

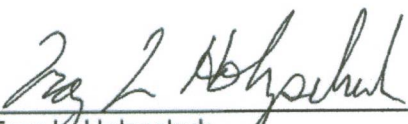


**NC Department of Transportation
Preliminary Site Assessment
State Project: U-2551
WBS Element: 34832.1.1**

**Earl C. Edward Property
(Tobacco Barn #2)
Parcel #61
January 14, 2011**

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





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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 Earl C. Edward Property (the Site) to be effected by a road improvement project along Old NC 18 and Old Shelby Rd. The Site, which is located on 403 Old NC 18, currently operates as a gas station and convenience store called Tobacco Barn #2. It is identified as Parcel #61 within the NCDOT U-2551 design project. The property is located on the northeastern corner of the intersection of Old NC 18 and Old Shelby Rd, north of I-40, which 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 Earl C. Edward Property due to the Underground Storage Tank (UST) section registry showing that three USTs are currently on site, with additional tanks previously removed in 1992. Soil contamination was encountered during the UST removal and the property has since been remediated. This PSA was performed to determine if soils remain or have since been impacted by petroleum compounds and volatile organic compounds as a result of past and present uses of the property within the proposed expanded right-of-way (ROW).

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

1.1 Site Location and History

The Earl C. Edward Property parcel is located on the northeastern corner of the intersection of Old NC 18 and Old Shelby Rd, north of I-40 in 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 4,000 gallons and two gasoline tanks, with 8,000 and 10,000 gallons in capacity were installed at Tobacco Barn #2 at 401 Old Shelby Rd. on October 18, 1991. All three tanks are currently operational according to the NCDENR Database. AMEC also reviewed the NCDENR Incident Management Database and noted that was no other information associated with this address. There were two USTs mentioned in the NCDOT RFP as being previously removed from this parcel but AMEC discovered that they were associated with nearby address and not Parcel #61.

1.2 Site Description

The Site is currently operating as a gas station with convenience store and grill. The convenience store and grill are both within one building. The grill occupies the northern end of the building and has a wooden deck for seating. The gas station and convenience store occupies the southern and central portion of the building. The dispensers are sheltered under a detached canopy. The dispensers are in aligned down the center of the canopy each with its on concrete base or island. The proposed DOT project will impact the southern and western property edges of Parcel #61 along Old Shelby Rd and Old NC 18. Three USTs were observed at this facility and are located in a large tank bed south of the canopy and beyond the ROW. The three tanks are positioned perpendicular to the Tobacco barn. Appendix A includes a photo log for Parcel #61. AMEC personnel noted that four monitoring wells were accessible for groundwater measurement. Their depths to water ranged from 39.1 to 42.5 feet below top of casing.

The surrounding properties are residential, commercial, agricultural and municipal. The parcel directly across Old NC 18 and to the south is the Healthy Petz Veterinarian. The properties to the southeast, east and north are residential. The southeastern property has multi-tenant housing. The eastern and northern properties have single family homes. A gas easement runs between Parcel #61 and the property to the north. The property to the west which is directly across Old Shelby Rd belongs to Western Piedmont Community College (WPCC). The WPCC campus contains an animal hospital and agricultural land containing livestock.

2.0 GEOLOGY

2.1 Regional Geology

The Earl C. Edward 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 7 shallow direct push probe soil borings (SB) onsite. Borings were extended until 10 feet (ft) 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 ftbgs.

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.

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 on 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 did not indicate the presence of metallic USTs in the area surveyed. 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 #61. Seven direct push soil borings were conducted within the proposed expanded ROW on Parcel #61, which includes the southern and western parcel edges. 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 including as much area as possible. The first boring P61-SB-1 was placed just on the north end of the parcel. Subsequent soil borings P61-SB-2 through P61-SB-7 were aligned progressing toward the south and east in a staggered pattern. Underground utilities prevented much lateral movement. 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, 2011. 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 PID. The laboratory results with PID readings are tabulated in Table 1.

One soil sample was collected from each of the 7 completed soil borings from Parcel #61. Typically, if impacted soil is identified, then additional soil samples are obtained; however, at Parcel #61 PID readings did not warrant any additional soil samples. Analyses of soil sample P61-SB-1 at the 4 to 5 foot interval did indicate a value of 12 for DRO which slightly exceeds the NC Action Level of 10. Sample P61-SB-1 did not indicate a value greater than 10 for GRO. Results from the remaining soil samples (P61-SB-2 through P61-SB-7) did not report DRO and GRO values above the NC Action Level. 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 significant 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, 2011.

- The property presently operates as a gas station with convenience store.
- NCDENR UST Registered Tanks Database identified the presence of three USTs at the Site. The UST locations are beyond the expanded ROW thus not in the area investigated.
- Seven soil samples were collected from the proposed expanded ROW and analyzed for TPH GRO and DRO.
- There was no field indication of impacted soil. Laboratory analyses of soil samples reported one DRO detection of 12mg/kg, which is considered isolated based on the data. No GRO detections were reported.

6.0 RECOMMENDATIONS

The proposed NCDOT design at this time has minimal impact intended for Parcel 61. NCDOT should remain cautious of intercepting contaminated soil during road construction activities, thus AMEC recommends the following potential action:

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

TABLES

Table 1
Soil Sampling Analytical Results, DRO-GRO
Parcel 61, Earl C. Edward Property, (Tobacco Barn #2)
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
P61-SB-1	12/8/2010	4 - 5	0	12	<4.4
P61-SB-2	12/8/2010	4 - 5	0	<9.0	<4.8
P61-SB-3	12/8/2010	6 - 7	0	<9.6	<5.1
P61-SB-4	12/8/2010	6 - 7	0	<8.6	4.8
P61-SB-5	12/8/2010	4 - 5	0	<8.5	<4.6
P61-SB-6	12/8/2010	4 - 5	0	<8.3	<4.4
P61-SB-7	12/8/2010	4 - 5	0	<8.5	<4.5

NOTES:

bgs = below ground surface; ppm = parts per million

Bold Concentrations Exceed Action Levels

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

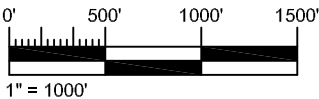
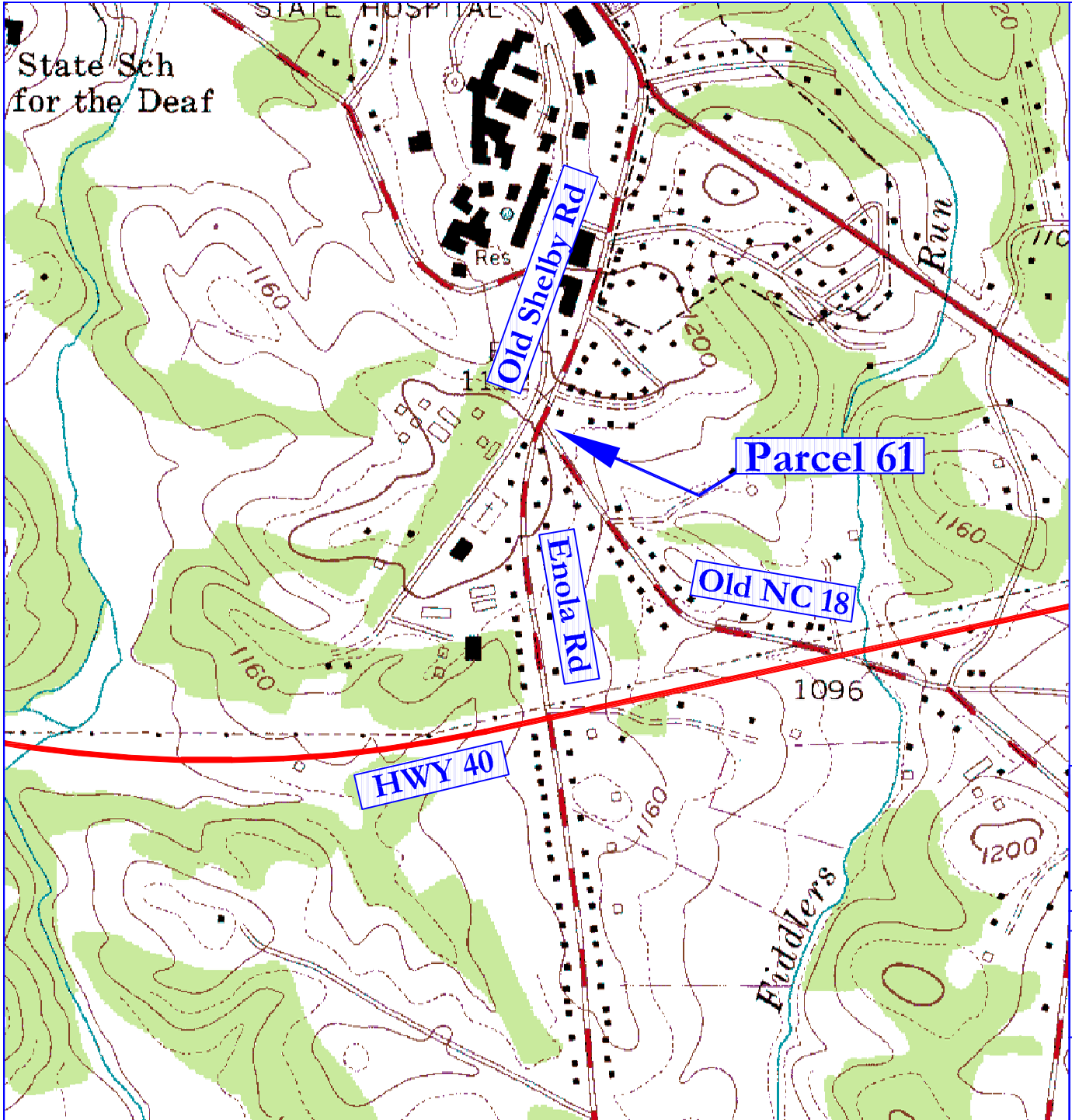
Standards derived from the North Carolina UST Section Guidelines for Assessment and Corrective Action

