocols in laboratory-supplied containers. The soil samples for Total Petroleum Hydrocarbons (TPH) –Gasoline Range Organics (GRO) analysis were collected using the 5030 prep method with methanol preservation. Samples for TPH-Diesel Range Organics (DRO) analysis were collected in 4oz. glass containers. Samples for Volatile Organic Compounds (VOC) analysis were collected using the EPA Method 8260. 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 Prism Laboratories in Charlotte, a North Carolina Certified Laboratory following proper chain-of-custody procedures.

4.0 SOIL SAMPLING RESULTS

AMEC conducted soil sampling at the Site on December 8, 2010. 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 methods accompanied by field screening for organic vapors with a Photo Ionized Detector (PID). The laboratory results with PID readings are tabulated in Table 1.

A minimum of one soil sample was collected from each of the 8 completed soil borings from Parcel #53. Typically, if impacted soil is identified, then additional soil samples are obtained; however, at Parcel #53 PID readings did not warrant any additional soil samples. Analyses of soil samples for DRO and GRO did not indicate any sample locations with detections above the reporting limit. Analyses of soil samples for VOC's by EPA method 8260 did indicate one detection for each boring, that being Acetone Laboratory contamination is expected to have been the cause since acetone was in every sample and was not an anticipated site contaminant. All other VOC constituents are Below Reporting Limits (BRL). Figure 3 shows the Site Map with Analytical Data

Since the field investigation and the Laboratory analytical report did not indicate contamination, an estimation of contamination was not warranted.

Copies of the original laboratory report and chain-of-custody documentation are included as Appendix D.

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 December 8, 2010.

- The property presently operates as a General store.
- UST Database for Incident Management identifies the parcel as Incident #12040, which has been closed out.
- NCDENR UST Registered Tanks Database identified the presence of four USTs at the Site, of which three were confirmed with geophysics.
- AMEC personnel identified the presence of petroleum in UST-1
- Eight soil samples were collected and analyzed for TPH GRO and DRO.
- Eight soil samples were collected and analyzed for Volatile Organic Compounds
- Laboratory analyses did not indicate DRO and GRO detections above the analytical method reporting level.
- Laboratory analyses did not indicate VOC by EPA method 8260 for any constituents above the Soil-to-Groundwater Maximum Soil Contaminant Concentration (MSCC).

6.0 RECOMMENDATIONS

Though the parcel is a historical site and the proposed NCDOT design has minimal impact, removal of USTs and any associated piping by the UST owner is recommended. The UST database states that the USTs have been closed; however, field observations indicate

otherwise. Soil will have to be sampled during closure activities and handled following NCDENR's Tank Closure Guidelines.

AMEC understands that a party other than NCDOT may implement the UST closure and following such a situation NCDOT should be cautious of intercepting contaminated soil during road construction activities. If potentially impacted soils are intercepted, AMEC recommends the following action:

- Segregation, followed by proper assessment and handling, of potentially petroleum-impacted soil during roadway improvement construction operations.

TABLES

Table 1
Soil Sampling Analytical Results, DRO-GRO
Parcel 53, Howard Rebecca Mull Property (Historic Mull Brothers Grocery House)
NC DOT
Morganton, Burke County, North Carolina

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (ft bgs)	PID READINGS (ppm)	EPA Method 8015B	
				DRO (mg/kg)	GRO (mg/kg)
NC Action Levels				**10**	**10**
P53-SB-1	12/8/2010	5 - 6	0	<9.2	<4.9
P53-SB-2	12/8/2010	7 - 9	0	<8.8	<5.3
P53-SB-3	12/8/2010	5 - 7	0	<9.0	<4.9
P53-SB-4	12/8/2010	3 - 5	0	<8.8	<4.9
P53-SB-5	12/8/2010	6 - 7	0	<8.5	<4.7
P53-SB-6	12/8/2010	4 - 5	0	<8.9	<4.7
P53-SB-7	12/8/2010	4 - 5	0	<8.9	<4.8
P53-SB-8	12/8/2010	4 - 5	0	<8.5	<4.3

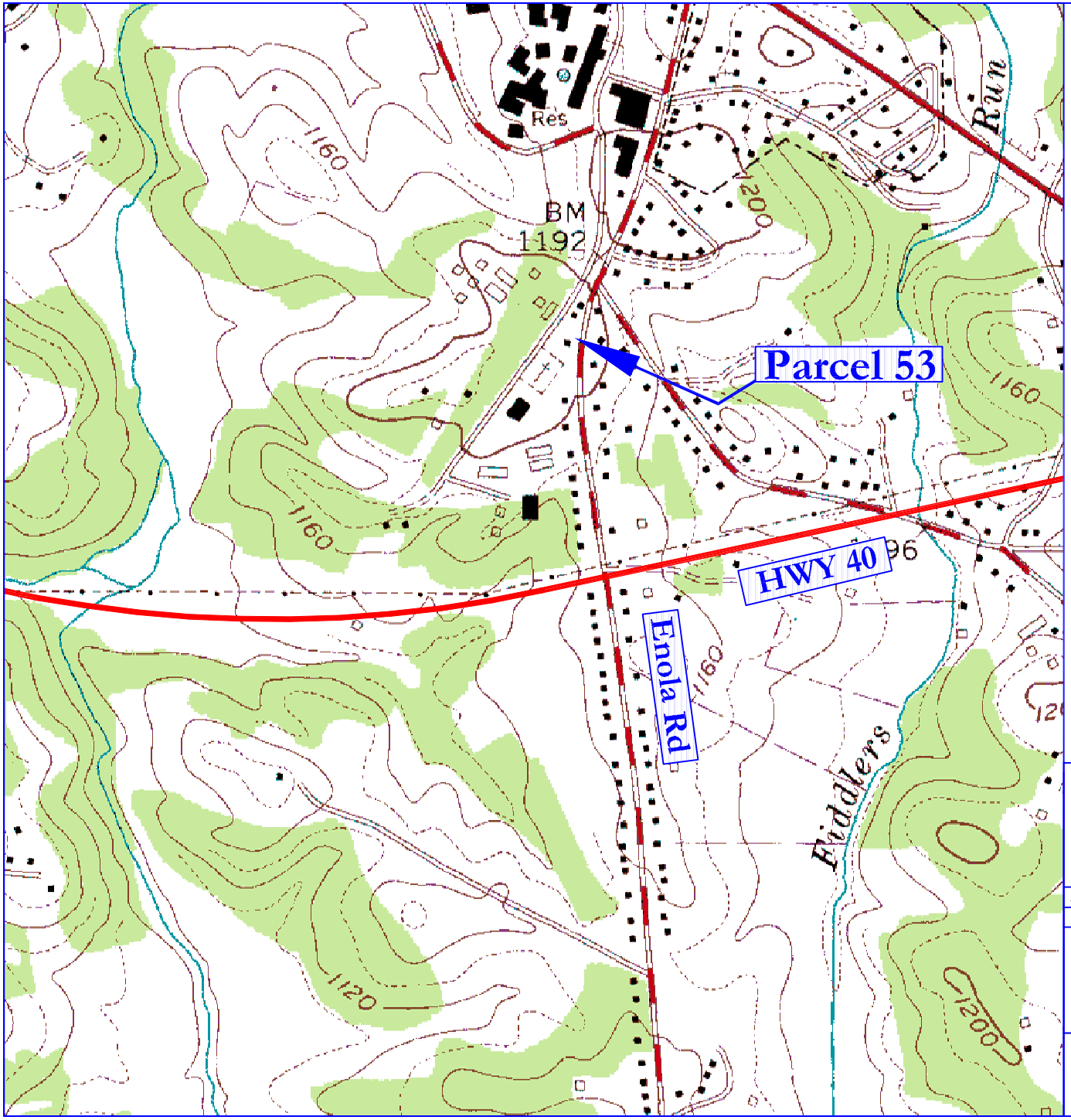
NOTES:
bgs = below ground surface; ppm = parts per million
Bold Concentrations Exceed Action Levels
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
Standards derived from the North Carolina UST Section Guidelines for Assessment and Corrective Action

Table 2
Soil Analytical Data
Volatile Organic Compounds
Parcel 53, Howard Rebecca Mull Property, (Mull Brothers Grocery and House)
Morganton, Burke County, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bls)	VOC 8260B (µg/kg)											
			1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Acetone	Benzene	Ethyl-benzene	Isopropyl-Ether	Isopropyl-benzene	Xylenes (Total)	Methly-tert-Butyl Ether	Naphth-alene	4-Isopropyl-toluene	1,2,3-Trichloro-propane	Toluene
Industrial/Commercial MSCC			***20,440,000***	***20,440,000***	***360,000,000***	***164,000***	***40,000,000***	***4,088,000***	***40,880,000***	***81,760,000***	***245,280,000***	***8,176,000***	***NE***	***NE***	***32,000,000***
Residential MSCC			***782,000***	***782,000***	***14,000,000***	***18,000***	***1,560,000***	***156,000***	***1,564,000***	***3,129,000***	***9,385,000***	***313,000***	***NE***	***NE***	***1,200,000***
Soil-to-Groundwater MSCC			***8,500***	***8,300***	***24,000***	***5.6***	***4,900***	***370***	***1,700***	***4,600***	***16,000***	***160***	***NE***	***NE***	***4,300***
P-53-SB-1	12/8/2010	5 - 6	<10	<10	27	<3.1	<5.2	<5.2	<10	<10	<5.2	<5.2	<16	<5.2	<5.2
P-53-SB-2	12/8/2010	7 - 9	<9.9	<9.9	42	<3	<5	<5	<9.9	<9.9	<5	<5	<15	<5	<5
P-53-SB-3	12/8/2010	5 - 7	<9.9	<9.9	36	<3	<5	<5	<9.9	<9.9	<5	<5	<15	<5	<5
P-53-SB-4	12/8/2010	3 - 5	<8.9	<8.9	55	<2.7	<4.4	<4.4	<8.9	<8.9	<4.4	<4.4	<13	<4.4	<4.4
P-53-SB-5	12/8/2010	6 - 7	<9.4	<9.4	30	<2.8	<4.7	<4.7	<9.4	<9.4	<4.7	<4.7	<14	<4.7	<4.7
P-53-SB-6	12/8/2010	4 - 5	<10	<10	41	<3.1	<5.1	<5.1	<10	<10	<5.1	<5.1	<15	<5.1	<5.1
P-53-SB-7	12/8/2010	4 - 5	<9.8	<9.8	13J	<3.0	<4.9	<4.9	<9.8	<9.8	<4.9	<4.9	<15	<4.9	<4.9
P-53-SB-8	12/8/2010	4 - 5	<8.7	<8.7	12J	<2.6	<4.3	<4.3	<8.7	<8.7	<4.3	<4.3	<14	<4.3	<4.3