Table 2
Soil Analytical Data
Volatile Organic Compounds
Parcel 61, Earl C. Edward Property, (Tobacco Barn #2)
Morganton, Burke County, North Carolina

Sample ID Number	Sample Date	Sample Depth (ft bls)	VOC 8260B (µg/kg)												
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acetone	Benzene	Ethylbenzene	Isopropyl-Ether	Isopropylbenzene	Xylenes (Total)	Methyl-tert-Butyl Ether	Naphthalene	4-Isopropyltoluene	1,2,3-Trichloropropane	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-61-SB-1	12/8/2010	4 - 5	<9.1	<9.1	34	<2.7	<4.5	<4.5	<9.1	<9.1	<4.5	<4.5	<14	<4.5	<4.5
P-61-SB-2	12/8/2010	4 - 5	<9.7	<9.7	39	<2.9	<4.9	<4.9	<9.7	<9.7	<4.9	<4.9	<15	<4.9	<4.9
P-61-SB-3	12/8/2010	6 - 7	<10	<10	20	<3	<5	<5	<10	<10	<5	<5	<15	<5	<5
P-61-SB-4	12/8/2010	6 - 7	<9.6	<9.6	10J	<2.9	<4.8	<4.8	<9.6	<9.6	<4.8	<4.8	<14	<4.8	<4.8
P-61-SB-5	12/8/2010	4 - 5	<8.5	<8.5	15J	<2.6	<4.3	<4.3	<8.5	<8.5	<4.3	<4.3	<13	<4.3	<4.3
P-61-SB-6	12/8/2010	4 - 5	<8.7	<8.7	13J	<2.6	<4.4	<4.4	<8.7	<8.7	<4.4	<4.4	<15	<4.4	<4.4
P-61-SB-7	12/8/2010	4 - 5	<9.0	<9.0	21	<2.7	<4.5	<4.5	<9.0	<9.0	<4.5	<4.5	<13	<4.5	<4.5

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



7.5 Minute Quadrangle
 North Carolina, 1983
 Photorevised 1993

VICINITY MAP

Parcel #61, Earl C. Edward Property
 (Tobacco Barn #2)
 Morganton, Burke County, NC

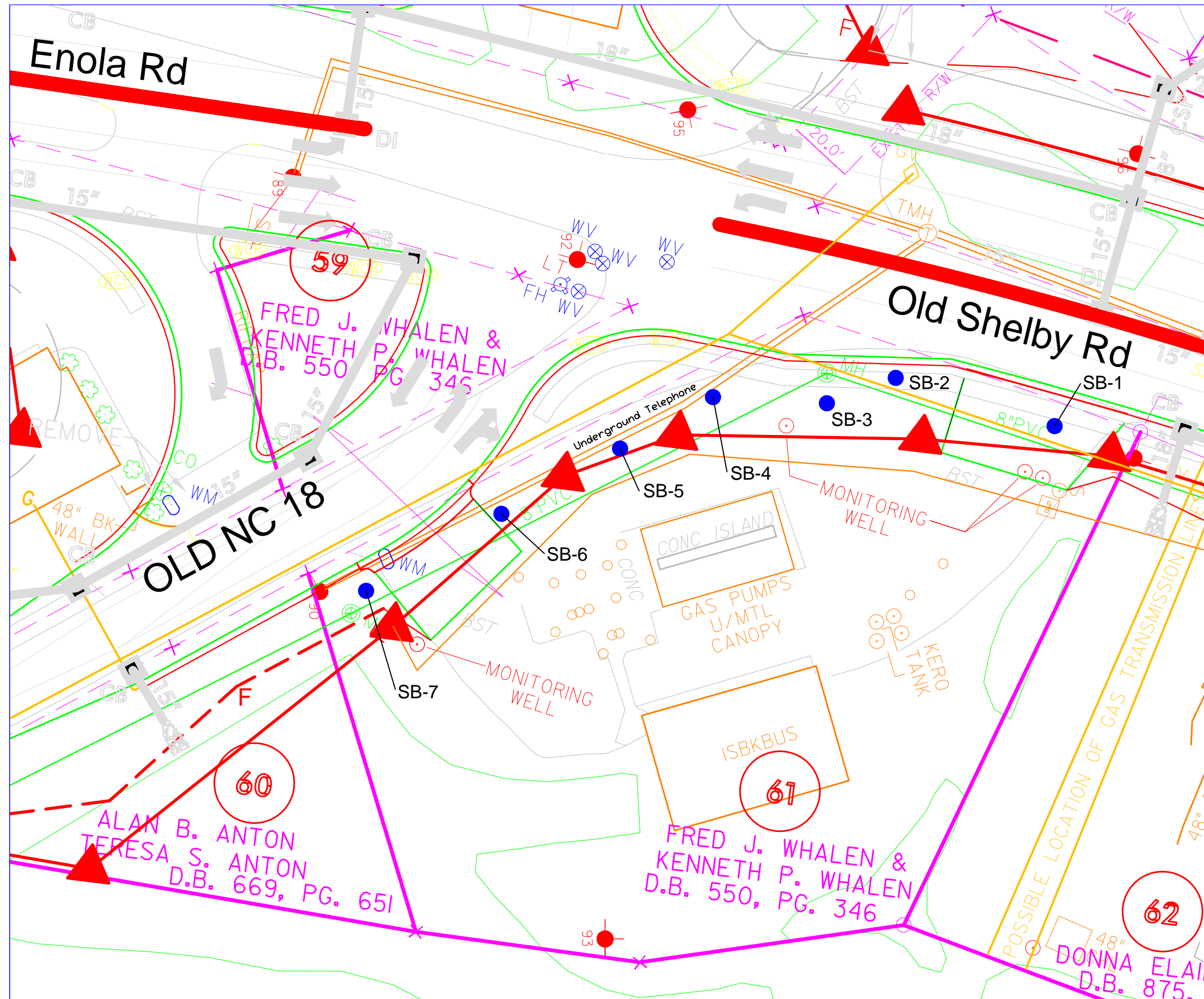
DRAWING NAME: J:\NCDOT\Burke\FIG1 DATE: 1/14/11

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:
 338 N Elm Ave
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 Greensboro, NC 27401
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Figure:
 Figure 1



LEGEND

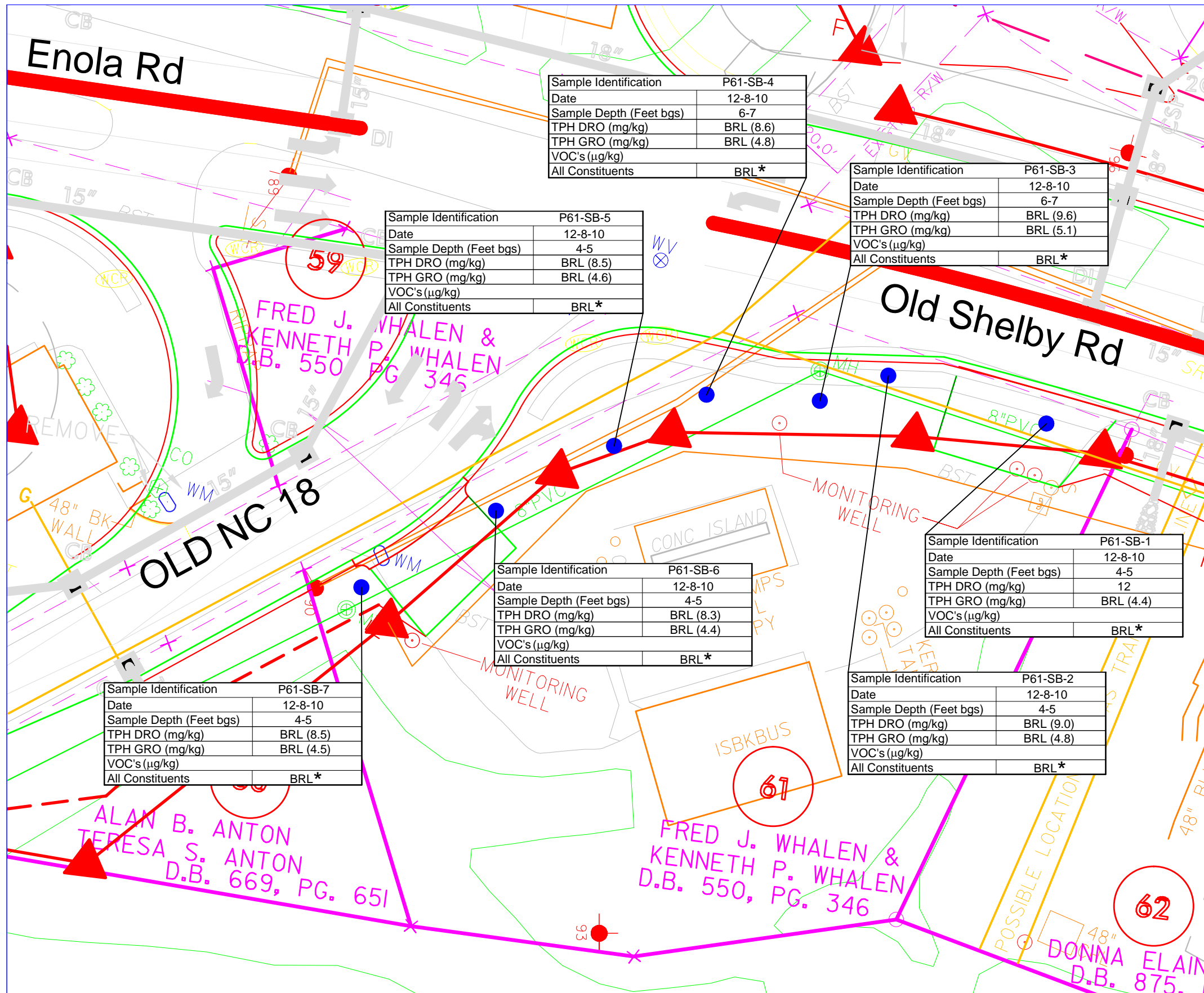
- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- Cut Line
- Fill Line
- Soil Boring Location December 2010
- Probable UST
- Underground Gas Line
- Underground Water Line

*BRL** Below Reporting Limits (low levels of acetone were detected in each sample – suspected Laboratory contamination)

Figure 2
Parcel #61 Earl C. Edward Property
Site Map With Sample Locations

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

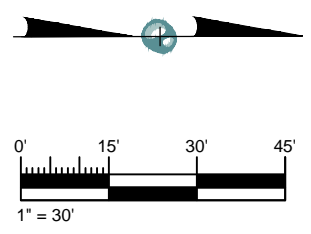




LEGEND

- Proposed Right of Way
- Existing Property Line
- Existing Right of Way
- Cut Line
- 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)



Sample Identification	P61-SB-4
Date	12-8-10
Sample Depth (Feet bgs)	6-7
TPH DRO (mg/kg)	BRL (8.6)
TPH GRO (mg/kg)	BRL (4.8)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P61-SB-3
Date	12-8-10
Sample Depth (Feet bgs)	6-7
TPH DRO (mg/kg)	BRL (9.6)
TPH GRO (mg/kg)	BRL (5.1)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P61-SB-5
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.5)
TPH GRO (mg/kg)	BRL (4.6)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P61-SB-6
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.3)
TPH GRO (mg/kg)	BRL (4.4)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P61-SB-1
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	12
TPH GRO (mg/kg)	BRL (4.4)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P61-SB-7
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (8.5)
TPH GRO (mg/kg)	BRL (4.5)
VOC's (µg/kg)	
All Constituents	BRL*

Sample Identification	P61-SB-2
Date	12-8-10
Sample Depth (Feet bgs)	4-5
TPH DRO (mg/kg)	BRL (9.0)
TPH GRO (mg/kg)	BRL (4.8)
VOC's (µg/kg)	
All Constituents	BRL*

Figure 3
Parcel #61 Earl C. Edward Property
Site Map With Analytical Data

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



APPENDIX A

PHOTO LOG



Photo 1

Viewing northwest from the southeastern portion of the site. Photo shows gas line to the left marked with yellow paint, telephone line in the middle marked with orange paint, and storm drain to the right marked with green paint. The white paint in the background marks the proposed right of way and construction easement.



Photo 2

Viewing North from the eastern portion of the site. Carolina Soil Investigations is placing cones around the site for safety.



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Greensboro, NC 27401

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PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 61, 403 Old NC 18, Morganton, NC



Photo 3

Viewing south from northwestern corner of the site.



Photo 4

Viewing southeast from western portion of the site. Flush mounted monitoring well is visible.



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PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 61, 403 Old NC 18, Morganton, NC

APPENDIX B
BORING LOGS



AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P61-SB1

Site Name: Parcel 61

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		Tan, Well Sorted, Silt, Damp
1.5-4	0		Orange, Well Sorted, Silt, Damp
4-6	0		Brown, Well Sorted, Silt, Damp
6-8	0		Orange, Well Sorted, Clayey Silt, Damp
8-10	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.: P61-SB2	Site Name: Parcel 61
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	0		Orange, Well Sorted, Clayey Silt, Damp
2-4	0		Orange, Well Sorted, Clayey Silt, Damp
4-7	0		Orange, Well Sorted, Clayey Silt, Damp
7-10	0		Orange, 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.: P61-SB3	Site Name: Parcel 61
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	0		Orange, Well Sorted, Clayey Silt, Damp
2-4	0		Orange, Well Sorted, Clayey Silt, Damp
4-7	0		Orange, Well Sorted, Clayey Silt, Damp
7-10	0		Red, 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.: P61-SB4	Site Name: Parcel 61
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		Brown, Well Sorted, Clayey Silt, Damp
3-6	0		Red, Well Sorted, Clayey Silt, Damp
6-8	0		Orange, Well Sorted, Clayey Silt, Damp
8-10	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.: P61-SB6	Site Name: Parcel 61
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		Brown, Well Sorted, Clayey Silt, Damp
2.5-5	0		Red, Well Sorted, Clayey Silt, Damp
5-7	0		Red, Well Sorted, Silt, Damp
7-10	0		Orange/Yellow, 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



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 61, 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 two 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 northeast side of Enola Road and Old Shelby Road 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 61 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 at the site do not indicate the presence of metallic USTs within the areas surveyed.

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 do not indicate the presence of metallic USTs in the areas surveyed on the subject property.

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 (4)

FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.32 (U-2551, BURKE COUNTY)\REPORT\PARCEL 61\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 61 (U-2551).DOCX



Parcel 61 – Earl C. Edward Property, looking northeast



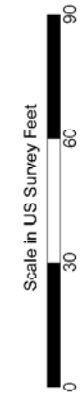
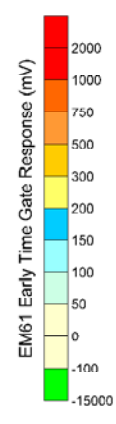
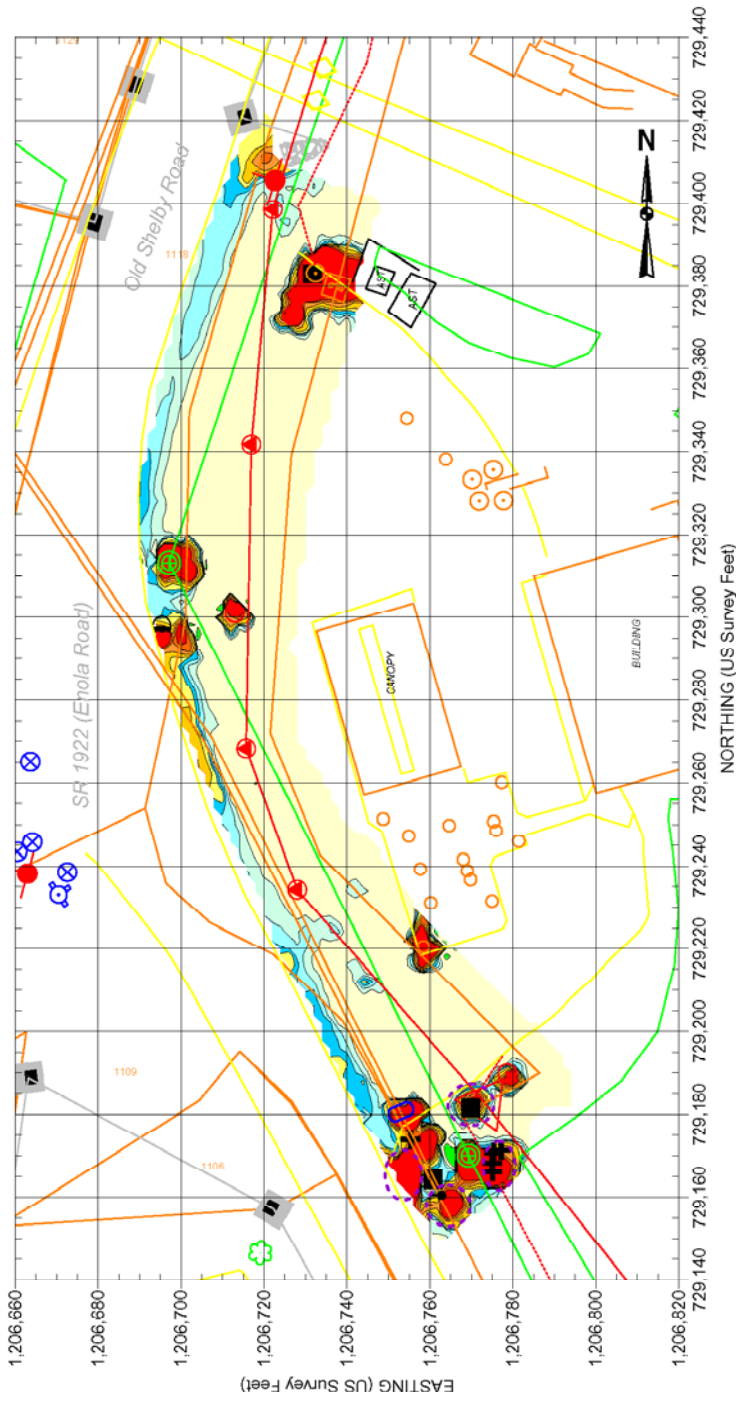
Parcel 61 – Earl C. Edward Property, looking southeast



Geonics EM61-MK2



GSSI SIR-3000



EXPLANATION	
	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY LID
	LIGHT POLE
	STORM SEWER INLET
	UST LID
	DOT PROPOSED RAW
	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