NOTES:
All results and standards are in micrograms per kilogram (µg/kg)
MSCC = Maximum soil contaminant concentration
VOC = Volatile organic compounds
ft bls = feet below ground surface
NE = standard has not been established.
NA = not analyzed
J = indicates an estimated value
B = indicates analyte found in associated method blank
Concentrations which exceed the Soil-to-Groundwater MSCC are highlighted in **BOLD**
Concentrations which exceed the Residential MSCC are highlighted
Concentrations which exceed the Industrial/Commercial MSCC are highlighted

FIGURES



0' 500' 1000' 1500'

1" = 1000'

7.5 Minute Quadrangle
North Carolina, 1983
Photorevised 1993

VICINITY MAP

Parcel #53, Howard & Rebecca Mull Property
(Historic Mull Brother's Grocery & House)
Morganton, Burke County, NC

DRAWING NAME: J:\NCDOT\Burke\FIG1			DATE: 1/14/11
SCALE: 1 INCH = 1,000 FEET	DR TLH	CHK HPC	REV

PREPARED FOR:

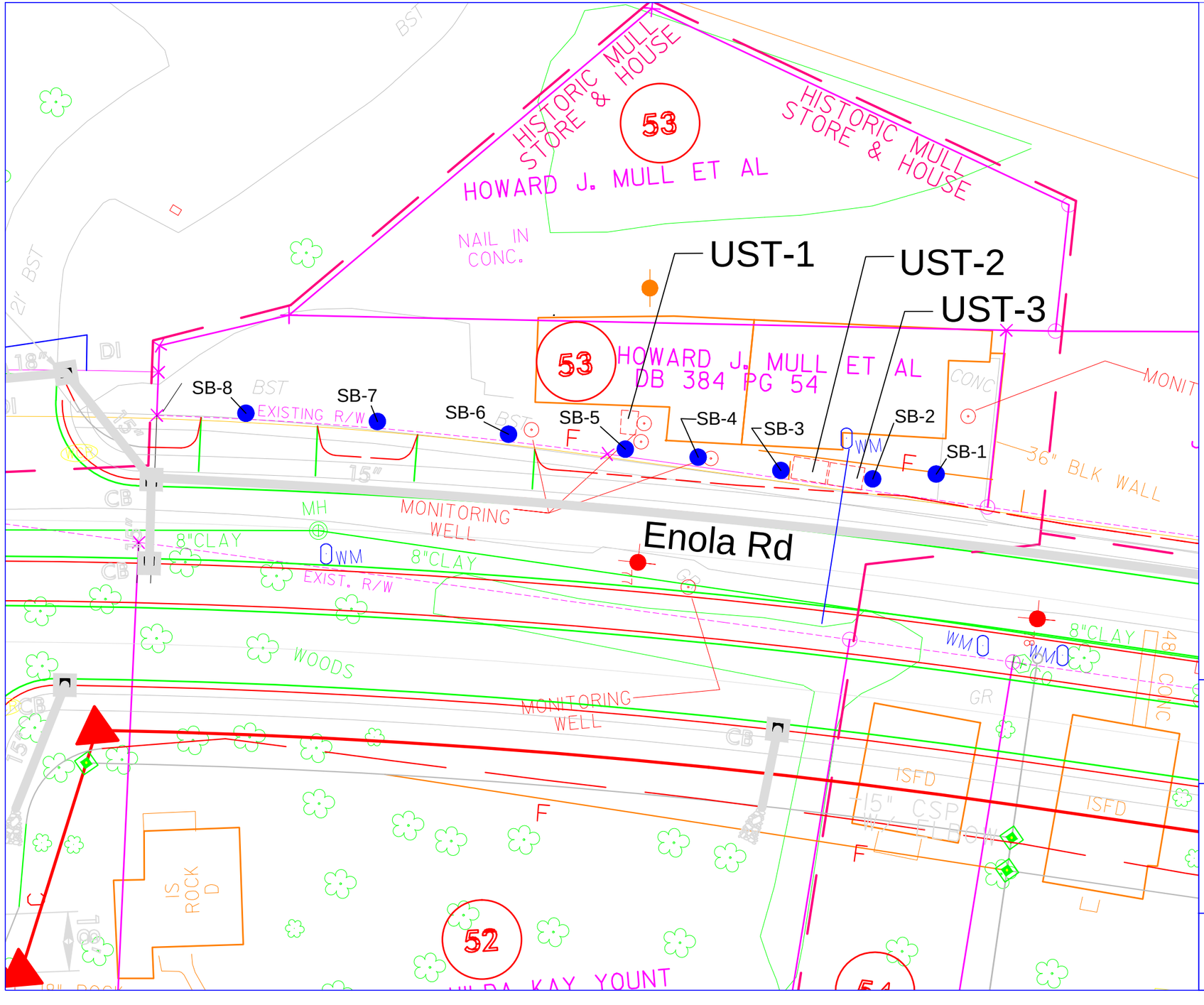
NC Department Of Transportation
Geotechnical Unit
WBS Element: 34832.1.1
TIP# U-2551

Prepared By:

amec
338 N Elm Ave
Suite 112
Greensboro, NC 27401
(336) 691-5398

Figure:

Figure 1



LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- C — Cut Line
- F — Fill Line
- Soil Boring Location December 2010
- Probable UST
- Underground Gas Line
- Underground Water Line

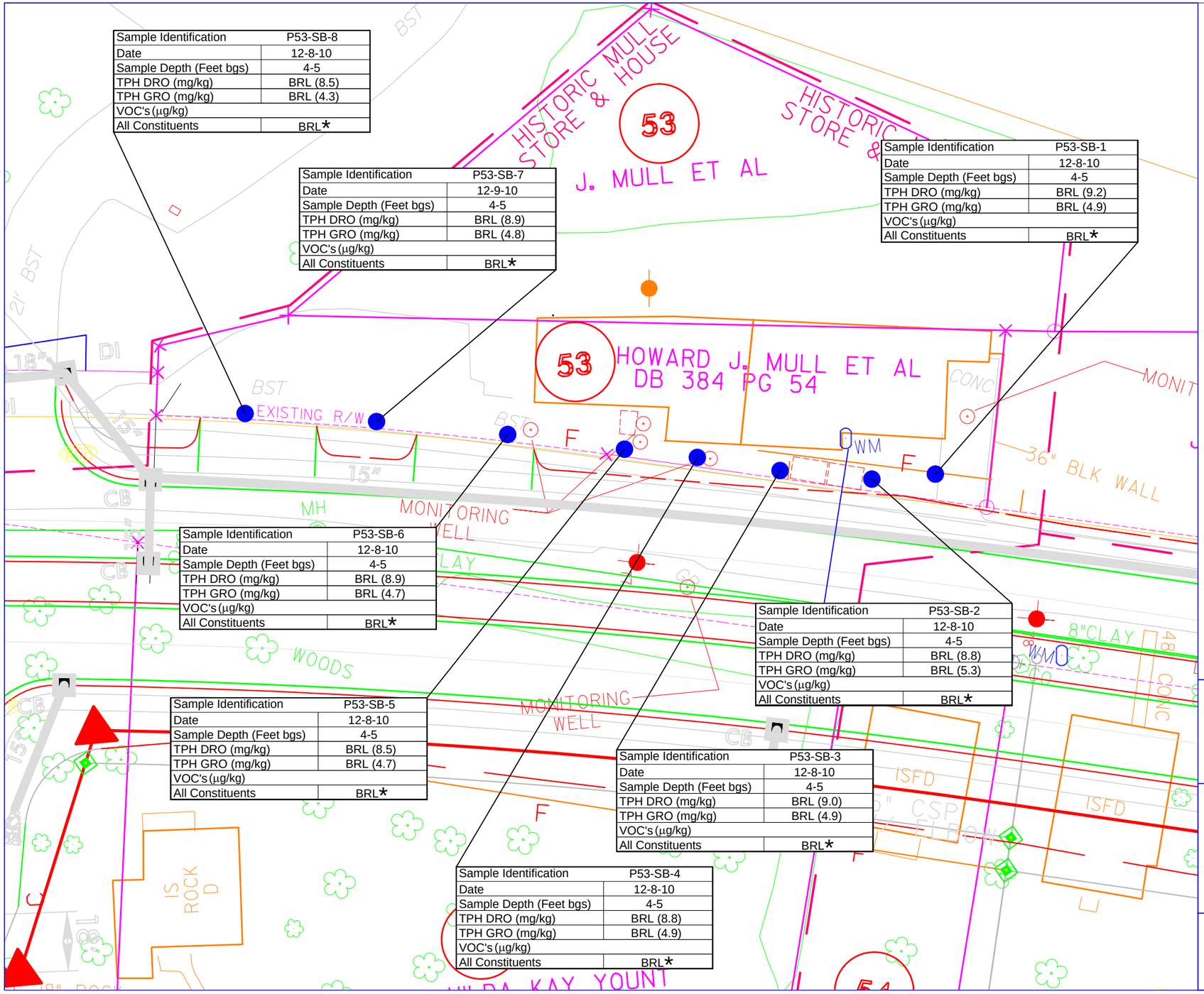
0' 15' 30' 45'

1" = 30'

Figure 2
Parcel #53 Howard & Rebecca Mull Property
Site Map With Sample Locations

NC Department of Transportation
Geotechnical Unit
WBS Element: 34832.1.1
TIP# U-2551

amec



Sample Identification	P53-SB-8
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.5)
TPH GRO (mg/kg)	BRL (4.3)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-7
Date	12-9-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.9)
TPH GRO (mg/kg)	BRL (4.8)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-1
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (9.2)
TPH GRO (mg/kg)	BRL (4.9)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-6
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.9)
TPH GRO (mg/kg)	BRL (4.7)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-2
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.8)
TPH GRO (mg/kg)	BRL (5.3)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-5
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.5)
TPH GRO (mg/kg)	BRL (4.7)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-3
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (9.0)
TPH GRO (mg/kg)	BRL (4.9)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P53-SB-4
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.8)
TPH GRO (mg/kg)	BRL (4.9)
VOC's (µg/kg)	
All Constituents	BRL*

LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- C — Cut Line
- F — Fill Line
- Soil Boring Location December 2010
- Probable UST
- Underground Gas Line
- Underground Water Line
- BRL* — Below Reporting Limits (low levels of acetone were detected in each sample – suspected Laboratory contamination)

0' 15' 30' 45'

1" = 30'

Figure 3
Parcel #53 Howard & Rebecca Mull Property
Site Map With Analytical Data

NC Department of Transportation
Geotechnical Unit
WBS Element: 34832.1.1
TIP# U-2551

amec

APPENDIX A

PHOTO LOG

Photo 1

Viewing North from the southeastern portion of the site.

Photo 2

Viewing North from the eastern portion of the site. The underground gas line marked with yellow paint runs parallel with the UST. The underground water line marked with blue paint crosses the UST.

amec

338 North Elm Street, Suite 112
Greensboro, NC 27401

W.O. 562112551
PROCESSED TLH
DATE December 2010
PAGE

PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 53, 113 Enola Rd, Morganton, NC

Photo 3

Viewing UST with fuel port.

Photo 4

Viewing southwest; geoprobe pushing first boring.

amec

338 North Elm Street, Suite 112
Greensboro, NC 27401

W.O.	562112551
PROCESSED	TLH
DATE	December 2010
PAGE	

PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 53, 113 Enola Rd, Morganton, NC

APPENDIX B

BORING LOGS

AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P53-SB1	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1	0		Brown/Black, Well Sorted, Sand, Medium, Damp
1-3	0		Orange, Well Sorted, Clayey Silt, Damp
3-5	0		Orange, Well Sorted, Clayey Silt, Damp
5-6	0		Orange, Well Sorted, Clayey Silt, Damp
6-7	0		Orange/White, Well Sorted, Sand, Medium, Damp
7-10	0		Orange/Brown, Well Sorted, Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P53-SB2	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1.5	0		Brown, Well Sorted, Sand, Medium, Damp
1.5-3	0		Orange, Well Sorted, Clay, Damp
3-5	0		Orange, Well Sorted, Clay, Damp
5-6	0		Tan, Well Sorted, Sand, Medium, Damp
6-8	0		Orange, Well Sorted, Clayey Silt, Damp
8-11	0		Orange, Well Sorted, Clayey Silt, Damp
11-12	0		Tan, Well Sorted, Sand, Medium, Damp
12-15	0		Orange, Well Sorted, Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P53-SB3	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1.5	0		Brown/Black, Well Sorted, Sand, Medium, Damp
1.5-3	0		Orange, Well Sorted, Clay, Damp
3-5	0		Tan, Well Sorted, Sand, Medium, Damp
5-7	0		Orange, Well Sorted, Clayey Silt, Damp
7-9	0		Orange, Well Sorted, Clayey Silt, Damp
9-10	0		Orange, Well Sorted, Clayey Silt, Damp
10-12	0		Red, Well Sorted, Clay, Damp
12-15	0		Orange, Well Sorted, Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P53-SB4	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1.5	0		Orange, Well Sorted, Sand, Medium, Damp
1.5-3	0		Orange, Well Sorted, Clayey Silt, Damp
3-5	0		Red, Well Sorted, Clayey Silt, Damp
5-7	0		Red, Well Sorted, Clay, Damp
7-10	0		Red, Well Sorted, Clay, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P53-SB5	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1.5	0		Brown, Well Sorted, Clayey Silt, Damp
1.5-3	0		Red, Well Sorted, Clayey Silt, Damp
3-5	0		Red, Well Sorted, Clayey Silt, Damp
5-7	0		Red, Well Sorted, Clayey Silt, Damp
7-9	0		Red, Well Sorted, Clayey Silt, Damp
9-11	0		Orange/White, Well Sorted, Sand, Medium, Damp
11-13	0		Orange, Well Sorted, Clayey Silt, Damp
13-15	0		Orange, Well Sorted, Clayey Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P53-SB6	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-1.5	0		Brown, Well Sorted, Clayey Silt, Damp
1.5-3	0		Orange, Well Sorted, Clayey Silt, Damp
3-5	0		Orange, Well Sorted, Clayey Silt, Damp
5-7	0		Orange, Well Sorted, Clayey Silt, Damp
7-9	0		Orange, Well Sorted, Clay, Damp
9-10	0		Orange/White, Well Sorted, Sand, Medium, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.
BORING LOG

Boring/Well No.: P53-SB7	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-3	0		Red, Well Sorted, Clay, Damp
3-3.5	0		Partially Weathered Rock (PWR)
3.5-6	0		Orange, Well Sorted, Clayey Silt, Damp
6-8	0		Yellow, Well Sorted, Clayey Silt, Damp
8-10	0		Yellow, Well Sorted, Silt, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P53-SB8	**Site Name: Parcel 53**
Date: 12-8-10	**Location: Morganton, Burke Co., NC**
Job No.: 562112551	**Sample Method: Direct Push**
AMEC Rep: Troy Holzschuh	**Drilling Method: Direct Push**
Drilling Company: CSI	**Driller Name/Cert #: Keith Speece - 2856-A**
Remarks:	

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-2.5	0		Red, Well Sorted, Clay, Damp
2.5-4	0		Red, Well Sorted, Clayey Silt, Damp
4-6	0		Red, Well Sorted, Clayey Silt, Damp
6-7	0		Orange, Well Sorted, Sand, Medium, Damp
7-8	0		Tan, Well Sorted, Sand, Medium, Damp
8-10	0		Pink/White, Well Sorted, Sand, Medium, Damp

WELL CONSTRUCTION DETAILS (If Applicable)

Well Type/Diameter:	Outer Casing Interval:
Total Depth:	Outer Casing Diameter:
Screen Interval:	Bentonite Interval:
Sand Interval:	Slot Size:
Grout Interval:	Static Water Level:

APPENDIX C

GEOPHYSICAL SURVEY REPORT

Schnabel ENGINEERING

January 4, 2011

Ms. Helen Corley, LG
AMEC Earth and Environmental of North Carolina, Inc.
101 W. Friendly Avenue, Suite 603
Greensboro, NC 27401

RE:
State Project: U-2551
WBS Element: 34832.1.1
County: Burke
Description: Morganton – SR 1922 (Enola Road)/SR 1924 (Old NC 18) from SR 2026 (Arnold Drive) to NC 18 (South Sterling Street)

Subject: **Project 09210013.32 Report on Geophysical Surveys**
Parcel 53, Burke County, North Carolina

Dear Ms. Corley:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we conducted on the subject property. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes two 11x17 color figures and three 8.5x11 color figures.

INTRODUCTION

The work described in this report was conducted on December 1 and 2, 2010, by Schnabel under our 2009 contract with the NCDOT. The work was conducted over the accessible areas of the parcel as indicated by the NCDOT to support their environmental assessment of the subject property. Photographs of the parcel are included on Figure 1. The property is located on the west side of Enola Road approximately 180 feet north of Brick Street in Morganton, NC. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (USTs) in the accessible areas of the right-of-way and/or easement.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. The EM61 metal detector is used to locate metal objects buried up to about eight feet below ground surface. Ground-penetrating radar (GPR) investigations of selected EM61 anomalies, including areas of reinforced concrete, were conducted using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. Photographs of the equipment used are shown on Figure 2.

FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (monitoring wells, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced one to two feet apart in orthogonal directions over areas of reinforced concrete and anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of USTs. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

DISCUSSION OF RESULTS

The contoured EM61 data collected over Parcel 53 are shown on Figures 3 and 4. The EM61 early time gate results are plotted on Figure 3. The early time gate data provide the more sensitive detection of metal objects. Figure 4 shows the difference between the response of the top and bottom coils of the EM61 instrument (differential response). The difference is taken to remove the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as USTs.

The early time gate and differential results show anomalies apparently caused by reinforced concrete, buried utilities, or known site features (Figures 3 and 4). The GPR data collected near the southeastern corner of the building indicate the presence of a probable UST (probable UST No. 1) located approximately 30 to 40 feet north of the southeastern corner of the building. The GPR data collected over the EM61 anomaly on the east side of the building indicate the presence of two probable USTs (probable USTs Nos. 2 and 3) located approximately 30 to 40 feet southeast of the northeastern building corner. These two probable USTs were marked in the field as one large UST and then interpreted as two separate USTs during further review of the GPR data. The probable USTs are inside the limits of the planned right-of way and/or easement. Example GPR images showing the reflections from the probable USTs are shown on Figures 3 and 4. Figures 3 and 4 also include the location of the probable USTs as marked in the field. The GPR data indicate that probable UST No. 1 is buried approximately 3.0 to 4.0 feet below ground surface and is about 5 feet in diameter and about 9 feet long, equivalent to a capacity of about 1,500 gallons. The GPR data indicate that probable USTs Nos. 2 and 3 on Parcel 53 are buried approximately 2.5 to 3.5 feet below ground surface. Probable UST No. 2 is about 5 feet in diameter and about 12 feet long, equivalent to a capacity of about 2,000 gallons; probable UST No. 3 is about 5 feet in diameter and about 9 feet long, equivalent to a capacity of about 1,500 gallons. Photographs of the probable UST locations, as marked in the field, are included on Figure 5.

CONCLUSIONS

Our evaluation of the geophysical data collected on the subject property on Project U-2551 in Morganton, NC indicates the following:

The geophysical data indicate the presence of three probable USTs on Parcel 53 located within the right-of-way and/or easement. Probable UST No. 1 is located within approximately 30 to 40 feet northeast of the southeastern corner of the building. Probable USTs Nos. 2 and 3 are located within approximately 30 to 40 feet southeast of the northeastern corner of the building. Probable UST No. 1 is about 1,500-gallon capacity and is buried about 3.0 to 4.0 feet below ground surface. Probable UST No. 2 is about 2,000-gallon capacity, and probable UST No. 3 is about 1,500-gallon capacity. Probable UST Nos. 2 and 3 are buried about 2.5 to 3.5 feet below ground surface.

LIMITATIONS

These services have been performed and this report prepared for AMEC Earth and Environmental of North Carolina, Inc. and the North Carolina Department of Transportation in accordance with generally accepted guidelines for conducting geophysical surveys. It is generally recognized that the results of geophysical surveys are non-unique and may not represent actual subsurface conditions.