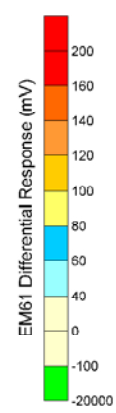
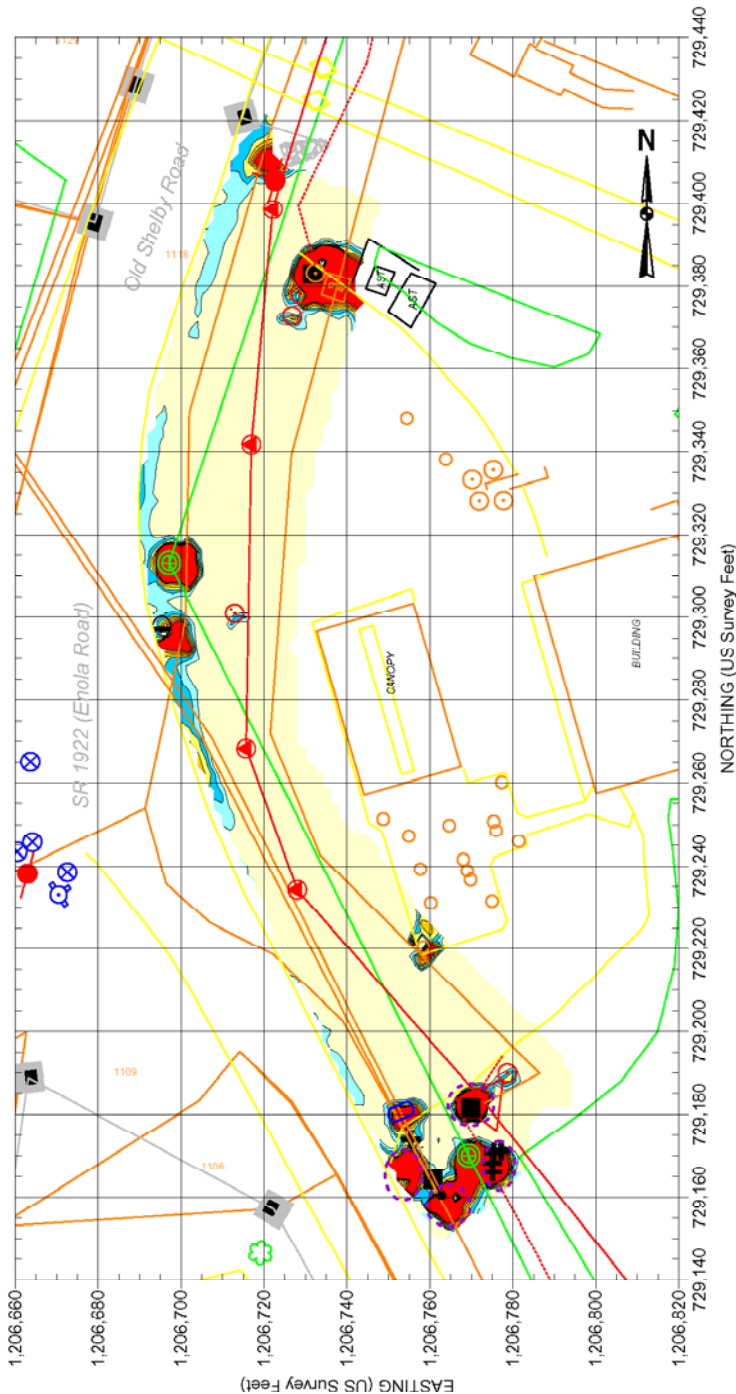
REF.: NCDOT FILES: u2551_rdy_psh_11.dgn
(FOR SOME SITE FEATURES)

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.



STATE PROJECT U-2551
BURKE COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 082100-3.32

PARCEL 61
EARLY TIME GATE
RESPONSE



EXPLANATION	
	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY LID
	LIGHT POLE
	STORM SEWER INLET
	UST LID
	DOT PROPOSED RAW
	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_rdy_psh_11.dgn
(FOR SOME SITE FEATURES)

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 Gophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.



STATE PROJECT U-2551
BURKE COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 082100-3.32

PARCEL 61
DIFFERENTIAL
RESPONSE

APPENDIX D

LABORATORY ANALYTICAL RESULTS

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

Project: NCDOT: Burke County Parcel 61
Project No.: WBS #34832.1.1
Lab Submittal Date: 12/10/2010
Prism Work Order: 0120335

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:

- A Surrogate recovery above the control limit. There were no detection of GRO in the sample. No further action was taken.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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.

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
P-61-SB-1 (4-5)	0120335-01	Solid	12/08/10	12/10/10
P-61-SB-2 (4-5)	0120335-02	Solid	12/08/10	12/10/10
P-61-SB-3 (6-7)	0120335-03	Solid	12/08/10	12/10/10
P-61-SB-4 (6-7)	0120335-04	Solid	12/08/10	12/10/10
P-61-SB-5 (4-5)	0120335-05	Solid	12/08/10	12/10/10
P-61-SB-6 (4-5)	0120335-06	Solid	12/08/10	12/10/10
P-61-SB-7 (4-5)	0120335-07	Solid	12/08/10	12/10/10

Samples received in good condition at 2.7 degrees C unless otherwise noted.

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-1 (4-5)
Prism Sample ID: 0120335-01
Prism Work Order: 0120335
Time Collected: 12/08/10 13:30
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	12	mg/kg dry	8.5	1.4	1	8015C	12/16/10 0:09	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			105 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.4	0.58	50	8015C	12/15/10 1:21	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			140 %		55-129	A

General Chemistry Parameters

% Solids	81.9	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	P0L0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.5	1.5	1	8260B	12/16/10 17:55	KLA	P0L0361
1,1,1-Trichloroethane	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 17:55	KLA	P0L0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	P0L0361
1,1,2-Trichloroethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	P0L0361
1,1-Dichloroethane	BRL	ug/kg dry	4.5	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
1,1-Dichloroethylene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361
1,1-Dichloropropylene	BRL	ug/kg dry	4.5	0.95	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.1	1.5	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2,3-Trichloropropane	BRL	ug/kg dry	4.5	1.9	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.1	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.5	1.6	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2-Dibromoethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2-Dichlorobenzene	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2-Dichloroethane	BRL	ug/kg dry	4.5	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
1,2-Dichloropropane	BRL	ug/kg dry	4.5	1.4	1	8260B	12/16/10 17:55	KLA	P0L0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
1,3-Dichlorobenzene	BRL	ug/kg dry	9.1	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361
1,3-Dichloropropane	BRL	ug/kg dry	4.5	0.94	1	8260B	12/16/10 17:55	KLA	P0L0361
1,4-Dichlorobenzene	BRL	ug/kg dry	9.1	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361
2,2-Dichloropropane	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.1	1.4	1	8260B	12/16/10 17:55	KLA	P0L0361
2-Chlorotoluene	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
4-Chlorotoluene	BRL	ug/kg dry	9.1	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361
4-Isopropyltoluene	BRL	ug/kg dry	14	1.3	1	8260B	12/16/10 17:55	KLA	P0L0361
Acetone	34	ug/kg dry	18	2.0	1	8260B	12/16/10 17:55	KLA	P0L0361
Acrolein	BRL	ug/kg dry	91	3.5	1	8260B	12/16/10 17:55	KLA	P0L0361
Acrylonitrile	BRL	ug/kg dry	91	2.0	1	8260B	12/16/10 17:55	KLA	P0L0361
Benzene	BRL	ug/kg dry	2.7	1.2	1	8260B	12/16/10 17:55	KLA	P0L0361
Bromobenzene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	P0L0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-1 (4-5)
 Prism Sample ID: 0120335-01
 Prism Work Order: 0120335
 Time Collected: 12/08/10 13:30
 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	4.5	1.2	1	8260B	12/16/10 17:55	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 17:55	KLA	POL0361
Bromoform	BRL	ug/kg dry	4.5	0.99	1	8260B	12/16/10 17:55	KLA	POL0361
Bromomethane	BRL	ug/kg dry	9.1	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	9.1	0.93	1	8260B	12/16/10 17:55	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 17:55	KLA	POL0361
Chloroethane	BRL	ug/kg dry	9.1	2.4	1	8260B	12/16/10 17:55	KLA	POL0361
Chloroform	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
Chloromethane	BRL	ug/kg dry	9.1	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	9.1	0.94	1	8260B	12/16/10 17:55	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	4.5	0.95	1	8260B	12/16/10 17:55	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	14	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.1	1.0	1	8260B	12/16/10 17:55	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	9.1	2.4	1	8260B	12/16/10 17:55	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	45	1.4	1	8260B	12/16/10 17:55	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	18	1.2	1	8260B	12/16/10 17:55	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.1	0.99	1	8260B	12/16/10 17:55	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.5	0.95	1	8260B	12/16/10 17:55	KLA	POL0361
Naphthalene	BRL	ug/kg dry	4.5	2.5	1	8260B	12/16/10 17:55	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	14	1.7	1	8260B	12/16/10 17:55	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	9.1	1.3	1	8260B	12/16/10 17:55	KLA	POL0361
o-Xylene	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 17:55	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	14	1.2	1	8260B	12/16/10 17:55	KLA	POL0361
Styrene	BRL	ug/kg dry	4.5	0.89	1	8260B	12/16/10 17:55	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	18	1.2	1	8260B	12/16/10 17:55	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	POL0361
Toluene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 17:55	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.5	0.90	1	8260B	12/16/10 17:55	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.5	0.91	1	8260B	12/16/10 17:55	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 17:55	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	9.1	3.1	1	8260B	12/16/10 17:55	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	9.1	1.2	1	8260B	12/16/10 17:55	KLA	POL0361

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	103 %	70-130
Dibromofluoromethane	106 %	84-123

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-1 (4-5)
Prism Sample ID: 0120335-01
Prism Work Order: 0120335
Time Collected: 12/08/10 13:30
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 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-2 (4-5)
 Prism Sample ID: 0120335-02
 Prism Work Order: 0120335
 Time Collected: 12/08/10 13:45
 Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	9.0	1.4	1	8015C	12/16/10 0:44	JMV	POL0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			89 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.8	0.62	50	8015C	12/15/10 1:52	HPE	POL0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			131 %		55-129	A