We appreciate the opportunity to have provided these services. Please call if you need additional information or have any questions.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC

Jeremy S. Strohmeyer, LG
Project Manager

Edward D. Billington, LG
Senior Vice President

JW:JS:NB
Attachments: Figures (5)
FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.32 (U-2551, BURKE COUNTY)\REPORT\PARCEL 53\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 53 (U-2551).DOCX

Parcel 53 – Howard and Rebecca Mull Property, looking north

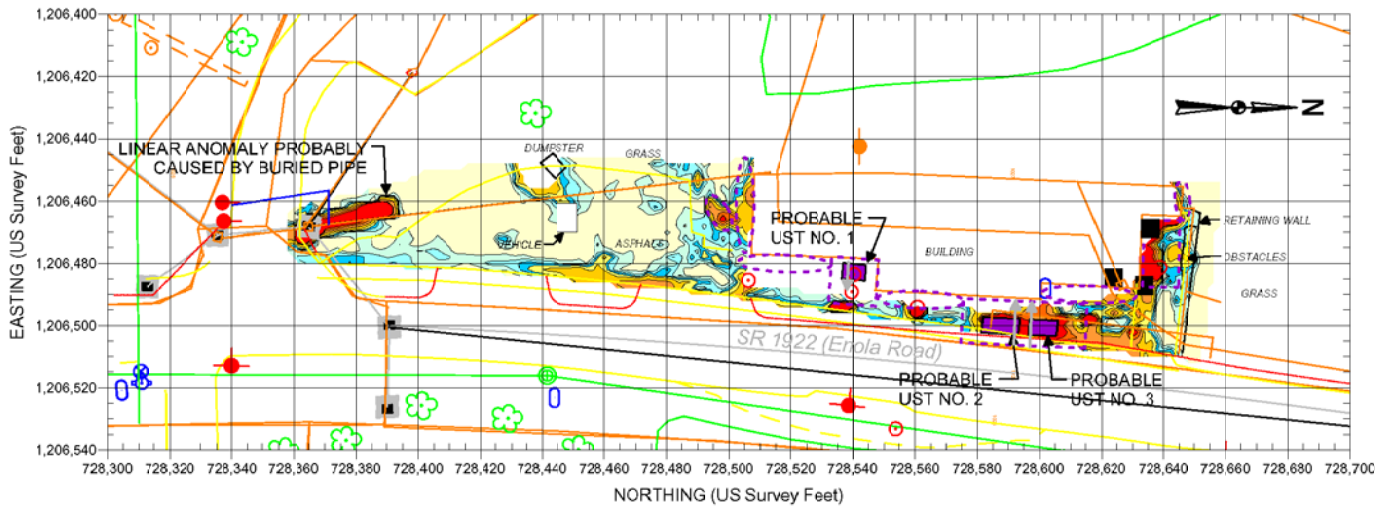
Parcel 53 – Howard and Rebecca Mull Property, looking southwest

Schnabel ENGINEERING	STATE PROJECT U-2551 NC DEPT. OF TRANSPORTATION BURKE CO., NORTH CAROLINA PROJECT NO. 09210013.32	PARCEL 53 SITE PHOTOS FIGURE 1

Geonics EM61-MK2

GSSI SIR-3000

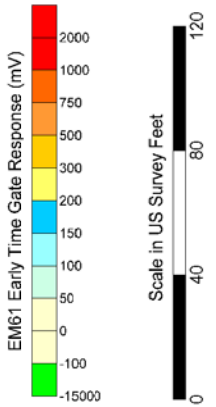
Schnabel ENGINEERING	STATE PROJECT U-2551 NC DEPT. OF TRANSPORTATION BURKE CO., NORTH CAROLINA PROJECT NO. 09210013.32	PHOTOS OF GEOPHYSICAL EQUIPMENT USED FIGURE 2

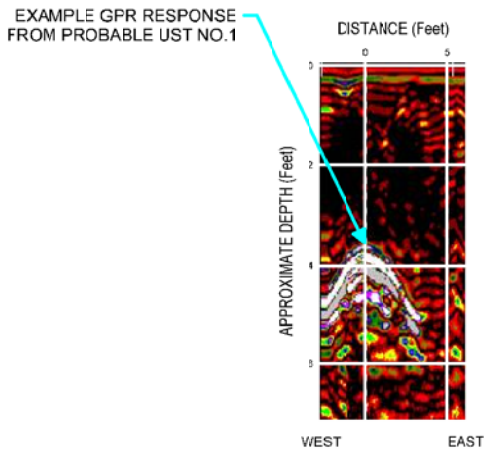


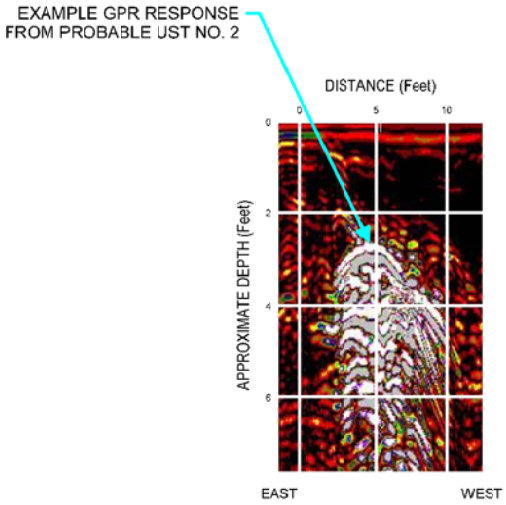
EXPLANATION

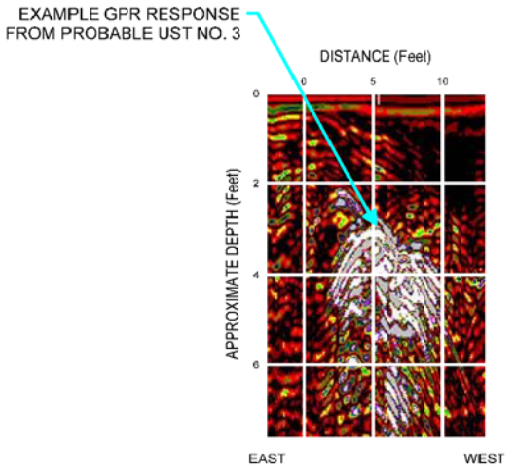
- SIGN
- UTILITY POLE
- GUY WIRE
- MISCELLANEOUS METALLIC OBJECT
- UTILITY LID
- LIGHT POLE
- STORM SEWER INLET
- UST LID
- DOT PROPOSED R/W
- DOT PROPOSED UTILITY EASEMENT
- PROPERTY LINE
- UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])
- EXAMPLE GPR LINE LOCATION
- GPR SURVEY GRID
- LOCATION OF UST MARKED ON SITE

REF.: NCDOT FILES: u2551_rcy_psh_10.dgn & u2551_rdy_psh_11.dgn (FOR SOME SITE FEATURES)







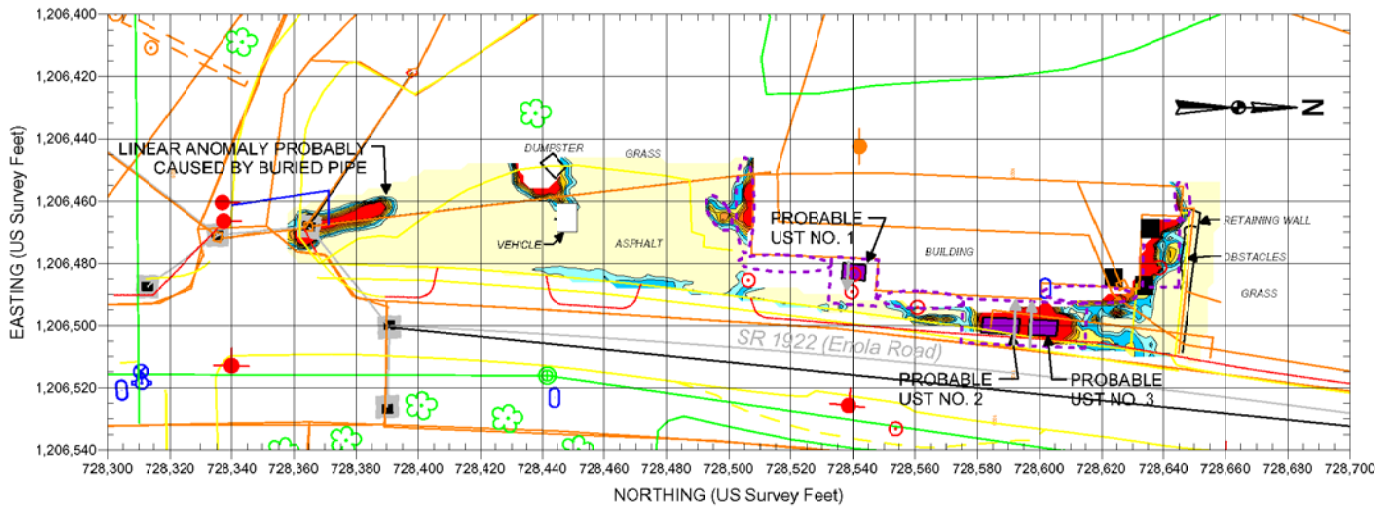


Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on December 1, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on December 2, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT U-2551
BURKE COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 092100?3.32

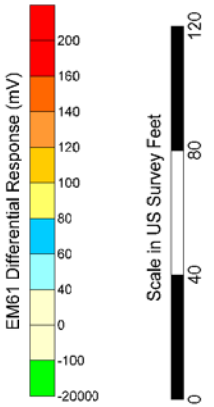
PARCEL 53
EARLY TIME GATE RESPONSE
FIGURE 3



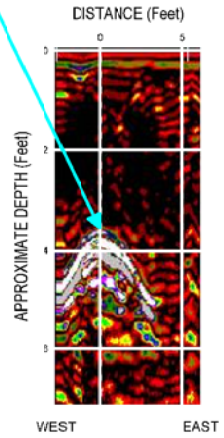
EXPLANATION

- SIGN
- UTILITY POLE
- GUY WIRE
- MISCELLANEOUS METALLIC OBJECT
- UTILITY LID
- LIGHT POLE
- STORM SEWER INLET
- UST LID
- DOT PROPOSED R/W
- DOT PROPOSED UTILITY EASEMENT
- PROPERTY LINE
- UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])
- EXAMPLE GPR LINE LOCATION
- GPR SURVEY GRID
- LOCATION OF UST MARKED ON SITE