General Chemistry Parameters

% Solids	78.0	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	POL0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.9	1.6	1	8260B	12/16/10 18:27	KLA	POL0361
1,1,1-Trichloroethane	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.9	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
1,1,2-Trichloroethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
1,1-Dichloroethane	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
1,1-Dichloroethylene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
1,1-Dichloropropylene	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 18:27	KLA	POL0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.7	1.6	1	8260B	12/16/10 18:27	KLA	POL0361
1,2,3-Trichloropropane	BRL	ug/kg dry	4.9	2.0	1	8260B	12/16/10 18:27	KLA	POL0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.7	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.9	1.8	1	8260B	12/16/10 18:27	KLA	POL0361
1,2-Dibromoethane	BRL	ug/kg dry	4.9	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
1,2-Dichlorobenzene	BRL	ug/kg dry	9.7	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
1,2-Dichloroethane	BRL	ug/kg dry	4.9	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
1,2-Dichloropropane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.7	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
1,3-Dichlorobenzene	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
1,3-Dichloropropane	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 18:27	KLA	POL0361
1,4-Dichlorobenzene	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
2,2-Dichloropropane	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.7	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
2-Chlorotoluene	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
4-Chlorotoluene	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
4-Isopropyltoluene	BRL	ug/kg dry	15	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
Acetone	39	ug/kg dry	19	2.1	1	8260B	12/16/10 18:27	KLA	POL0361
Acrolein	BRL	ug/kg dry	97	3.7	1	8260B	12/16/10 18:27	KLA	POL0361
Acrylonitrile	BRL	ug/kg dry	97	2.1	1	8260B	12/16/10 18:27	KLA	POL0361
Benzene	BRL	ug/kg dry	2.9	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
Bromobenzene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-2 (4-5)
 Prism Sample ID: 0120335-02
 Prism Work Order: 0120335
 Time Collected: 12/08/10 13:45
 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 18:27	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
Bromoform	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
Bromomethane	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	9.7	0.99	1	8260B	12/16/10 18:27	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
Chloroethane	BRL	ug/kg dry	9.7	2.5	1	8260B	12/16/10 18:27	KLA	POL0361
Chloroform	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Chloromethane	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	9.7	1.0	1	8260B	12/16/10 18:27	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 18:27	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	15	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.7	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	9.7	2.6	1	8260B	12/16/10 18:27	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	49	1.5	1	8260B	12/16/10 18:27	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	19	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.7	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	9.7	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.9	1.0	1	8260B	12/16/10 18:27	KLA	POL0361
Naphthalene	BRL	ug/kg dry	4.9	2.6	1	8260B	12/16/10 18:27	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	15	1.8	1	8260B	12/16/10 18:27	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	9.7	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
o-Xylene	BRL	ug/kg dry	4.9	1.1	1	8260B	12/16/10 18:27	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	15	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
Styrene	BRL	ug/kg dry	4.9	0.95	1	8260B	12/16/10 18:27	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	19	1.3	1	8260B	12/16/10 18:27	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	9.7	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
Toluene	BRL	ug/kg dry	4.9	1.2	1	8260B	12/16/10 18:27	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.9	0.96	1	8260B	12/16/10 18:27	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.9	0.97	1	8260B	12/16/10 18:27	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	4.9	1.4	1	8260B	12/16/10 18:27	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	9.7	3.3	1	8260B	12/16/10 18:27	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	9.7	1.3	1	8260B	12/16/10 18:27	KLA	POL0361

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	101 %	70-130
Dibromofluoromethane	105 %	84-123

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-2 (4-5)
Prism Sample ID: 0120335-02
Prism Work Order: 0120335
Time Collected: 12/08/10 13:45
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				105 %		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 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-3 (6-7)
 Prism Sample ID: 0120335-03
 Prism Work Order: 0120335
 Time Collected: 12/08/10 13:50
 Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	9.6	1.6	1	8015C	12/16/10 4:52	JMV	P0L0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			88 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.1	0.66	50	8015C	12/15/10 2:23	HPE	P0L0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			126 %		55-129	

General Chemistry Parameters

% Solids	72.2	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	P0L0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	5.0	1.7	1	8260B	12/16/10 18:59	KLA	P0L0361
1,1,1-Trichloroethane	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 18:59	KLA	P0L0361
1,1,2-Trichloroethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 18:59	KLA	P0L0361
1,1-Dichloroethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 18:59	KLA	P0L0361
1,1-Dichloroethylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
1,1-Dichloropropylene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	10	1.6	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2,3-Trichloropropane	BRL	ug/kg dry	5.0	2.1	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	5.0	1.8	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2-Dibromoethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2-Dichlorobenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2-Dichloroethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 18:59	KLA	P0L0361
1,2-Dichloropropane	BRL	ug/kg dry	5.0	1.5	1	8260B	12/16/10 18:59	KLA	P0L0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 18:59	KLA	P0L0361
1,3-Dichlorobenzene	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
1,3-Dichloropropane	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 18:59	KLA	P0L0361
1,4-Dichlorobenzene	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
2,2-Dichloropropane	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	10	1.5	1	8260B	12/16/10 18:59	KLA	P0L0361
2-Chlorotoluene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 18:59	KLA	P0L0361
4-Chlorotoluene	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361
4-Isopropyltoluene	BRL	ug/kg dry	15	1.5	1	8260B	12/16/10 18:59	KLA	P0L0361
Acetone	20	ug/kg dry	20	2.2	1	8260B	12/16/10 18:59	KLA	P0L0361
Acrolein	BRL	ug/kg dry	100	3.8	1	8260B	12/16/10 18:59	KLA	P0L0361
Acrylonitrile	BRL	ug/kg dry	100	2.2	1	8260B	12/16/10 18:59	KLA	P0L0361
Benzene	BRL	ug/kg dry	3.0	1.3	1	8260B	12/16/10 18:59	KLA	P0L0361
Bromobenzene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	P0L0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-3 (6-7)
 Prism Sample ID: 0120335-03
 Prism Work Order: 0120335
 Time Collected: 12/08/10 13:50
 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	1.4	1	8260B	12/16/10 18:59	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
Bromoform	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 18:59	KLA	POL0361
Bromomethane	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	10	1.0	1	8260B	12/16/10 18:59	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	5.0	1.5	1	8260B	12/16/10 18:59	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 18:59	KLA	POL0361
Chloroethane	BRL	ug/kg dry	10	2.6	1	8260B	12/16/10 18:59	KLA	POL0361
Chloroform	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Chloromethane	BRL	ug/kg dry	10	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	5.0	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 18:59	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	10	1.0	1	8260B	12/16/10 18:59	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 18:59	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	15	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 18:59	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	10	2.7	1	8260B	12/16/10 18:59	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	50	1.5	1	8260B	12/16/10 18:59	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	20	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	10	1.1	1	8260B	12/16/10 18:59	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 18:59	KLA	POL0361
Naphthalene	BRL	ug/kg dry	5.0	2.7	1	8260B	12/16/10 18:59	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	15	1.8	1	8260B	12/16/10 18:59	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	10	1.4	1	8260B	12/16/10 18:59	KLA	POL0361
o-Xylene	BRL	ug/kg dry	5.0	1.1	1	8260B	12/16/10 18:59	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	15	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Styrene	BRL	ug/kg dry	5.0	0.98	1	8260B	12/16/10 18:59	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	20	1.4	1	8260B	12/16/10 18:59	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 18:59	KLA	POL0361
Toluene	BRL	ug/kg dry	5.0	1.2	1	8260B	12/16/10 18:59	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	5.0	0.99	1	8260B	12/16/10 18:59	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	5.0	1.0	1	8260B	12/16/10 18:59	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 18:59	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	5.0	1.4	1	8260B	12/16/10 18:59	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	10	3.4	1	8260B	12/16/10 18:59	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	10	1.3	1	8260B	12/16/10 18:59	KLA	POL0361

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

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-3 (6-7)
Prism Sample ID: 0120335-03
Prism Work Order: 0120335
Time Collected: 12/08/10 13:50
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 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-4 (6-7)
 Prism Sample ID: 0120335-04
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:00
 Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.6	1.4	1	8015C	12/16/10 1:20	JMV	POL0295
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			96 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.8	0.63	50	8015C	12/15/10 2:54	HPE	POL0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			141 %		55-129	A

General Chemistry Parameters

% Solids	81.0	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	POL0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.8	1.6	1	8260B	12/16/10 20:36	KLA	POL0361
1,1,1-Trichloroethane	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.8	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
1,1,2-Trichloroethane	BRL	ug/kg dry	4.8	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
1,1-Dichloroethane	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
1,1-Dichloroethylene	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
1,1-Dichloropropylene	BRL	ug/kg dry	4.8	1.0	1	8260B	12/16/10 20:36	KLA	POL0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.6	1.6	1	8260B	12/16/10 20:36	KLA	POL0361
1,2,3-Trichloropropane	BRL	ug/kg dry	4.8	2.0	1	8260B	12/16/10 20:36	KLA	POL0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.6	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.8	1.7	1	8260B	12/16/10 20:36	KLA	POL0361
1,2-Dibromoethane	BRL	ug/kg dry	4.8	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
1,2-Dichlorobenzene	BRL	ug/kg dry	9.6	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
1,2-Dichloroethane	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
1,2-Dichloropropane	BRL	ug/kg dry	4.8	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.6	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
1,3-Dichlorobenzene	BRL	ug/kg dry	9.6	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
1,3-Dichloropropane	BRL	ug/kg dry	4.8	0.99	1	8260B	12/16/10 20:36	KLA	POL0361
1,4-Dichlorobenzene	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
2,2-Dichloropropane	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.6	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
2-Chlorotoluene	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
4-Chlorotoluene	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
4-Isopropyltoluene	BRL	ug/kg dry	14	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
Acetone	10 J	ug/kg dry	19	2.1	1	8260B	12/16/10 20:36	KLA	POL0361
Acrolein	BRL	ug/kg dry	96	3.7	1	8260B	12/16/10 20:36	KLA	POL0361
Acrylonitrile	BRL	ug/kg dry	96	2.1	1	8260B	12/16/10 20:36	KLA	POL0361
Benzene	BRL	ug/kg dry	2.9	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Bromobenzene	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-4 (6-7)
 Prism Sample ID: 0120335-04
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:00
 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	4.8	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
Bromoform	BRL	ug/kg dry	4.8	1.0	1	8260B	12/16/10 20:36	KLA	POL0361
Bromomethane	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	9.6	0.97	1	8260B	12/16/10 20:36	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	4.8	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
Chloroethane	BRL	ug/kg dry	9.6	2.5	1	8260B	12/16/10 20:36	KLA	POL0361
Chloroform	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
Chloromethane	BRL	ug/kg dry	9.6	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	4.8	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	9.6	0.99	1	8260B	12/16/10 20:36	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	4.8	1.0	1	8260B	12/16/10 20:36	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	14	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.6	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	9.6	2.5	1	8260B	12/16/10 20:36	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	48	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	19	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.6	1.0	1	8260B	12/16/10 20:36	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	9.6	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.8	1.0	1	8260B	12/16/10 20:36	KLA	POL0361
Naphthalene	BRL	ug/kg dry	4.8	2.6	1	8260B	12/16/10 20:36	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	14	1.8	1	8260B	12/16/10 20:36	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	9.6	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
o-Xylene	BRL	ug/kg dry	4.8	1.1	1	8260B	12/16/10 20:36	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	14	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Styrene	BRL	ug/kg dry	4.8	0.93	1	8260B	12/16/10 20:36	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	19	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
Toluene	BRL	ug/kg dry	4.8	1.2	1	8260B	12/16/10 20:36	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.8	0.95	1	8260B	12/16/10 20:36	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.8	0.95	1	8260B	12/16/10 20:36	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	4.8	1.3	1	8260B	12/16/10 20:36	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	4.8	1.4	1	8260B	12/16/10 20:36	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	9.6	3.3	1	8260B	12/16/10 20:36	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	9.6	1.2	1	8260B	12/16/10 20:36	KLA	POL0361

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	108 %	84-123

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-4 (6-7)
Prism Sample ID: 0120335-04
Prism Work Order: 0120335
Time Collected: 12/08/10 14:00
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 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-5 (4-5)
 Prism Sample ID: 0120335-05
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:10
 Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.5	1.4	1	8015C	12/16/10 16:10	JMV	POL0326
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			77 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.6	0.60	50	8015C	12/15/10 3:25	HPE	POL0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			136 %		55-129	A

General Chemistry Parameters

% Solids	82.7	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	POL0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.3	1.4	1	8260B	12/16/10 21:08	KLA	POL0361
1,1,1-Trichloroethane	BRL	ug/kg dry	4.3	0.98	1	8260B	12/16/10 21:08	KLA	POL0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
1,1,2-Trichloroethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
1,1-Dichloroethane	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
1,1-Dichloroethylene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
1,1-Dichloropropylene	BRL	ug/kg dry	4.3	0.89	1	8260B	12/16/10 21:08	KLA	POL0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	8.5	1.4	1	8260B	12/16/10 21:08	KLA	POL0361
1,2,3-Trichloropropane	BRL	ug/kg dry	4.3	1.8	1	8260B	12/16/10 21:08	KLA	POL0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	8.5	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.3	1.5	1	8260B	12/16/10 21:08	KLA	POL0361
1,2-Dibromoethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
1,2-Dichlorobenzene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
1,2-Dichloroethane	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
1,2-Dichloropropane	BRL	ug/kg dry	4.3	1.3	1	8260B	12/16/10 21:08	KLA	POL0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
1,3-Dichlorobenzene	BRL	ug/kg dry	8.5	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
1,3-Dichloropropane	BRL	ug/kg dry	4.3	0.88	1	8260B	12/16/10 21:08	KLA	POL0361
1,4-Dichlorobenzene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
2,2-Dichloropropane	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	8.5	1.3	1	8260B	12/16/10 21:08	KLA	POL0361
2-Chlorotoluene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
4-Chlorotoluene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
4-Isopropyltoluene	BRL	ug/kg dry	13	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Acetone	15 J	ug/kg dry	17	1.8	1	8260B	12/16/10 21:08	KLA	POL0361
Acrolein	BRL	ug/kg dry	85	3.3	1	8260B	12/16/10 21:08	KLA	POL0361
Acrylonitrile	BRL	ug/kg dry	85	1.9	1	8260B	12/16/10 21:08	KLA	POL0361
Benzene	BRL	ug/kg dry	2.6	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Bromobenzene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 21:08	KLA	POL0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-5 (4-5)
 Prism Sample ID: 0120335-05
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:10
 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	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	4.3	0.98	1	8260B	12/16/10 21:08	KLA	POL0361
Bromoform	BRL	ug/kg dry	4.3	0.93	1	8260B	12/16/10 21:08	KLA	POL0361
Bromomethane	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	8.5	0.87	1	8260B	12/16/10 21:08	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	4.3	0.97	1	8260B	12/16/10 21:08	KLA	POL0361
Chloroethane	BRL	ug/kg dry	8.5	2.2	1	8260B	12/16/10 21:08	KLA	POL0361
Chloroform	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Chloromethane	BRL	ug/kg dry	8.5	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	8.5	0.88	1	8260B	12/16/10 21:08	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	4.3	0.89	1	8260B	12/16/10 21:08	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	13	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	4.3	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	8.5	0.96	1	8260B	12/16/10 21:08	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	8.5	2.3	1	8260B	12/16/10 21:08	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	43	1.3	1	8260B	12/16/10 21:08	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	17	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	8.5	0.93	1	8260B	12/16/10 21:08	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.3	0.89	1	8260B	12/16/10 21:08	KLA	POL0361
Naphthalene	BRL	ug/kg dry	4.3	2.3	1	8260B	12/16/10 21:08	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	13	1.6	1	8260B	12/16/10 21:08	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	8.5	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
o-Xylene	BRL	ug/kg dry	4.3	0.95	1	8260B	12/16/10 21:08	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	13	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Styrene	BRL	ug/kg dry	4.3	0.83	1	8260B	12/16/10 21:08	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	17	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361
Toluene	BRL	ug/kg dry	4.3	1.0	1	8260B	12/16/10 21:08	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.3	0.84	1	8260B	12/16/10 21:08	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.3	0.85	1	8260B	12/16/10 21:08	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	4.3	1.2	1	8260B	12/16/10 21:08	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	8.5	2.9	1	8260B	12/16/10 21:08	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	8.5	1.1	1	8260B	12/16/10 21:08	KLA	POL0361

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	99 %	70-130
Dibromofluoromethane	105 %	84-123

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-5 (4-5)
Prism Sample ID: 0120335-05
Prism Work Order: 0120335
Time Collected: 12/08/10 14:10
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				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 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-6 (4-5)
 Prism Sample ID: 0120335-06
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:20
 Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.3	1.3	1	8015C	12/16/10 16:45	JMV	POL0326
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			86 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.4	0.58	50	8015C	12/15/10 3:55	HPE	POL0268
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			142 %		55-129	A

General Chemistry Parameters

% Solids	84.3	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	POL0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.4	1.4	1	8260B	12/16/10 21:41	KLA	POL0361
1,1,1-Trichloroethane	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
1,1,2-Trichloroethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
1,1-Dichloroethane	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
1,1-Dichloroethylene	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
1,1-Dichloropropylene	BRL	ug/kg dry	4.4	0.91	1	8260B	12/16/10 21:41	KLA	POL0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	8.7	1.4	1	8260B	12/16/10 21:41	KLA	POL0361
1,2,3-Trichloropropane	BRL	ug/kg dry	4.4	1.8	1	8260B	12/16/10 21:41	KLA	POL0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.4	1.6	1	8260B	12/16/10 21:41	KLA	POL0361
1,2-Dibromoethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
1,2-Dichlorobenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
1,2-Dichloroethane	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
1,2-Dichloropropane	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 21:41	KLA	POL0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
1,3-Dichlorobenzene	BRL	ug/kg dry	8.7	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
1,3-Dichloropropane	BRL	ug/kg dry	4.4	0.90	1	8260B	12/16/10 21:41	KLA	POL0361
1,4-Dichlorobenzene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
2,2-Dichloropropane	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	8.7	1.3	1	8260B	12/16/10 21:41	KLA	POL0361
2-Chlorotoluene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
4-Chlorotoluene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
4-Isopropyltoluene	BRL	ug/kg dry	13	1.3	1	8260B	12/16/10 21:41	KLA	POL0361
Acetone	13 J	ug/kg dry	17	1.9	1	8260B	12/16/10 21:41	KLA	POL0361
Acrolein	BRL	ug/kg dry	87	3.3	1	8260B	12/16/10 21:41	KLA	POL0361
Acrylonitrile	BRL	ug/kg dry	87	1.9	1	8260B	12/16/10 21:41	KLA	POL0361
Benzene	BRL	ug/kg dry	2.6	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
Bromobenzene	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-6 (4-5)
 Prism Sample ID: 0120335-06
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:20
 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 21:41	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
Bromoform	BRL	ug/kg dry	4.4	0.95	1	8260B	12/16/10 21:41	KLA	POL0361
Bromomethane	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	8.7	0.89	1	8260B	12/16/10 21:41	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	4.4	1.3	1	8260B	12/16/10 21:41	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	4.4	0.99	1	8260B	12/16/10 21:41	KLA	POL0361
Chloroethane	BRL	ug/kg dry	8.7	2.3	1	8260B	12/16/10 21:41	KLA	POL0361
Chloroform	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Chloromethane	BRL	ug/kg dry	8.7	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.4	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	8.7	0.90	1	8260B	12/16/10 21:41	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	4.4	0.91	1	8260B	12/16/10 21:41	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	13	1.0	1	8260B	12/16/10 21:41	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	8.7	0.98	1	8260B	12/16/10 21:41	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	8.7	2.3	1	8260B	12/16/10 21:41	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	44	1.3	1	8260B	12/16/10 21:41	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	17	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	8.7	0.95	1	8260B	12/16/10 21:41	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.4	0.91	1	8260B	12/16/10 21:41	KLA	POL0361
Naphthalene	BRL	ug/kg dry	4.4	2.4	1	8260B	12/16/10 21:41	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	13	1.6	1	8260B	12/16/10 21:41	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	8.7	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
o-Xylene	BRL	ug/kg dry	4.4	0.97	1	8260B	12/16/10 21:41	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	13	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Styrene	BRL	ug/kg dry	4.4	0.85	1	8260B	12/16/10 21:41	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	17	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
Toluene	BRL	ug/kg dry	4.4	1.1	1	8260B	12/16/10 21:41	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.4	0.86	1	8260B	12/16/10 21:41	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.4	0.87	1	8260B	12/16/10 21:41	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	4.4	1.2	1	8260B	12/16/10 21:41	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	8.7	3.0	1	8260B	12/16/10 21:41	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	8.7	1.1	1	8260B	12/16/10 21:41	KLA	POL0361

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	101 %	70-130
Dibromofluoromethane	107 %	84-123

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-6 (4-5)
Prism Sample ID: 0120335-06
Prism Work Order: 0120335
Time Collected: 12/08/10 14:20
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 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-7 (4-5)
 Prism Sample ID: 0120335-07
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:40
 Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.5	1.4	1	8015C	12/16/10 17:21	JMV	P0L0326
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			73 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.5	0.59	50	8015C	12/15/10 12:39	HPE	P0L0294
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			123 %		55-129	

General Chemistry Parameters

% Solids	82.0	% by Weight	0.100	0.100	1	*SM2540 G	12/15/10 16:15	JAB	P0L0336
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/kg dry	4.5	1.5	1	8260B	12/16/10 22:13	KLA	P0L0361
1,1,1-Trichloroethane	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 22:13	KLA	P0L0361
1,1,2,2-Tetrachloroethane	BRL	ug/kg dry	4.5	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,1,2-Trichloroethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 22:13	KLA	P0L0361
1,1-Dichloroethane	BRL	ug/kg dry	4.5	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,1-Dichloroethylene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361
1,1-Dichloropropylene	BRL	ug/kg dry	4.5	0.94	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2,3-Trichlorobenzene	BRL	ug/kg dry	9.0	1.5	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2,3-Trichloropropane	BRL	ug/kg dry	4.5	1.9	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2,4-Trichlorobenzene	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2,4-Trimethylbenzene	BRL	ug/kg dry	9.0	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2-Dibromo-3-chloropropane	BRL	ug/kg dry	4.5	1.6	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2-Dibromoethane	BRL	ug/kg dry	4.5	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2-Dichlorobenzene	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2-Dichloroethane	BRL	ug/kg dry	4.5	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,2-Dichloropropane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 22:13	KLA	P0L0361
1,3,5-Trimethylbenzene	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
1,3-Dichlorobenzene	BRL	ug/kg dry	9.0	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361
1,3-Dichloropropane	BRL	ug/kg dry	4.5	0.93	1	8260B	12/16/10 22:13	KLA	P0L0361
1,4-Dichlorobenzene	BRL	ug/kg dry	9.0	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361
2,2-Dichloropropane	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361
2-Chloroethyl Vinyl Ether	BRL	ug/kg dry	9.0	1.3	1	8260B	12/16/10 22:13	KLA	P0L0361
2-Chlorotoluene	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
4-Chlorotoluene	BRL	ug/kg dry	9.0	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361
4-Isopropyltoluene	BRL	ug/kg dry	13	1.3	1	8260B	12/16/10 22:13	KLA	P0L0361
Acetone	21	ug/kg dry	18	2.0	1	8260B	12/16/10 22:13	KLA	P0L0361
Acrolein	BRL	ug/kg dry	90	3.4	1	8260B	12/16/10 22:13	KLA	P0L0361
Acrylonitrile	BRL	ug/kg dry	90	2.0	1	8260B	12/16/10 22:13	KLA	P0L0361
Benzene	BRL	ug/kg dry	2.7	1.2	1	8260B	12/16/10 22:13	KLA	P0L0361
Bromobenzene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	P0L0361

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

Project: NCDOT: Burke County
 Parcel 61
 Project No.: WBS #34832.1.1
 Sample Matrix: Solid

Client Sample ID: P-61-SB-7 (4-5)
 Prism Sample ID: 0120335-07
 Prism Work Order: 0120335
 Time Collected: 12/08/10 14:40
 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	4.5	1.2	1	8260B	12/16/10 22:13	KLA	POL0361
Bromodichloromethane	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 22:13	KLA	POL0361
Bromoform	BRL	ug/kg dry	4.5	0.98	1	8260B	12/16/10 22:13	KLA	POL0361
Bromomethane	BRL	ug/kg dry	9.0	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
Carbon disulfide	BRL	ug/kg dry	9.0	0.92	1	8260B	12/16/10 22:13	KLA	POL0361
Carbon Tetrachloride	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 22:13	KLA	POL0361
Chlorobenzene	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 22:13	KLA	POL0361
Chloroethane	BRL	ug/kg dry	9.0	2.3	1	8260B	12/16/10 22:13	KLA	POL0361
Chloroform	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
Chloromethane	BRL	ug/kg dry	9.0	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
cis-1,2-Dichloroethylene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
cis-1,3-Dichloropropylene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
Dibromochloromethane	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
Dibromomethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 22:13	KLA	POL0361
Dichlorodifluoromethane	BRL	ug/kg dry	9.0	0.93	1	8260B	12/16/10 22:13	KLA	POL0361
Ethylbenzene	BRL	ug/kg dry	4.5	0.94	1	8260B	12/16/10 22:13	KLA	POL0361
Hexachlorobutadiene	BRL	ug/kg dry	13	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
Isopropyl Ether	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
Isopropylbenzene (Cumene)	BRL	ug/kg dry	9.0	1.0	1	8260B	12/16/10 22:13	KLA	POL0361
m,p-Xylenes	BRL	ug/kg dry	9.0	2.4	1	8260B	12/16/10 22:13	KLA	POL0361
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/kg dry	45	1.4	1	8260B	12/16/10 22:13	KLA	POL0361
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/kg dry	18	1.2	1	8260B	12/16/10 22:13	KLA	POL0361
Methyl Isobutyl Ketone	BRL	ug/kg dry	9.0	0.98	1	8260B	12/16/10 22:13	KLA	POL0361
Methylene Chloride	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	POL0361
Methyl-tert-Butyl Ether	BRL	ug/kg dry	4.5	0.94	1	8260B	12/16/10 22:13	KLA	POL0361
Naphthalene	BRL	ug/kg dry	4.5	2.4	1	8260B	12/16/10 22:13	KLA	POL0361
n-Butylbenzene	BRL	ug/kg dry	13	1.6	1	8260B	12/16/10 22:13	KLA	POL0361
n-Propylbenzene	BRL	ug/kg dry	9.0	1.3	1	8260B	12/16/10 22:13	KLA	POL0361
o-Xylene	BRL	ug/kg dry	4.5	1.0	1	8260B	12/16/10 22:13	KLA	POL0361
sec-Butylbenzene	BRL	ug/kg dry	13	1.2	1	8260B	12/16/10 22:13	KLA	POL0361
Styrene	BRL	ug/kg dry	4.5	0.88	1	8260B	12/16/10 22:13	KLA	POL0361
tert-Butylbenzene	BRL	ug/kg dry	18	1.2	1	8260B	12/16/10 22:13	KLA	POL0361
Tetrachloroethylene	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	POL0361
Toluene	BRL	ug/kg dry	4.5	1.1	1	8260B	12/16/10 22:13	KLA	POL0361
trans-1,2-Dichloroethylene	BRL	ug/kg dry	4.5	0.89	1	8260B	12/16/10 22:13	KLA	POL0361
trans-1,3-Dichloropropylene	BRL	ug/kg dry	4.5	0.90	1	8260B	12/16/10 22:13	KLA	POL0361
Trichloroethylene	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 22:13	KLA	POL0361
Trichlorofluoromethane	BRL	ug/kg dry	4.5	1.3	1	8260B	12/16/10 22:13	KLA	POL0361
Vinyl acetate	BRL	ug/kg dry	9.0	3.1	1	8260B	12/16/10 22:13	KLA	POL0361
Vinyl chloride	BRL	ug/kg dry	9.0	1.2	1	8260B	12/16/10 22:13	KLA	POL0361

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

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

Project: NCDOT: Burke County
Parcel 61
Project No.: WBS #34832.1.1
Sample Matrix: Solid

Client Sample ID: P-61-SB-7 (4-5)
Prism Sample ID: 0120335-07
Prism Work Order: 0120335
Time Collected: 12/08/10 14:40
Time Submitted: 12/10/10 10:43

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				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
 61
 Project No: WBS #34832.1.1

Prism Work Order: 0120335
 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 P0L0361 - 5035										
Blank (P0L0361-BLK1)										
Prepared & 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							

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

Project: NCDOT: Burke County Parcel
 61
 Project No: WBS #34832.1.1

Prism Work Order: 0120335
 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 P0L0361 - 5035										
Blank (P0L0361-BLK1)										
Prepared & 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	48.9		ug/L	50.0		98	70-130			
Surrogate: Dibromofluoromethane	51.7		ug/L	50.0		103	84-123			
Surrogate: Toluene-d8	52.6		ug/L	50.0		105	76-129			

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61
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Prism Work Order: 0120335
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 P0L0361 - 5035										
LCS (P0L0361-BS1)										
					Prepared & Analyzed: 12/16/10					
1,1-Dichloroethylene	54.2	5.0	ug/kg wet	50.0		108	67-149			
Benzene	47.5	3.0	ug/kg wet	50.0		95	74-127			
Chlorobenzene	49.0	5.0	ug/kg wet	50.0		98	74-118			
Toluene	49.5	5.0	ug/kg wet	50.0		99	71-129			
Trichloroethylene	50.8	5.0	ug/kg wet	50.0		102	75-133			
Surrogate: 4-Bromofluorobenzene	53.1		ug/L	50.0		106	70-130			
Surrogate: Dibromofluoromethane	51.1		ug/L	50.0		102	84-123			
Surrogate: Toluene-d8	51.4		ug/L	50.0		103	76-129			
LCS Dup (P0L0361-BSD1)										
					Prepared & Analyzed: 12/16/10					
1,1-Dichloroethylene	57.3	5.0	ug/kg wet	50.0		115	67-149	6	200	
Benzene	49.7	3.0	ug/kg wet	50.0		99	74-127	5	200	
Chlorobenzene	51.4	5.0	ug/kg wet	50.0		103	74-118	5	200	
Toluene	51.6	5.0	ug/kg wet	50.0		103	71-129	4	200	
Trichloroethylene	53.2	5.0	ug/kg wet	50.0		106	75-133	5	200	
Surrogate: 4-Bromofluorobenzene	52.5		ug/L	50.0		105	70-130			
Surrogate: Dibromofluoromethane	50.1		ug/L	50.0		100	84-123			
Surrogate: Toluene-d8	51.4		ug/L	50.0		103	76-129			
Matrix Spike (P0L0361-MS1)										
			Source: 0120335-01		Prepared & Analyzed: 12/16/10					
1,1-Dichloroethylene	54.9	6.1	ug/kg dry	61.1	BRL	90	54-162			
Benzene	47.8	3.7	ug/kg dry	61.1	BRL	78	60-135			
Chlorobenzene	46.5	6.1	ug/kg dry	61.1	BRL	76	57-125			
Toluene	47.6	6.1	ug/kg dry	61.1	BRL	78	57-135			
Trichloroethylene	48.0	6.1	ug/kg dry	61.1	BRL	79	38-164			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50.0		104	70-130			
Surrogate: Dibromofluoromethane	50.9		ug/L	50.0		102	84-123			
Surrogate: Toluene-d8	51.7		ug/L	50.0		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
61
Project No: WBS #34832.1.1

Prism Work Order: 0120335
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 P0L0361 - 5035										
Matrix Spike Dup (P0L0361-MSD1)		Source: 0120335-01			Prepared & Analyzed: 12/16/10					
1,1-Dichloroethylene	55.7	6.1	ug/kg dry	61.1	BRL	91	54-162	2	22	
Benzene	48.7	3.7	ug/kg dry	61.1	BRL	80	60-135	2	20	
Chlorobenzene	48.3	6.1	ug/kg dry	61.1	BRL	79	57-125	4	14	
Toluene	50.3	6.1	ug/kg dry	61.1	BRL	82	57-135	5	22	
Trichloroethylene	49.5	6.1	ug/kg dry	61.1	BRL	81	38-164	3	18	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>84-123</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>76-129</i>			

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 61
 Project No: WBS #34832.1.1

Prism Work Order: 0120335
 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			
Batch P0L0294 - 5035										
Blank (P0L0294-BLK1) Prepared & Analyzed: 12/15/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.70		mg/kg wet	5.00		114	55-129			
LCS (P0L0294-BS1) Prepared & Analyzed: 12/15/10										
Gasoline Range Organics	52.6	5.0	mg/kg wet	50.0		105	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.70		mg/kg wet	5.00		114	55-129			
LCS Dup (P0L0294-BSD1) Prepared & Analyzed: 12/15/10										
Gasoline Range Organics	53.4	5.0	mg/kg wet	50.0		107	67-116	1	200	
Surrogate: a,a,a-Trifluorotoluene	5.70		mg/kg wet	5.00		114	55-129			
Matrix Spike (P0L0294-MS1) Source: 0120335-07 Prepared & Analyzed: 12/15/10										
Gasoline Range Organics	51.0	6.1	mg/kg dry	61.0	BRL	84	57-113			
Surrogate: a,a,a-Trifluorotoluene	5.91		mg/kg dry	6.10		97	55-129			

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61
Project No: WBS #34832.1.1

Prism Work Order: 0120335
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 P0L0294 - 5035										
Matrix Spike Dup (P0L0294-MSD1)		Source: 0120335-07			Prepared & Analyzed: 12/15/10					
Gasoline Range Organics	51.6	6.1	mg/kg dry	61.0	BRL	85	57-113	1	23	
Surrogate: a,a,a-Trifluorotoluene	6.34		mg/kg dry	6.10		104	55-129			

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 61
 Project No: WBS #34832.1.1

Prism Work Order: 0120335
 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
Batch P0L0326 - 3545A										
Blank (P0L0326-BLK1)				Prepared: 12/15/10 Analyzed: 12/16/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.51		mg/kg wet	1.60		94	49-124			
LCS (P0L0326-BS1)				Prepared: 12/15/10 Analyzed: 12/16/10						
Diesel Range Organics	62.0	7.0	mg/kg wet	79.6		78	55-109			
Surrogate: o-Terphenyl	1.91		mg/kg wet	1.59		120	49-124			
LCS Dup (P0L0326-BSD1)				Prepared: 12/15/10 Analyzed: 12/16/10						
Diesel Range Organics	57.2	7.0	mg/kg wet	79.5		72	55-109	8	200	
Surrogate: o-Terphenyl	1.74		mg/kg wet	1.59		110	49-124			
Matrix Spike (P0L0326-MS1)				Source: 0120335-05		Prepared: 12/15/10 Analyzed: 12/16/10				
Diesel Range Organics	73.3	8.4	mg/kg dry	96.5	BRL	76	50-117			
Surrogate: o-Terphenyl	2.23		mg/kg dry	1.93		115	49-124			

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61
Project No: WBS #34832.1.1

Prism Work Order: 0120335
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 P0L0326 - 3545A										
Matrix Spike Dup (P0L0326-MSD1)		Source: 0120335-05			Prepared: 12/15/10		Analyzed: 12/16/10			
Diesel Range Organics	72.5	8.4	mg/kg dry	96.5	BRL	75	50-117	1	24	
Surrogate: <i>o</i> -Terphenyl	2.28		mg/kg dry	1.93		118	49-124			

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61
Project No: WBS #34832.1.1

Prism Work Order: 0120335
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
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Batch P0L0336 - NO PREP

Blank (P0L0336-BLK1) Prepared & Analyzed: 12/15/10

% Solids	100	0.100	% by Weight							
----------	-----	-------	-------------	--	--	--	--	--	--	--

Duplicate (P0L0336-DUP1) Source: 0120335-02 Prepared & Analyzed: 12/15/10

% Solids	76.5	0.100	% by Weight		78.0			2	20	
----------	------	-------	-------------	--	------	--	--	---	----	--

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0120335-01	P0L0295	25.26 g	1 mL	12/14/10
0120335-02	P0L0295	25.05 g	1 mL	12/14/10
0120335-03	P0L0295	25.19 g	1 mL	12/14/10
0120335-04	P0L0295	25.03 g	1 mL	12/14/10
0120335-05	P0L0326	25.01 g	1 mL	12/15/10
0120335-06	P0L0326	25.05 g	1 mL	12/15/10
0120335-07	P0L0326	25.11 g	1 mL	12/15/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0120335-01	P0L0268	6.87 g	5 mL	12/14/10
0120335-02	P0L0268	6.7 g	5 mL	12/14/10
0120335-03	P0L0268	6.85 g	5 mL	12/14/10
0120335-04	P0L0268	6.4 g	5 mL	12/14/10
0120335-05	P0L0268	6.55 g	5 mL	12/14/10
0120335-06	P0L0268	6.69 g	5 mL	12/14/10
0120335-07	P0L0294	6.73 g	5 mL	12/15/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0120335-01	P0L0336	30 g	30 mL	12/15/10
0120335-02	P0L0336	30 g	30 mL	12/15/10
0120335-03	P0L0336	30 g	30 mL	12/15/10
0120335-04	P0L0336	30 g	30 mL	12/15/10
0120335-05	P0L0336	30 g	30 mL	12/15/10
0120335-06	P0L0336	30 g	30 mL	12/15/10
0120335-07	P0L0336	30 g	30 mL	12/15/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0120335-01	P0L0361	6.72 g	5 mL	12/16/10
0120335-02	P0L0361	6.6 g	5 mL	12/16/10
0120335-03	P0L0361	6.9 g	5 mL	12/16/10
0120335-04	P0L0361	6.46 g	5 mL	12/16/10
0120335-05	P0L0361	7.1 g	5 mL	12/16/10
0120335-06	P0L0361	6.8 g	5 mL	12/16/10
0120335-07	P0L0361	6.78 g	5 mL	12/16/10



Full-Service Analytical & Environmental Solutions

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

Client Company Name: AMEC E+E

Report To/Contact Name: Helen Corley

Reporting Address: 338 N Elm Street
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 61

Site Location Physical Address: Morganton, NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: WAS: 34832.1.1

Project Name: Burke Co

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

Address: Same

Purchase Order No./Billing Reference WAS: 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>2.7</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC

SC _____ OTHER _____ N/A _____

Water Chlorinated: YES _____ NO _____

Sample Used Upon Collection: YES NO _____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED			REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE						
P-61-SB-1(4-5)	12-8-10	1330	Soil	VOA/G	5/3	VOA/G	none methanol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		01
P-61-SB-2(4-5)	↓	1345	↓	↓	↓	↓	↓	↓	↓	↓		02
P-61-SB-3(6-7)	↓	1350	↓	↓	↓	↓	↓	↓	↓	↓		03
P-61-SB-4(6-7)	↓	1400	↓	↓	↓	↓	↓	↓	↓	↓		04
P-61-SB-5(4-5)	↓	1410	↓	↓	↓	↓	↓	↓	↓	↓		05
P-61-SB-6(4-5)	↓	1420	↓	↓	↓	↓	↓	↓	↓	↓		06
P-61-SB-7(4-5)	↓	1440	↓	↓	↓	↓	↓	↓	↓	↓		07

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

PRESS DOWN FIRMLY - 3 COPIES

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.

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

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

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. 0120335

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