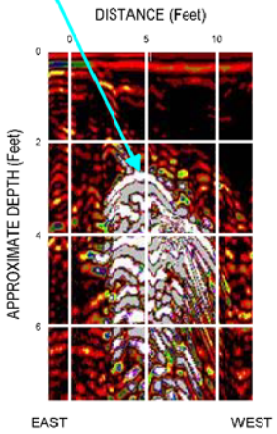
REF.: NCDOT FILES: u2551_rcy_psh_10.dgn & u2551_rdy_psh_11.dgn (FOR SOME SITE FEATURES)



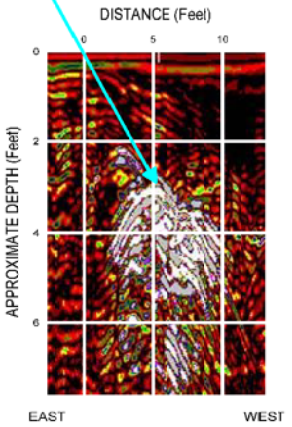
EXAMPLE GPR RESPONSE FROM PROBABLE UST NO.1



EXAMPLE GPR RESPONSE FROM PROBABLE UST NO. 2



EXAMPLE GPR RESPONSE FROM PROBABLE UST NO. 3



Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as drums and tanks. The EM data were collected on December 1, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on December 2, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT U-2551
BURKE COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 092100?3.32

PARCEL 53
DIFFERENTIAL RESPONSE
FIGURE 4

Parcel 53 – Howard & Rebecca Mull Property, looking north. Photo shows approximate marked location of probable UST No. 1 near the southeastern building corner.

Parcel 53 – Howard & Rebecca Mull Property, looking north. Photo shows approximate marked location of probable UST's Nos. 2 and 3 (marked as one UST) near the front of the building.

Schnabel ENGINEERING	STATE PROJECT U-2551 NC DEPT. OF TRANSPORTATION BURKE CO., NORTH CAROLINA PROJECT NO. 09210013.32	PHOTOS OF PROBABLE UST LOCATIONS PARCEL 53 FIGURE 5

APPENDIX D

LABORATORY ANALYTICAL RESULTS

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735

Case Narrative

12/20/2010

AMEC Earth & Env. Inc.(DOT Gree)
Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No.: WBS #34832.1.1
Lab Submittal Date: 12/10/2010
Prism Work Order: 0120334

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

President/Project Manager

Reviewed By

Data Qualifiers Key Reference:

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
M	Matrix spike outside of the control limits.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

12/20/2010

Prism Work Order: 0120334

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P-53-SB-1 (5-6)	0120334-01	Solid	12/08/10	12/10/10
P-53-SB-2 (7-9)	0120334-02	Solid	12/08/10	12/10/10
P-53-SB-3 (5-7)	0120334-03	Solid	12/08/10	12/10/10
P-53-SB-4 (3-5)	0120334-04	Solid	12/08/10	12/10/10
P-53-SB-5 (6-7)	0120334-05	Solid	12/08/10	12/10/10
P-53-SB-6 (4-5)	0120334-06	Solid	12/08/10	12/10/10
P-53-SB-7 (4-5)	0120334-07	Solid	12/08/10	12/10/10
P-53-SB-8 (4-5)	0120334-08	Solid	12/08/10	12/10/10

Samples received in good condition at 2.5 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-1 (5-6)
Prism Sample ID: 0120334-01
Prism Work Order: 0120334
Time Collected: 12/08/10 10:00
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	12/16/10 2:30	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*92 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.9	0.64	50	*8015C	12/14/10 20:12	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*166 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**75.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	5.2	1.7	1	8260B	12/16/10 17:22	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	5.2	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	5.2	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	5.2	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	10	1.7	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	5.2	2.2	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	5.2	1.9	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	5.2	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	5.2	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	5.2	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	10	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	16	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
Acetone	**27**	**ug/kg dry**	**21**	**2.2**	**1**	**8260B**	**12/16/10 17:22**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	100	4.0	1	8260B	12/16/10 17:22	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	100	2.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Benzene	BRL	ug/kg dry	3.1	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-1 (5-6)
Prism Sample ID: 0120334-01
Prism Work Order: 0120334
Time Collected: 12/08/10 10:00
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	5.2	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
Bromoform	BRL	ug/kg dry	5.2	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	5.2	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	10	2.7	1	8260B	12/16/10 17:22	KLA	P0L0324
Chloroform	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	5.2	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	5.2	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	5.2	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	16	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 17:22	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	10	2.8	1	8260B	12/16/10 17:22	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	52	1.6	1	8260B	12/16/10 17:22	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	21	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	5.2	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	5.2	2.8	1	8260B	12/16/10 17:22	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	16	1.9	1	8260B	12/16/10 17:22	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	10	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	5.2	1.1	1	8260B	12/16/10 17:22	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	16	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
Styrene	BRL	ug/kg dry	5.2	1.0	1	8260B	12/16/10 17:22	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	21	1.4	1	8260B	12/16/10 17:22	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
Toluene	BRL	ug/kg dry	5.2	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	5.2	1.0	1	8260B	12/16/10 17:22	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	5.2	1.0	1	8260B	12/16/10 17:22	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	5.2	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	5.2	1.5	1	8260B	12/16/10 17:22	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	10	3.5	1	8260B	12/16/10 17:22	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 17:22	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*70-130*
Dibromofluoromethane	*106 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-1 (5-6)
Prism Sample ID: 0120334-01
Prism Work Order: 0120334
Time Collected: 12/08/10 10:00
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				*104 %*	*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-2 (7-9)
Prism Sample ID: 0120334-02
Prism Work Order: 0120334
Time Collected: 12/08/10 10:15
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	12/15/10 21:12	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*87 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	0.69	50	*8015C	12/14/10 20:43	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*118 %*		*55-129*	
General Chemistry Parameters									
% Solids	**79.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	5.0	1.7	1	8260B	12/16/10 2:38	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.9	1.6	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	5.0	2.1	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	5.0	1.8	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	5.0	1.5	1	8260B	12/16/10 2:38	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 2:38	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.9	1.5	1	8260B	12/16/10 2:38	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	15	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
Acetone	**42**	**ug/kg dry**	**20**	**2.2**	**1**	**8260B**	**12/16/10 2:38**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	99	3.8	1	8260B	12/16/10 2:38	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	99	2.2	1	8260B	12/16/10 2:38	KLA	P0L0324
Benzene	BRL	ug/kg dry	3.0	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-2 (7-9)
Prism Sample ID: 0120334-02
Prism Work Order: 0120334
Time Collected: 12/08/10 10:15
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
Bromoform	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	9.9	1.0	1	8260B	12/16/10 2:38	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	5.0	1.5	1	8260B	12/16/10 2:38	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	9.9	2.6	1	8260B	12/16/10 2:38	KLA	P0L0324
Chloroform	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	9.9	1.0	1	8260B	12/16/10 2:38	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 2:38	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	15	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.9	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	9.9	2.6	1	8260B	12/16/10 2:38	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	50	1.5	1	8260B	12/16/10 2:38	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.9	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 2:38	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	5.0	2.7	1	8260B	12/16/10 2:38	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	15	1.8	1	8260B	12/16/10 2:38	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	9.9	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 2:38	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	15	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Styrene	BRL	ug/kg dry	5.0	0.97	1	8260B	12/16/10 2:38	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324
Toluene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 2:38	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	5.0	0.98	1	8260B	12/16/10 2:38	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	5.0	0.99	1	8260B	12/16/10 2:38	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 2:38	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	9.9	3.4	1	8260B	12/16/10 2:38	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 2:38	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-2 (7-9)
Prism Sample ID: 0120334-02
Prism Work Order: 0120334
Time Collected: 12/08/10 10:15
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*104 %*		*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-3 (5-7)
Prism Sample ID: 0120334-03
Prism Work Order: 0120334
Time Collected: 12/08/10 10:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.0	1.4	1	*8015C	12/15/10 21:47	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*89 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.9	0.63	50	*8015C	12/14/10 21:14	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*118 %*		*55-129*	
General Chemistry Parameters									
% Solids	**77.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	5.0	1.6	1	8260B	12/16/10 3:10	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.9	1.6	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	5.0	2.1	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	5.0	1.8	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	5.0	1.5	1	8260B	12/16/10 3:10	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 3:10	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.9	1.5	1	8260B	12/16/10 3:10	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	15	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
Acetone	**36**	**ug/kg dry**	**20**	**2.2**	**1**	**8260B**	**12/16/10 3:10**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	99	3.8	1	8260B	12/16/10 3:10	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	99	2.2	1	8260B	12/16/10 3:10	KLA	P0L0324
Benzene	BRL	ug/kg dry	3.0	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-3 (5-7)
Prism Sample ID: 0120334-03
Prism Work Order: 0120334
Time Collected: 12/08/10 10:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
Bromoform	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	9.9	1.0	1	8260B	12/16/10 3:10	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	5.0	1.5	1	8260B	12/16/10 3:10	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	9.9	2.6	1	8260B	12/16/10 3:10	KLA	P0L0324
Chloroform	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	9.9	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	9.9	1.0	1	8260B	12/16/10 3:10	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 3:10	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	15	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.9	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	9.9	2.6	1	8260B	12/16/10 3:10	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	50	1.5	1	8260B	12/16/10 3:10	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.9	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 3:10	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	5.0	2.7	1	8260B	12/16/10 3:10	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	15	1.8	1	8260B	12/16/10 3:10	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	9.9	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 3:10	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	15	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Styrene	BRL	ug/kg dry	5.0	0.97	1	8260B	12/16/10 3:10	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324
Toluene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 3:10	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	5.0	0.98	1	8260B	12/16/10 3:10	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	5.0	0.99	1	8260B	12/16/10 3:10	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 3:10	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	9.9	3.4	1	8260B	12/16/10 3:10	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	9.9	1.3	1	8260B	12/16/10 3:10	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*99 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-3 (5-7)
Prism Sample ID: 0120334-03
Prism Work Order: 0120334
Time Collected: 12/08/10 10:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*104 %*		*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-4 (3-5)
Prism Sample ID: 0120334-04
Prism Work Order: 0120334
Time Collected: 12/08/10 11:25
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	12/15/10 22:23	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*88 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.9	0.63	50	*8015C	12/14/10 21:44	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*120 %*		*55-129*	
General Chemistry Parameters									
% Solids	**79.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.4	1.5	1	8260B	12/16/10 3:42	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 3:42	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	4.4	0.93	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	8.9	1.5	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	4.4	1.9	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	8.9	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.4	1.6	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	8.9	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	8.9	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	4.4	0.92	1	8260B	12/16/10 3:42	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	8.9	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	13	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Acetone	**55**	**ug/kg dry**	**18**	**1.9**	**1**	**8260B**	**12/16/10 3:42**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	89	3.4	1	8260B	12/16/10 3:42	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	89	2.0	1	8260B	12/16/10 3:42	KLA	P0L0324
Benzene	BRL	ug/kg dry	2.7	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-4 (3-5)
Prism Sample ID: 0120334-04
Prism Work Order: 0120334
Time Collected: 12/08/10 11:25
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 3:42	KLA	P0L0324
Bromoform	BRL	ug/kg dry	4.4	0.97	1	8260B	12/16/10 3:42	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	8.9	0.91	1	8260B	12/16/10 3:42	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 3:42	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	8.9	2.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Chloroform	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 3:42	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	8.9	0.92	1	8260B	12/16/10 3:42	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	4.4	0.93	1	8260B	12/16/10 3:42	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	13	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	8.9	1.0	1	8260B	12/16/10 3:42	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	8.9	2.4	1	8260B	12/16/10 3:42	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	44	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	18	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	8.9	0.97	1	8260B	12/16/10 3:42	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	8.9	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.4	0.93	1	8260B	12/16/10 3:42	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	4.4	2.4	1	8260B	12/16/10 3:42	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	13	1.6	1	8260B	12/16/10 3:42	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	8.9	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	4.4	0.99	1	8260B	12/16/10 3:42	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	13	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
Styrene	BRL	ug/kg dry	4.4	0.87	1	8260B	12/16/10 3:42	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	18	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	8.9	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
Toluene	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 3:42	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.4	0.88	1	8260B	12/16/10 3:42	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.4	0.89	1	8260B	12/16/10 3:42	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 3:42	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	8.9	3.0	1	8260B	12/16/10 3:42	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	8.9	1.2	1	8260B	12/16/10 3:42	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*99 %*	*70-130*
Dibromofluoromethane	*106 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-4 (3-5)
Prism Sample ID: 0120334-04
Prism Work Order: 0120334
Time Collected: 12/08/10 11:25
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*104 %*		*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-5 (6-7)
Prism Sample ID: 0120334-05
Prism Work Order: 0120334
Time Collected: 12/08/10 11:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.5	1.4	1	*8015C	12/15/10 22:58	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*96 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.7	0.61	50	*8015C	12/14/10 23:18	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*117 %*		*55-129*	
General Chemistry Parameters									
% Solids	**82.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.7	1.6	1	8260B	12/16/10 4:14	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	4.7	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	4.7	0.98	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.4	1.5	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	4.7	2.0	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.4	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.7	1.7	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	9.4	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	4.7	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	4.7	1.4	1	8260B	12/16/10 4:14	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.4	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	9.4	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	4.7	0.97	1	8260B	12/16/10 4:14	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.4	1.4	1	8260B	12/16/10 4:14	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	14	1.4	1	8260B	12/16/10 4:14	KLA	P0L0324
Acetone	**30**	**ug/kg dry**	**19**	**2.0**	**1**	**8260B**	**12/16/10 4:14**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	94	3.6	1	8260B	12/16/10 4:14	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	94	2.1	1	8260B	12/16/10 4:14	KLA	P0L0324
Benzene	BRL	ug/kg dry	2.8	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-5 (6-7)
Prism Sample ID: 0120334-05
Prism Work Order: 0120334
Time Collected: 12/08/10 11:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
Bromoform	BRL	ug/kg dry	4.7	1.0	1	8260B	12/16/10 4:14	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	9.4	0.96	1	8260B	12/16/10 4:14	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	4.7	1.4	1	8260B	12/16/10 4:14	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	9.4	2.4	1	8260B	12/16/10 4:14	KLA	P0L0324
Chloroform	BRL	ug/kg dry	4.7	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	9.4	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	4.7	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	9.4	0.97	1	8260B	12/16/10 4:14	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	4.7	0.98	1	8260B	12/16/10 4:14	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	14	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	4.7	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.4	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	9.4	2.5	1	8260B	12/16/10 4:14	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	47	1.4	1	8260B	12/16/10 4:14	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	19	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.4	1.0	1	8260B	12/16/10 4:14	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.7	0.98	1	8260B	12/16/10 4:14	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	4.7	2.5	1	8260B	12/16/10 4:14	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	14	1.7	1	8260B	12/16/10 4:14	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	9.4	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	4.7	1.0	1	8260B	12/16/10 4:14	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	14	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Styrene	BRL	ug/kg dry	4.7	0.92	1	8260B	12/16/10 4:14	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	19	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Toluene	BRL	ug/kg dry	4.7	1.1	1	8260B	12/16/10 4:14	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.7	0.93	1	8260B	12/16/10 4:14	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.7	0.94	1	8260B	12/16/10 4:14	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	4.7	1.3	1	8260B	12/16/10 4:14	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	9.4	3.2	1	8260B	12/16/10 4:14	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	9.4	1.2	1	8260B	12/16/10 4:14	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*106 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-5 (6-7)
Prism Sample ID: 0120334-05
Prism Work Order: 0120334
Time Collected: 12/08/10 11:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*104 %*		*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-6 (4-5)
Prism Sample ID: 0120334-06
Prism Work Order: 0120334
Time Collected: 12/08/10 11:55
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.9	1.4	1	*8015C	12/16/10 3:41	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*95 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.7	0.61	50	*8015C	12/14/10 23:48	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*167 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**78.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	5.1	1.7	1	8260B	12/16/10 4:47	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	5.1	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	5.1	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	5.1	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	10	1.7	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	5.1	2.1	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	5.1	1.9	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	5.1	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	5.1	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	5.1	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	10	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	15	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
Acetone	**41**	**ug/kg dry**	**21**	**2.2**	**1**	**8260B**	**12/16/10 4:47**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	100	3.9	1	8260B	12/16/10 4:47	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	100	2.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Benzene	BRL	ug/kg dry	3.1	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-6 (4-5)
Prism Sample ID: 0120334-06
Prism Work Order: 0120334
Time Collected: 12/08/10 11:55
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	5.1	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
Bromoform	BRL	ug/kg dry	5.1	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	10	1.0	1	8260B	12/16/10 4:47	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	5.1	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	10	2.7	1	8260B	12/16/10 4:47	KLA	P0L0324
Chloroform	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	5.1	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	5.1	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	5.1	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	15	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 4:47	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	10	2.7	1	8260B	12/16/10 4:47	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	51	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	21	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	5.1	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	5.1	2.8	1	8260B	12/16/10 4:47	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	15	1.9	1	8260B	12/16/10 4:47	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	10	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	5.1	1.1	1	8260B	12/16/10 4:47	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	15	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Styrene	BRL	ug/kg dry	5.1	1.0	1	8260B	12/16/10 4:47	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	21	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
Toluene	BRL	ug/kg dry	5.1	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	5.1	1.0	1	8260B	12/16/10 4:47	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	5.1	1.0	1	8260B	12/16/10 4:47	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	5.1	1.4	1	8260B	12/16/10 4:47	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	5.1	1.5	1	8260B	12/16/10 4:47	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	10	3.5	1	8260B	12/16/10 4:47	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 4:47	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-6 (4-5)
Prism Sample ID: 0120334-06
Prism Work Order: 0120334
Time Collected: 12/08/10 11:55
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*103 %*		*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-7 (4-5)
Prism Sample ID: 0120334-07
Prism Work Order: 0120334
Time Collected: 12/08/10 12:10
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.9	1.4	1	*8015C	12/16/10 4:17	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*102 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	0.63	50	*8015C	12/15/10 0:19	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*159 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**78.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.9	1.6	1	8260B	12/16/10 5:19	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	4.9	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.8	1.6	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	4.9	2.1	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.8	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.9	1.8	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	4.9	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	4.9	1.5	1	8260B	12/16/10 5:19	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	9.8	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 5:19	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	9.8	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.8	1.5	1	8260B	12/16/10 5:19	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	9.8	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	15	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
Acetone	**13 J**	**ug/kg dry**	**20**	**2.1**	**1**	**8260B**	**12/16/10 5:19**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	98	3.8	1	8260B	12/16/10 5:19	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	98	2.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Benzene	BRL	ug/kg dry	3.0	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-7 (4-5)
Prism Sample ID: 0120334-07
Prism Work Order: 0120334
Time Collected: 12/08/10 12:10
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	4.9	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
Bromoform	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	9.8	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	9.8	1.0	1	8260B	12/16/10 5:19	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	9.8	2.6	1	8260B	12/16/10 5:19	KLA	P0L0324
Chloroform	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	9.8	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	9.8	1.0	1	8260B	12/16/10 5:19	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 5:19	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	15	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.8	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	9.8	2.6	1	8260B	12/16/10 5:19	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	49	1.5	1	8260B	12/16/10 5:19	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.8	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 5:19	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	4.9	2.7	1	8260B	12/16/10 5:19	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	15	1.8	1	8260B	12/16/10 5:19	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	9.8	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 5:19	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	15	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Styrene	BRL	ug/kg dry	4.9	0.96	1	8260B	12/16/10 5:19	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324
Toluene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 5:19	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.9	0.97	1	8260B	12/16/10 5:19	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.9	0.98	1	8260B	12/16/10 5:19	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 5:19	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	9.8	3.4	1	8260B	12/16/10 5:19	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	9.8	1.3	1	8260B	12/16/10 5:19	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*106 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-7 (4-5)
Prism Sample ID: 0120334-07
Prism Work Order: 0120334
Time Collected: 12/08/10 12:10
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				*103 %*	*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-8 (4-5)
Prism Sample ID: 0120334-08
Prism Work Order: 0120334
Time Collected: 12/08/10 12:30
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.5	1.4	1	*8015C	12/15/10 23:33	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*77 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.3	0.56	50	*8015C	12/15/10 0:50	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*127 %*		*55-129*	
General Chemistry Parameters									
% Solids	**81.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/15/10 16:15**	**JAB**	**P0L0336**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.3	1.4	1	8260B	12/16/10 5:52	KLA	P0L0324
1,1,1-Trichloroethane	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
1,1,2-Trichloroethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
1,1-Dichloroethane	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
1,1-Dichloroethylene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
1,1-Dichloropropylene	BRL	ug/kg dry	4.3	0.91	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2,3-Trichlorobenzene	BRL	ug/kg dry	8.7	1.4	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2,3-Trichloropropane	BRL	ug/kg dry	4.3	1.8	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2,4-Trichlorobenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2,4-Trimethylbenzene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.3	1.6	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2-Dibromoethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2-Dichlorobenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2-Dichloroethane	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
1,2-Dichloropropane	BRL	ug/kg dry	4.3	1.3	1	8260B	12/16/10 5:52	KLA	P0L0324
1,3,5-Trimethylbenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
1,3-Dichlorobenzene	BRL	ug/kg dry	8.7	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
1,3-Dichloropropane	BRL	ug/kg dry	4.3	0.89	1	8260B	12/16/10 5:52	KLA	P0L0324
1,4-Dichlorobenzene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
2,2-Dichloropropane	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	8.7	1.3	1	8260B	12/16/10 5:52	KLA	P0L0324
2-Chlorotoluene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
4-Chlorotoluene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
4-Isopropyltoluene	BRL	ug/kg dry	13	1.3	1	8260B	12/16/10 5:52	KLA	P0L0324
Acetone	**12 J**	**ug/kg dry**	**17**	**1.9**	**1**	**8260B**	**12/16/10 5:52**	**KLA**	**P0L0324**
Acrolein	BRL	ug/kg dry	87	3.3	1	8260B	12/16/10 5:52	KLA	P0L0324
Acrylonitrile	BRL	ug/kg dry	87	1.9	1	8260B	12/16/10 5:52	KLA	P0L0324
Benzene	BRL	ug/kg dry	2.6	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Bromobenzene	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-8 (4-5)
Prism Sample ID: 0120334-08
Prism Work Order: 0120334
Time Collected: 12/08/10 12:30
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Bromodichloromethane	BRL	ug/kg dry	4.3	0.99	1	8260B	12/16/10 5:52	KLA	P0L0324
Bromoform	BRL	ug/kg dry	4.3	0.94	1	8260B	12/16/10 5:52	KLA	P0L0324
Bromomethane	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Carbon disulfide	BRL	ug/kg dry	8.7	0.88	1	8260B	12/16/10 5:52	KLA	P0L0324
Carbon Tetrachloride	BRL	ug/kg dry	4.3	1.3	1	8260B	12/16/10 5:52	KLA	P0L0324
Chlorobenzene	BRL	ug/kg dry	4.3	0.98	1	8260B	12/16/10 5:52	KLA	P0L0324
Chloroethane	BRL	ug/kg dry	8.7	2.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Chloroform	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Chloromethane	BRL	ug/kg dry	8.7	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
Dibromochloromethane	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Dibromomethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Dichlorodifluoromethane	BRL	ug/kg dry	8.7	0.90	1	8260B	12/16/10 5:52	KLA	P0L0324
Ethylbenzene	BRL	ug/kg dry	4.3	0.90	1	8260B	12/16/10 5:52	KLA	P0L0324
Hexachlorobutadiene	BRL	ug/kg dry	13	1.0	1	8260B	12/16/10 5:52	KLA	P0L0324
Isopropyl Ether	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Isopropylbenzene (Cumene)	BRL	ug/kg dry	8.7	0.97	1	8260B	12/16/10 5:52	KLA	P0L0324
m,p-Xylenes	BRL	ug/kg dry	8.7	2.3	1	8260B	12/16/10 5:52	KLA	P0L0324
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	43	1.3	1	8260B	12/16/10 5:52	KLA	P0L0324
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	17	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Methyl Isobutyl Ketone	BRL	ug/kg dry	8.7	0.94	1	8260B	12/16/10 5:52	KLA	P0L0324
Methylene Chloride	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.3	0.90	1	8260B	12/16/10 5:52	KLA	P0L0324
Naphthalene	BRL	ug/kg dry	4.3	2.3	1	8260B	12/16/10 5:52	KLA	P0L0324
n-Butylbenzene	BRL	ug/kg dry	13	1.6	1	8260B	12/16/10 5:52	KLA	P0L0324
n-Propylbenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
o-Xylene	BRL	ug/kg dry	4.3	0.96	1	8260B	12/16/10 5:52	KLA	P0L0324
sec-Butylbenzene	BRL	ug/kg dry	13	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Styrene	BRL	ug/kg dry	4.3	0.84	1	8260B	12/16/10 5:52	KLA	P0L0324
tert-Butylbenzene	BRL	ug/kg dry	17	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Tetrachloroethylene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
Toluene	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.3	0.86	1	8260B	12/16/10 5:52	KLA	P0L0324
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.3	0.87	1	8260B	12/16/10 5:52	KLA	P0L0324
Trichloroethylene	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Trichlorofluoromethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 5:52	KLA	P0L0324
Vinyl acetate	BRL	ug/kg dry	8.7	3.0	1	8260B	12/16/10 5:52	KLA	P0L0324
Vinyl chloride	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 5:52	KLA	P0L0324

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County
Parcel 53
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-53-SB-8 (4-5)
Prism Sample ID: 0120334-08
Prism Work Order: 0120334
Time Collected: 12/08/10 12:30
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*103 %*		*76-129*	

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0324 - 5035										
Blank (P0L0324-BLK1)				Prepared: 12/15/10 Analyzed: 12/16/10						
1,1,1,2-Tetrachloroethane	BRL	5.0	ug/kg wet							
1,1,1-Trichloroethane	BRL	5.0	ug/kg wet							
1,1,2,2-Tetrachloroethane	BRL	5.0	ug/kg wet							
1,1,2-Trichloroethane	BRL	5.0	ug/kg wet							
1,1-Dichloroethane	BRL	5.0	ug/kg wet							
1,1-Dichloroethylene	BRL	5.0	ug/kg wet							
1,1-Dichloropropylene	BRL	5.0	ug/kg wet							
1,2,3-Trichlorobenzene	BRL	10	ug/kg wet							
1,2,3-Trichloropropane	BRL	5.0	ug/kg wet							
1,2,4-Trichlorobenzene	BRL	10	ug/kg wet							
1,2,4-Trimethylbenzene	BRL	10	ug/kg wet							
1,2-Dibromo-3-chloropropane	BRL	5.0	ug/kg wet							
1,2-Dibromoethane	BRL	5.0	ug/kg wet							
1,2-Dichlorobenzene	BRL	10	ug/kg wet							
1,2-Dichloroethane	BRL	5.0	ug/kg wet							
1,2-Dichloropropane	BRL	5.0	ug/kg wet							
1,3,5-Trimethylbenzene	BRL	10	ug/kg wet							
1,3-Dichlorobenzene	BRL	10	ug/kg wet							
1,3-Dichloropropane	BRL	5.0	ug/kg wet							
1,4-Dichlorobenzene	BRL	10	ug/kg wet							
2,2-Dichloropropane	BRL	5.0	ug/kg wet							
2-Chloroethyl Vinyl Ether	BRL	10	ug/kg wet							
2-Chlorotoluene	BRL	10	ug/kg wet							
4-Chlorotoluene	BRL	10	ug/kg wet							
4-Isopropyltoluene	BRL	15	ug/kg wet							
Acetone	BRL	20	ug/kg wet							
Acrolein	BRL	100	ug/kg wet							
Acrylonitrile	BRL	100	ug/kg wet							
Benzene	BRL	3.0	ug/kg wet							
Bromobenzene	BRL	5.0	ug/kg wet							
Bromochloromethane	BRL	5.0	ug/kg wet							
Bromodichloromethane	BRL	5.0	ug/kg wet							
Bromoform	BRL	5.0	ug/kg wet							
Bromomethane	BRL	10	ug/kg wet							
Carbon disulfide	BRL	10	ug/kg wet							
Carbon Tetrachloride	BRL	5.0	ug/kg wet							
Chlorobenzene	BRL	5.0	ug/kg wet							
Chloroethane	BRL	10	ug/kg wet							
Chloroform	BRL	5.0	ug/kg wet							
Chloromethane	BRL	10	ug/kg wet							
cis-1,2-Dichloroethylene	BRL	5.0	ug/kg wet							
cis-1,3-Dichloropropylene	BRL	5.0	ug/kg wet							
Dibromochloromethane	BRL	5.0	ug/kg wet							
Dibromomethane	BRL	5.0	ug/kg wet							
Dichlorodifluoromethane	BRL	10	ug/kg wet							
Ethylbenzene	BRL	5.0	ug/kg wet							

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0324 - 5035										
Blank (P0L0324-BLK1)				Prepared: 12/15/10 Analyzed: 12/16/10						
Hexachlorobutadiene	BRL	15	ug/kg wet							
Isopropyl Ether	BRL	5.0	ug/kg wet							
Isopropylbenzene (Cumene)	BRL	10	ug/kg wet							
m,p-Xylenes	BRL	10	ug/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	50	ug/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	20	ug/kg wet							
Methyl Isobutyl Ketone	BRL	10	ug/kg wet							
Methylene Chloride	BRL	10	ug/kg wet							
Methyl-tert-Butyl Ether	BRL	5.0	ug/kg wet							
Naphthalene	BRL	5.0	ug/kg wet							
n-Butylbenzene	BRL	15	ug/kg wet							
n-Propylbenzene	BRL	10	ug/kg wet							
o-Xylene	BRL	5.0	ug/kg wet							
sec-Butylbenzene	BRL	15	ug/kg wet							
Styrene	BRL	5.0	ug/kg wet							
tert-Butylbenzene	BRL	20	ug/kg wet							
Tetrachloroethylene	BRL	10	ug/kg wet							
Toluene	BRL	5.0	ug/kg wet							
trans-1,2-Dichloroethylene	BRL	5.0	ug/kg wet							
trans-1,3-Dichloropropylene	BRL	5.0	ug/kg wet							
Trichloroethylene	BRL	5.0	ug/kg wet							
Trichlorofluoromethane	BRL	5.0	ug/kg wet							
Vinyl acetate	BRL	10	ug/kg wet							
Vinyl chloride	BRL	10	ug/kg wet							
Surrogate: 4-Bromofluorobenzene	*48.4*		*ug/L*	*50.0*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*51.4*		*ug/L*	*50.0*		*103*	*84-123*			
Surrogate: Toluene-d8	*51.9*		*ug/L*	*50.0*		*104*	*76-129*			

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0324 - 5035										
LCS (P0L0324-BS1)				Prepared & Analyzed: 12/15/10						
1,1-Dichloroethylene	52.8	5.0	ug/kg wet	50.0		106	67-149			
Benzene	45.1	3.0	ug/kg wet	50.0		90	74-127			
Chlorobenzene	47.5	5.0	ug/kg wet	50.0		95	74-118			
Toluene	46.6	5.0	ug/kg wet	50.0		93	71-129			
Trichloroethylene	49.9	5.0	ug/kg wet	50.0		100	75-133			
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/L*	*50.0*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*50.4*		*ug/L*	*50.0*		*101*	*84-123*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.0*		*102*	*76-129*			
LCS Dup (P0L0324-BSD1)				Prepared & Analyzed: 12/15/10						
1,1-Dichloroethylene	53.4	5.0	ug/kg wet	50.0		107	67-149	1	200	
Benzene	45.3	3.0	ug/kg wet	50.0		91	74-127	0.5	200	
Chlorobenzene	48.2	5.0	ug/kg wet	50.0		96	74-118	1	200	
Toluene	47.2	5.0	ug/kg wet	50.0		94	71-129	1	200	
Trichloroethylene	50.8	5.0	ug/kg wet	50.0		102	75-133	2	200	
Surrogate: 4-Bromofluorobenzene	*51.8*		*ug/L*	*50.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*50.4*		*ug/L*	*50.0*		*101*	*84-123*			
Surrogate: Toluene-d8	*51.8*		*ug/L*	*50.0*		*104*	*76-129*			
Matrix Spike (P0L0324-MS1)	**Source: 0120334-01**			Prepared & Analyzed: 12/15/10						
1,1-Dichloroethylene	58.2	6.6	ug/kg dry	66.0	BRL	88	54-162			
Benzene	50.1	4.0	ug/kg dry	66.0	BRL	76	60-135			
Chlorobenzene	51.9	6.6	ug/kg dry	66.0	BRL	79	57-125			
Toluene	51.2	6.6	ug/kg dry	66.0	BRL	78	57-135			
Trichloroethylene	51.8	6.6	ug/kg dry	66.0	BRL	79	38-164			
Surrogate: 4-Bromofluorobenzene	*51.3*		*ug/L*	*50.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*50.8*		*ug/L*	*50.0*		*102*	*84-123*			
Surrogate: Toluene-d8	*51.8*		*ug/L*	*50.0*		*104*	*76-129*			

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0324 - 5035										
Matrix Spike Dup (P0L0324-MSD1)	**Source: 0120334-01**			Prepared: 12/15/10 Analyzed: 12/16/10						
1,1-Dichloroethylene	55.7	6.6	ug/kg dry	66.0	BRL	84	54-162	4	22	
Benzene	48.0	4.0	ug/kg dry	66.0	BRL	73	60-135	4	20	
Chlorobenzene	50.0	6.6	ug/kg dry	66.0	BRL	76	57-125	4	14	
Toluene	49.0	6.6	ug/kg dry	66.0	BRL	74	57-135	4	22	
Trichloroethylene	49.2	6.6	ug/kg dry	66.0	BRL	75	38-164	5	18	
Surrogate: 4-Bromofluorobenzene	*50.1*		*ug/L*	*50.0*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*51.2*		*ug/L*	*50.0*		*102*	*84-123*			
Surrogate: Toluene-d8	*51.8*		*ug/L*	*50.0*		*104*	*76-129*			

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0268 - 5035										
Blank (P0L0268-BLK1)				Prepared & Analyzed: 12/14/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.45*		*mg/kg wet*	*5.00*		*109*	*55-129*			
LCS (P0L0268-BS1)				Prepared & Analyzed: 12/14/10						
Gasoline Range Organics	47.4	5.0	mg/kg wet	50.0		95	67-116			
Surrogate: a,a,a-Trifluorotoluene	*5.60*		*mg/kg wet*	*5.00*		*112*	*55-129*			
LCS Dup (P0L0268-BSD1)				Prepared & Analyzed: 12/14/10						
Gasoline Range Organics	48.4	5.0	mg/kg wet	50.0		97	67-116	2	200	
Surrogate: a,a,a-Trifluorotoluene	*5.50*		*mg/kg wet*	*5.00*		*110*	*55-129*			
Matrix Spike (P0L0268-MS1)		**Source: 0120334-01**		Prepared & Analyzed: 12/14/10						
Gasoline Range Organics	91.7	6.6	mg/kg dry	66.0	BRL	139	57-113			M
Surrogate: a,a,a-Trifluorotoluene	*11.2*		*mg/kg dry*	*6.60*		*170*	*55-129*			*SR*
Matrix Spike Dup (P0L0268-MSD1)		**Source: 0120334-01**		Prepared & Analyzed: 12/14/10						
Gasoline Range Organics	94.3	6.6	mg/kg dry	66.0	BRL	143	57-113	3	23	M
Surrogate: a,a,a-Trifluorotoluene	*11.7*		*mg/kg dry*	*6.60*		*178*	*55-129*			*SR*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0295 - 3545A										
Blank (P0L0295-BLK1)				Prepared: 12/14/10 Analyzed: 12/15/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.36*		*mg/kg wet*	*1.60*		*85*	*49-124*			
LCS (P0L0295-BS1)				Prepared: 12/14/10 Analyzed: 12/15/10						
Diesel Range Organics	57.9	7.0	mg/kg wet	80.0		72	55-109			
Surrogate: o-Terphenyl	*1.93*		*mg/kg wet*	*1.60*		*121*	*49-124*			
LCS Dup (P0L0295-BSD1)				Prepared: 12/14/10 Analyzed: 12/15/10						
Diesel Range Organics	54.3	7.0	mg/kg wet	79.9		68	55-109	7	200	
Surrogate: o-Terphenyl	*2.02*		*mg/kg wet*	*1.60*		*127*	*49-124*			*SR*

AMEC Earth & Env. Inc.(DOT Gree)
Attn: Helen Corley
338 North Elm St. Suite 112
Greensboro, NC 27401

Project: NCDOT: Burke County Parcel 53
Project No: WBS #34832.1.1

Prism Work Order: 0120334
Time Submitted: 12/10/10 10:43:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0336 - NO PREP										
Blank (P0L0336-BLK1)				Prepared & Analyzed: 12/15/10						
% Solids	100	0.100	% by Weight							

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0120334-01	P0L0295	25.05 g	1 mL	12/14/10
0120334-02	P0L0295	25.02 g	1 mL	12/14/10
0120334-03	P0L0295	25.01 g	1 mL	12/14/10
0120334-04	P0L0295	25.02 g	1 mL	12/14/10
0120334-05	P0L0295	25.01 g	1 mL	12/14/10
0120334-06	P0L0295	25.03 g	1 mL	12/14/10
0120334-07	P0L0295	25.05 g	1 mL	12/14/10
0120334-08	P0L0295	25.27 g	1 mL	12/14/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0120334-01	P0L0268	6.68 g	5 mL	12/14/10
0120334-02	P0L0268	5.91 g	5 mL	12/14/10
0120334-03	P0L0268	6.59 g	5 mL	12/14/10
0120334-04	P0L0268	6.46 g	5 mL	12/14/10
0120334-05	P0L0268	6.43 g	5 mL	12/14/10
0120334-06	P0L0268	6.81 g	5 mL	12/14/10
0120334-07	P0L0268	6.57 g	5 mL	12/14/10
0120334-08	P0L0268	7.1 g	5 mL	12/14/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0120334-01	P0L0336	30 g	30 mL	12/15/10
0120334-02	P0L0336	30 g	30 mL	12/15/10
0120334-03	P0L0336	30 g	30 mL	12/15/10
0120334-04	P0L0336	30 g	30 mL	12/15/10
0120334-05	P0L0336	30 g	30 mL	12/15/10
0120334-06	P0L0336	30 g	30 mL	12/15/10
0120334-07	P0L0336	30 g	30 mL	12/15/10
0120334-08	P0L0336	30 g	30 mL	12/15/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0120334-01	P0L0324	6.38 g	5 mL	12/15/10
0120334-02	P0L0324	6.33 g	5 mL	12/15/10
0120334-03	P0L0324	6.47 g	5 mL	12/15/10
0120334-04	P0L0324	7.06 g	5 mL	12/15/10
0120334-05	P0L0324	6.43 g	5 mL	12/15/10
0120334-06	P0L0324	6.21 g	5 mL	12/15/10
0120334-07	P0L0324	6.47 g	5 mL	12/15/10
0120334-08	P0L0324	7.11 g	5 mL	12/15/10

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Burke County
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Helen Corley Chas. Area
Address: Same

Client Company Name: AMEC E+E
Report To/Contact Name: Helen Corley
Reporting Address: 338 N Elm St
Greensboro, NC 27401
Phone: 336-691-5398 Fax (Yes) (No): _____
Email (Yes) (No) Email Address: helen.corley@amec.com
EDD Type: PDF ✓ Excel ✓ Other _____
Site Location Name: Parcel 53
Site Location Physical Address: Morganton NC

Purchase Order No./Billing Reference WBS: 34832.1.1
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 2.5	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		✓
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ____ USACE ____ FL ____ NC ✓
SC ____ OTHER ____ N/A ____
Water Chlorinated: YES ____ NO ____
Samples Iced Upon Collection: YES ✓ NO ____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED GRO / 5035	ANALYSES REQUESTED DRO	ANALYSES REQUESTED 8260 / 5035	REMARKS	PRISM LAB ID NO.
P-53-SB-1 (5-6)	12-8-10	1000	Soil	VOA/G	5/3	VOA/G	none methanol	X	X	X		01
P-53-SB-2 (7-9)		1015										02
P-53-SB-3 (5-7)		1040										03
P-53-SB-4 (3-5)		1125										04
P-53-SB-5 (6-7)		1140										05
P-53-SB-6 (4-5)		1155										06
P-53-SB-7 (4-5)		1210										07
P-53-SB-8 (4-5)		1230										08

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Troy L Holzschuh Sampled By (Print Name) Troy L. Holzschuh Affiliation AMEC

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Troy L Holzschuh	Received By: (Signature)	12-10-10	
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 12-10-10	10:43

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☒ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. 0120334

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐	☐ NC ☐ SC ☐

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS