



**NC Department of Transportation
Preliminary Site Assessment
State Project: U-0209B
WBS Element: 34749.1.1**

**Oxford Homes LLC Property
Parcel #12
August 18, 2010**

**AMEC Earth and Environmental, Inc. of North Carolina
AMEC Project: 562110209**



Troy L. Holzschuh
Engineering Technician



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





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1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Request for Proposal, dated May 26, 2010, AMEC Earth and Environmental, Inc. of North Carolina (AMEC) has performed a Preliminary Site Assessment (PSA) for the Oxford Homes LLC Property (the Site) to be effected by a road improvement project along US Highway (Hwy) 74, Independence Blvd. Oxford Homes LLC owns the property, which is identified as Parcel #12 within the NCDOT U-0209B design project. The property, located on the east side of US Hwy 74 near the intersection with Sharon Amity Road, is in Charlotte of Mecklenburg County, North Carolina. The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated June 16, 2010.

NCDOT contracted AMEC to perform a PSA on the Oxford Homes LLC Property due to historical aerial photography indicating the property once operated as a gas station. The Site currently operates as House of Carpet and Interiors, a carpet and tile outlet. The PSA was performed to determine if soils have been impacted by petroleum compounds as a result of past or present uses of the property. The investigation was specifically completed to determine the presence or absence of petroleum hydrocarbons along the proposed 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 Oxford Homes LLC Property is located on the eastern side of US Hwy 74, at the intersection of Sharon Amity Road in Charlotte, Mecklenburg County, North Carolina. It is located within the Metamorphic sediments of the Charlotte and Milton Belt Physiographic Province of western North Carolina. Figure 1 shows the site location and vicinity.

AMEC studied the NCDENR UST Database for Incident Management and Registered Facilities and did not find any incidents reported for this site.

1.2 Site Description

One multi-level building (partial single story and partial two-story) occupies the Site. The proposed road expansion will traverse the entire western property edge of Parcel #12 along US Hwy 74 and a portion of the southern property edge along Sharon Amity Road. No underground storage tanks (UST) or monitoring wells are located at this facility. Appendix A includes a photo log for Parcel #12.

All adjacent properties are commercial. North of the Site is the Speaker Doctor, east is Enterprise Car rental, across Sharon Amity Road to the south is Wolf Camera and across US Hwy 74 to the west is Lanier Shopping Center (Parcel #17).

2.0 GEOLOGY

2.1 Regional Geology

The Oxford Homes LLC Property is located within the Metamorphic type of the Charlotte and Milton Belt Physiographic Province of western North Carolina. The Metavolcanic rock is interbedded felsic to mafic tuffs and flowrock.

2.2 Site Geology

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

Damp soils were typically encountered at 0.5 feet (ft) below ground surface (bgs).

3.0 FIELD ACTIVITIES

3.1 Preliminary Activities

Prior to commencing field sampling activities at the site, several tasks were accomplished in preparation for the subsurface investigation. The Health and Safety Plan (HSP) was modified to include the site-specific health and safety information necessary for the field activities. North Carolina-1-Call was contacted to facilitate the location of underground utilities in the vicinity of each parcel. A.E. Drilling Services, LLC (AE Drilling) of Greenville, South 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 during the period from June 14 to 24, 2010. The geophysical results were reviewed and discussed at the completion of each survey. A private utility locating company, Priority Underground Locating of Huntersville, North Carolina was subcontracted to clear the proposed drill locations that had been marked in the field by AMEC. Prism Laboratories, Inc. was contacted for acquisition of sample bottles. Soil boring locations were focused within the proposed expanded ROW, using a staggered soil boring placement pattern to optimize the likelihood of intercepting any potential soil contamination.

3.2 Site Reconnaissance

AMEC personnel completed site reconnaissance on June 3 and 29, 2010. During reconnaissance, the area was visually examined for the presence of any UST or areas/obstructions that could potentially affect the subsurface investigation. Boring locations were marked on July 2, 2010.

3.3 Geophysical Survey

Schnabel performed the geophysical surveys between June 14 and 29 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 do not indicate the presence of underground storage tanks (USTs) within the proposed expanded ROW. The complete report can be found in Appendix C.

3.4 Well Survey

No well survey was performed as part of this PSA and no water supply or monitoring wells were observed by AMEC on the site.

3.5 Soil Sampling

Soil boring occurred on July 7, 2010 at Parcel #12. Eight direct push soil borings were conducted within the proposed expanded ROW on Parcel #12. Figure 2 presents the Site Map with sample locations and identifications. These samples were located to optimize the likelihood of intercepting any potential soil contamination. The first boring (SB-1) was placed near the southern extent of the Site building, within the proposed expanded ROW. Soil borings SB-2 through SB-4 were obtained northwest of SB-1. SB-1 exhibited elevated PID readings; therefore soil borings SB-5 and SB-8 were placed nearby SB-1. Soil borings SB-6 and SB-7 were located along the proposed expanded ROW for Sharon Amity Road.

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. 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 July 7, 2010. The purpose of the sampling was to determine if releases of petroleum hydrocarbons had occurred, and if so, to estimate the volume of soil that might require special handling during construction activities. The sampling was accomplished using direct push methods accompanied by field screening for organic vapors with a PID. The laboratory results with PID readings are tabulated in Table 1 and shown on Figure 3.

A minimum of one soil sample was collected from each of the 8 completed soil borings from Parcel #12. Typically, when impacted soil is identified, additional soil samples are obtained. PID readings warranted the addition of soil samples P12-SB-5 and P12-SB-8. Analyses of soil samples for DRO and GRO indicated one boring location with a concentration of either the 10 mg/kg NCDENR Initial Action Level for TPH in soil. This was sample P12-SB-2 at the 6-7 ft bgs interval that was reported with 54 mg/kg DRO and 26 mg/kg GRO. This boring location was near the northern end of the proposed expanded ROW along US 74.

The estimated area of soil contamination has been drawn in Figure 4 and it corresponds to 591 square feet. Using the depth to the sample of 7 ft as the potential thickness of the impacted soil a volume of 4,137 cubic feet or 153 cubic yards was calculated.

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 July 7, 2010.

- Historical aerials indicate that the property functioned as a gas station in 1966.
- Laboratory analyses of soil samples confirmed one DRO concentration of >10 mg/kg NC Action Level in soil boring SB-2
- Laboratory analyses of soil samples confirmed one GRO concentration of >10 mg/kg NC Action Level in the same soil boring SB-2.
- The estimated volume of soil contamination is 153 cubic yards.

6.0 RECOMMENDATIONS

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

- Segregation during soil excavation with proper disposal of potentially petroleum-impacted soil during roadway improvement construction operations.

TABLES

Table 1
Soil Sampling Analytical Results, DRO-GRO
Parcel 12, Oxford Homes Property (Carpet and Tile Gallery)
NC DOT
Charlotte, 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
P12-SB-1	7/7/2010	4 - 5	673	<9.2	<4.7
P12-SB-2	7/7/2010	6 - 7	324	54	26
P12-SB-3	7/7/2010	5 - 6	0	<9.1	<5.0
P12-SB-4	7/7/2010	4 - 5	0	<8.4	<4.1
P12-SB-5	7/7/2010	4 - 5	0	<9.9	<5.8
P12-SB-6	7/7/2010	4 - 5	0	<8.9	<4.9
P12-SB-7	7/7/2010	4 - 5	0	<9.7	<5.3
P12-SB-8	7/7/2010	4 - 5	0	<10	<6.4

NOTES:

bgs = below ground surface; ppm = parts per million

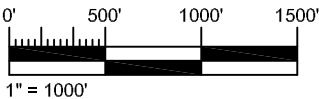
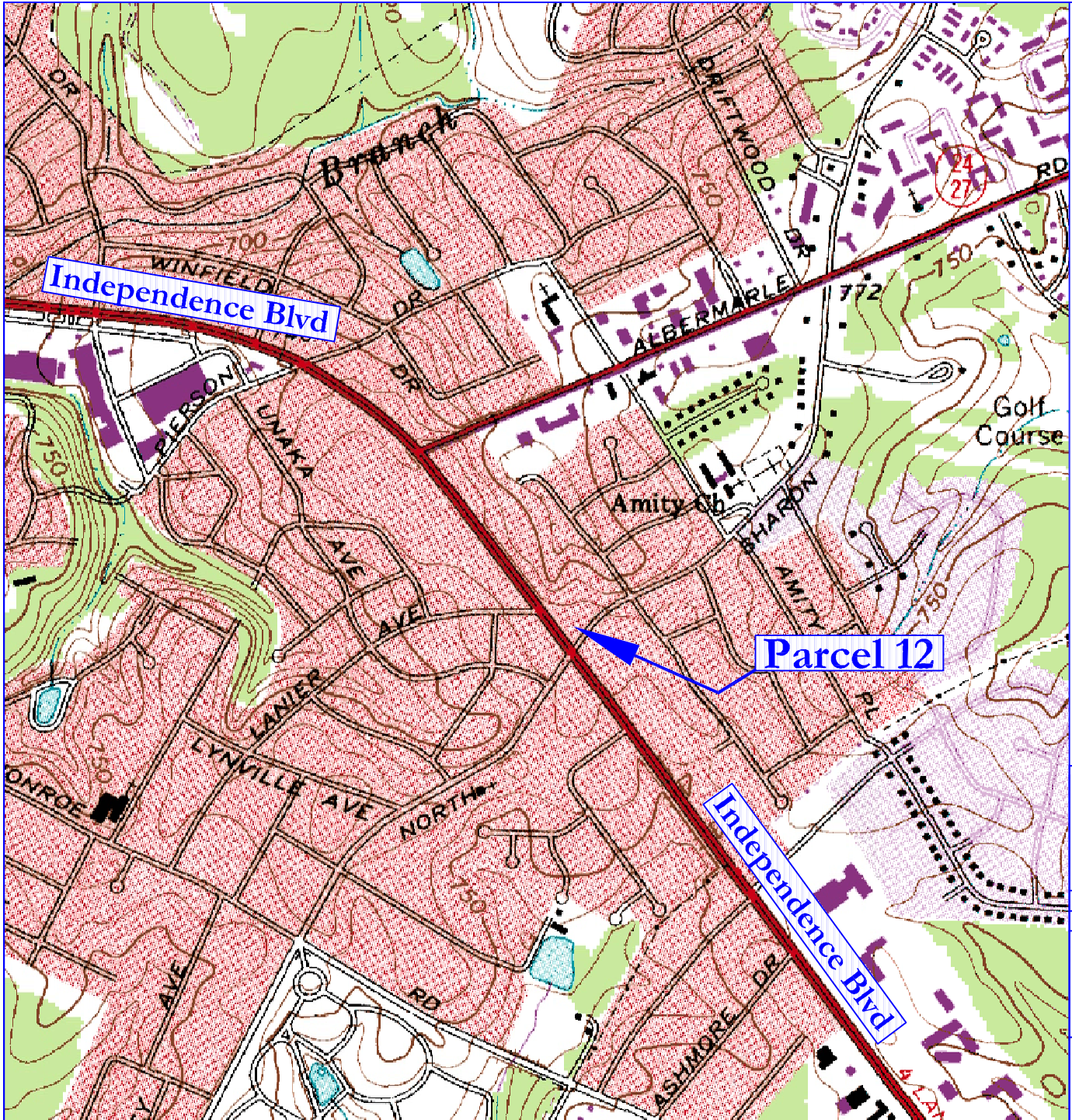
Bold Concentrations Exceed Action Levels

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

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

FIGURES



7.5 Minute Quadrangle
 North Carolina, 1983
 Photorevised 1993

VICINITY MAP

Parcel #12, Oxford Homes LLC Property
 (Carpet and Tile Gallery)
 Mecklenburg County, NC

DRAWING NAME: J:\NCDOT\Independence\FIC1	DATE: 10/16/10
SCALE: 1 INCH = 1,000 FEET	DR TLH CHK HPC REV

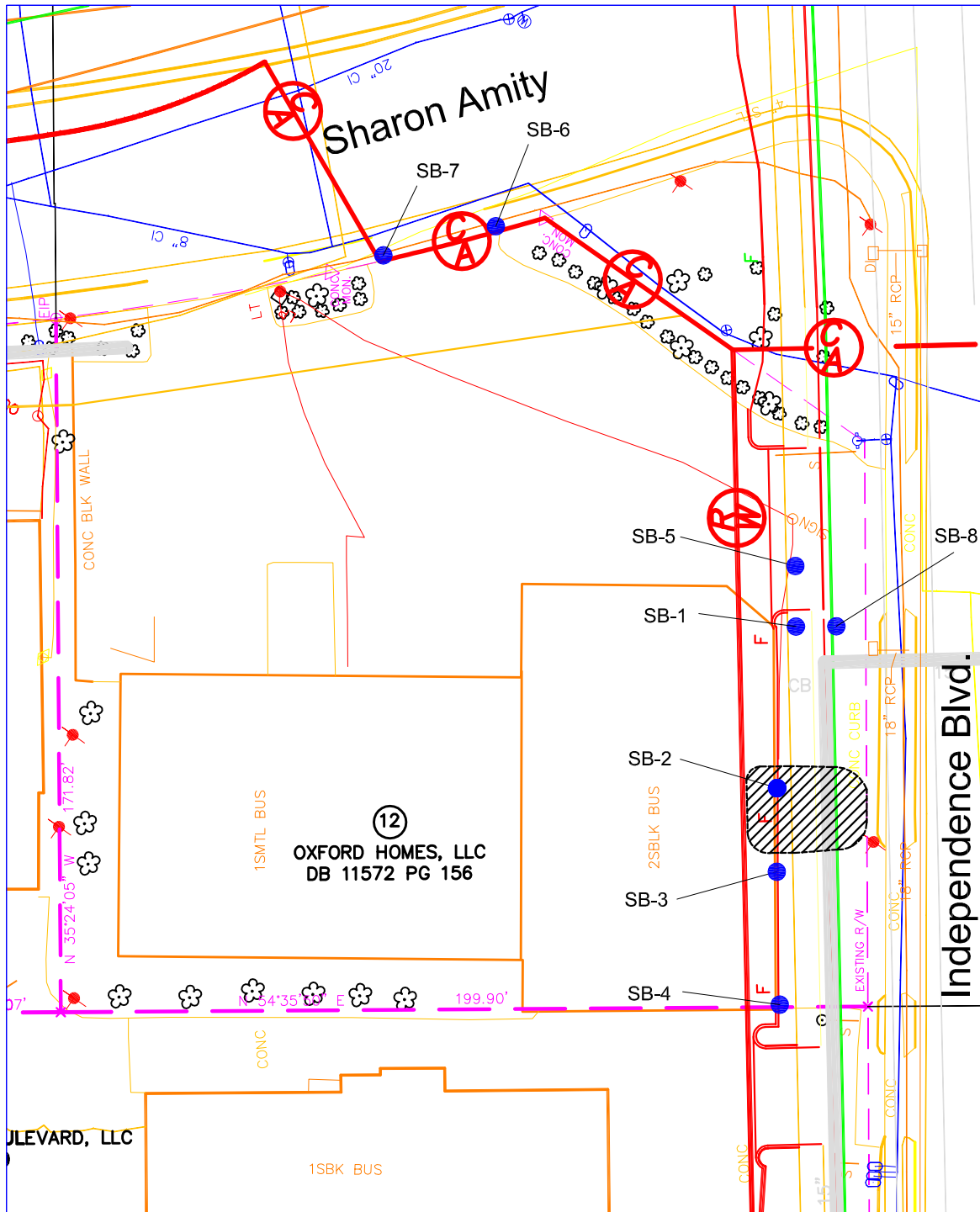
PREPARED FOR:
 NC Department Of Transportation
 Geotechnical Unit
 WBS Element: 34749.1.1
 TIP# U-0209B

Prepared By:



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

Figure: Figure 1



LEGEND



Proposed Right of Way



Existing Right of Way



Property Boundaries



Cut/Fill Line



Cut/Fill Line



Boring Locations

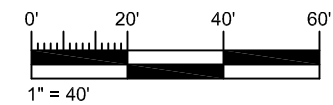
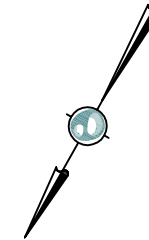
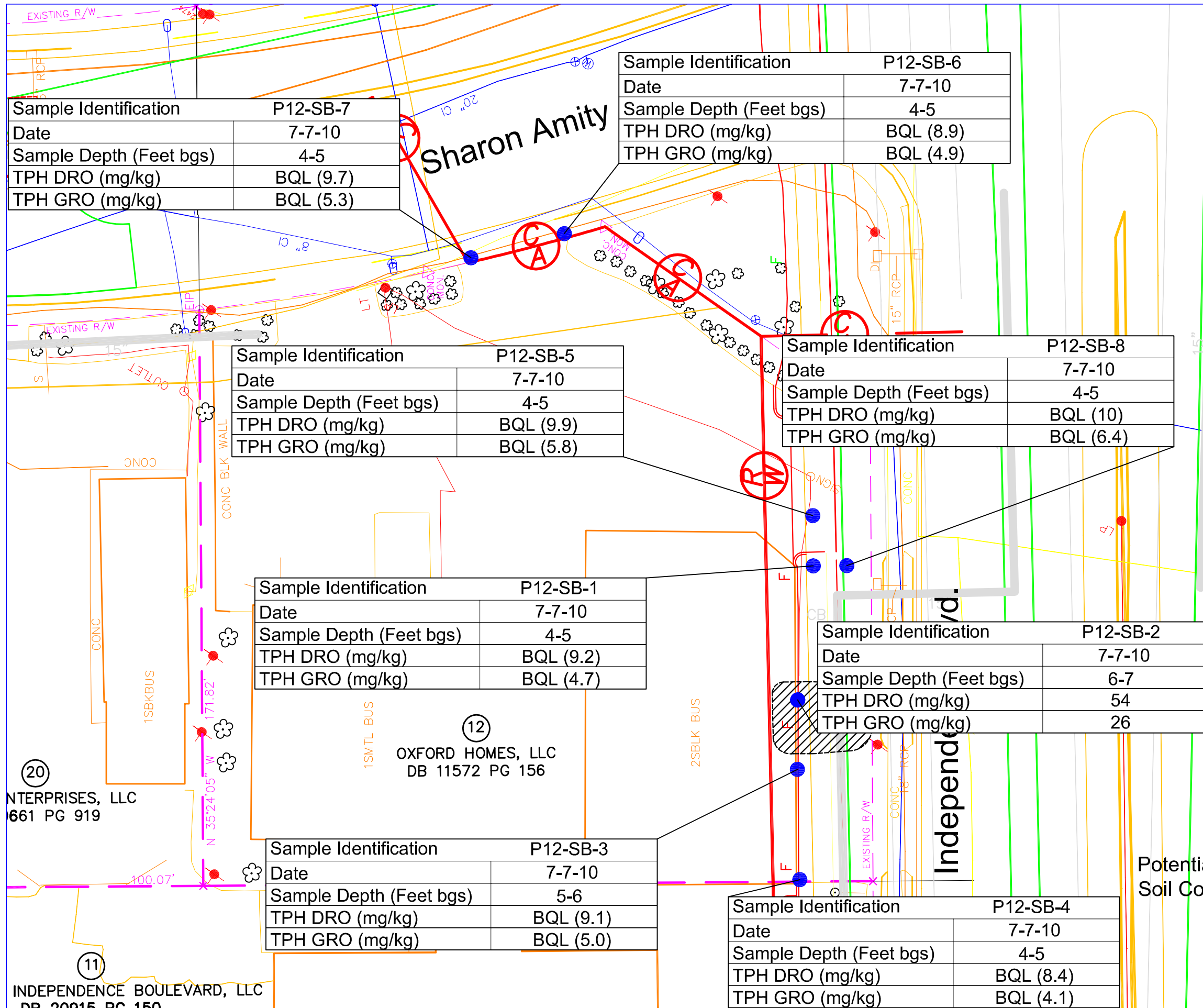


Figure 2
 Site Map With Sample Locations
 Parcel 12 Oxford Homes LLC Property
 (Carpet and Tile Gallery)




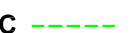


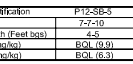
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 TIP# U-0209B



EARTH & ENVIRONMENTAL, INC.
 338 North Elm Street, Suite 112
 Greensboro, NC 27401
 (336) 691-5398



LEGEND

-  Proposed Right of Way
-  Existing Right of Way
-  Property Boundaries
-  Cut/Fill Line
-  Cut/Fill Line
-  Boring Locations
-  Analytical Data Box
- (BQL)* Below Quantitative Limits

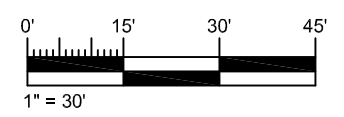
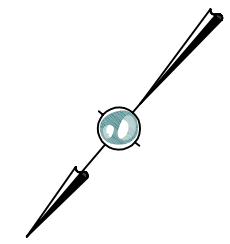
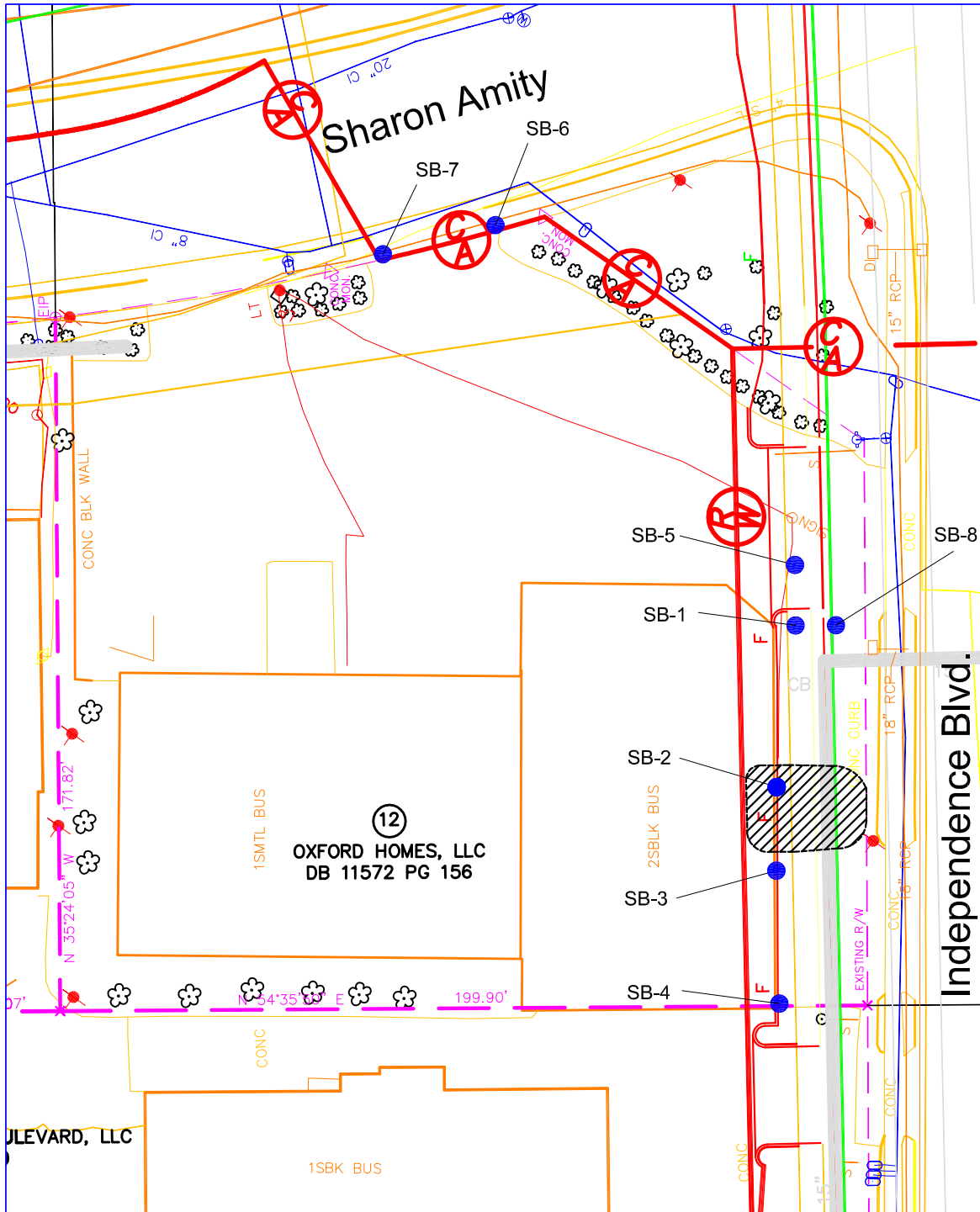


Figure 3
 Site Map With Analytical Data
 Parcel 12 Oxford Homes LLC Property
 (Carpet and Tile Gallery)

NC Department of Transportation
 Geotechnical Unit
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 TIP# U-0209B



LEGEND

- Proposed Right of Way
- Existing Right of Way
- Property Boundaries
- Cut/Fill Line
- Cut/Fill Line
- Boring Locations
- Area of Contamination

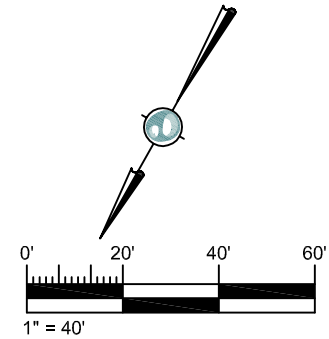


Figure 4
 Site Map With Potential Area of Contamination
 Parcel 12 Oxford Homes LLC Property
 (Carpet and Tile Gallery)

NC Department of Transportation
 Geotechnical Unit
 WBS Element: 34749.1.1
 TIP# U-0209B

APPENDIX A

PHOTO LOG



Photo 1

Viewing west from the south-central portion of the site. Boring locations were placed close to the building due to photographic evidence that showed a former pump island under the current building location.



Photo 2

Viewing east-northeast toward Sharon Amity from the south central portion of the site. One boring was placed on either side of the entrance. These two boring locations were chosen to due photographic evidence indicating a former pump island being located north of the entrance.



338 North Elm Street, Suite 112
Greensboro, North Carolina 27401

W.O. 562110209
PROCESSED TLH
DATE July 2010
PAGE 1

PHOTOGRAPHIC LOG

Preliminary Site Assessment
Parcel 12 Oxford Homes LLC Property (Carpet &
Tile Gallery) Independence Blvd. Charlotte, NC

APPENDIX B
BORING LOGS



AMEC Earth & Environmental, Inc.

BORING LOG

Boring/Well No.: P12-SB2

Site Name: Parcel 12

Date: 7-7-10

Location: Charlotte, Mecklenburg Co., NC

Job No.: 562110209

Sample Method: Direct Push

AMEC Rep: Troy Holzschuh

Drilling Method: Direct Push

Drilling Company: A.E. Drilling

Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-2	0.5		Red/Yellow, Well Sorted, Clayey Silt, Damp
2-6	22.6		Red/Orange, Well Sorted, Clayey Silt, Damp
6-10	324		Orange/Yellow, Well Sorted, Marbled 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.: P12-SB3	Site Name: Parcel 12
Date: 7-7-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-7	0		Orange, Well Sorted, Clayey Silt, Damp
7-10	0		Brown/Orange, Well Sorted, Marbled 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.: P12-SB4	Site Name: Parcel 12
Date: 7-7-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

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
2-6	0		Yellow, Well Sorted, Clayey Silt, Damp
6-10	0		Orange/Brown, 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.: P12-SB5	Site Name: Parcel 12
Date: 7-7-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-7	0		Red, Well Sorted, Clayey Silt, Damp
7-10	0		Orange/Yellow, Well Sorted, Marbled 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.: P12-SB6	Site Name: Parcel 12
Date: 7-7-10	Location: Charlotte, Mecklenburg Co., NC
Job No.: 562110209	Sample Method: Direct Push
AMEC Rep: Troy Holzschuh	Drilling Method: Direct Push
Drilling Company: A.E. Drilling	Driller Name/Cert #: John Gorman - 3485

Remarks:

Depth (ft BLS)	PID/OVA Reading (ppm)	Blow Counts	Soil/Lithologic Description
0-0.5			Asphalt/Aggregate
0.5-6	0		Orange, Well Sorted, Clayey Silt, Damp
6-10	0		Orange/Yellow, Well Sorted, Marbled 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:

APPENDIX C
GEOPHYSICAL SURVEY REPORT



July 12, 2010

Ms. Helen Corley, LG
AMEC Earth & Environmental of North Carolina, Inc.
338 North Elm Street, Suite 112
Greensboro, North Carolina 27401

RE: State Project: U-0209B
 WBS Element: 34749.1.1
 County: Mecklenburg
 Description: Charlotte – US 74 (Independence Boulevard) from NC 24-27 (Albemarle Road) to Idlewild Road

**Subject: Project 09210013.25, Report on Geophysical Surveys
 Parcel 12, Mecklenburg 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 site. The report includes one 11x17 color figure.

INTRODUCTION

The work described in this report was conducted on June 14, 15, 16, 22, 23, 24, and 29, 2010, by Schnabel under our 2009 contract with the NCDOT. The work was conducted within the accessible areas of the proposed right-of-way and/or easement as indicated on the NCDOT's preliminary plan sheets to support their environmental assessment of Parcel 12 (Oxford Homes LLC Property). The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines 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.

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 (manholes, 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 anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of UST's. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

Preliminary results for Parcel 12 were sent to Helen Corley and Troy Holzschuh of AMEC and Ethan Caldwell of the NCDOT on July 2, 2010.

DISCUSSION OF RESULTS

We used a rental EM61 for the data collection on this project. We discovered that this rental unit had an intermittent short in the top coil, which made the differential data unreliable. The data collected from just the bottom coil was not affected by this problem. Only the early time gate data collected from the bottom coil were used to determine anomalous locations to survey with GPR.

The contoured early time gate EM61 data for Parcel 12 are shown on Figure 1. The early time gate data provide the more sensitive detection of metal objects. The early time gate results show anomalies apparently caused by buried utilities or known site features (Figure 1). The GPR data collected at the site do not indicate the presence of metallic UST's within the right-of-way and/or easement.

CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 12 on Project U-0209B in Charlotte, NC indicates the following:

The geophysical data do not indicate the presence of metallic UST's in the areas surveyed on Parcel 12.

LIMITATIONS

These services have been performed and this report prepared for AMEC Earth & 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

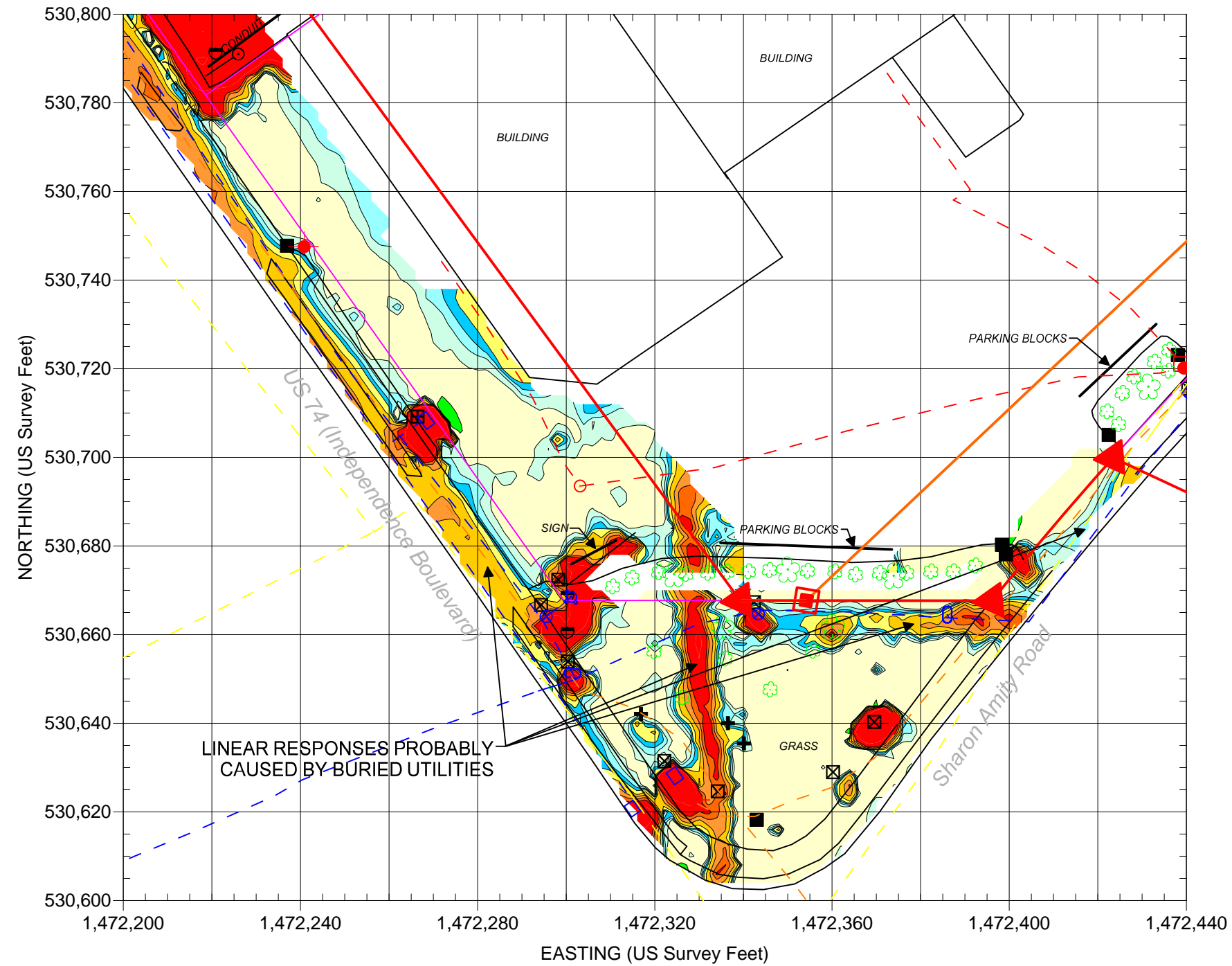


Edward D Billington, LG
Senior Vice President

JS:JW:NB

Attachments: Figure 1

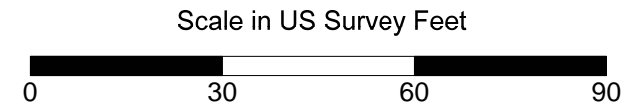
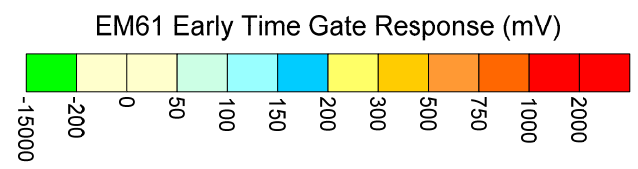
FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.25 (U-0209B, MECKLENBURG CO.)\REPORT\PARCEL 12\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 12.DOCX



EXPLANATION

	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY MANHOLE, METER, BOX, ETC.
	LIGHT POLE
	STORM SEWER INLET
	UST LID
	MONITORING WELL
	DOT PROPOSED RW
	DOT PROPOSED UTILITY EASEMENT
	PROPERTY LINE
	UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT (VARIOUS COLORS))
	EXAMPLE GPR LINE LOCATION
	GPR SURVEY AREA
	LOCATION OF KNOWN UST MARKED ON SITE

REF.: NCDOT FILE: u-0209b_rdy_psh_06_rwa.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 June 14 through June 16, 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 June 22 through June 24, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	<p>STATE PROJECT U-0209B NC DEPARTMENT OF TRANSPORTATION MECKLENBURG COUNTY, NC PROJECT NO. 09210013.25</p>	<p>PARCEL 12 EM61 EARLY TIME GATE RESPONSE</p> <p style="text-align: right;">FIGURE 1</p>
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APPENDIX D

LABORATORY ANALYTICAL RESULTS

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

Project: NCDOT: Independence Blvd. Parcel 12
Project No.: WBS #34749.1.1
Lab Submittal Date: 07/07/2010
Prism Work Order: 0070209

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 control 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
P12-SB-1 (4-5)	0070209-01	Solid	07/07/10	07/07/10
P12-SB-2 (6-7)	0070209-02	Solid	07/07/10	07/07/10
P12-SB-3 (5-6)	0070209-03	Solid	07/07/10	07/07/10
P12-SB-4 (4-5)	0070209-04	Solid	07/07/10	07/07/10
P12-SB-5 (4-5)	0070209-05	Solid	07/07/10	07/07/10
P12-SB-6 (4-5)	0070209-06	Solid	07/07/10	07/07/10
P12-SB-7 (4-5)	0070209-07	Solid	07/07/10	07/07/10
P12-SB-8 (4-5)	0070209-08	Solid	07/07/10	07/07/10

Samples received in good condition at 5.4 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: Independence Blvd.
 Parcel 12
 Project No.: WBS #34749.1.1
 Sample Matrix: Solid

Client Sample ID: P12-SB-1 (4-5)
 Prism Sample ID: 0070209-01
 Prism Work Order: 0070209
 Time Collected: 07/07/10 10:15
 Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	7/15/10 22:43	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			100 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.7	0.62	50	*8015C	7/16/10 16:05	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			86 %		55-129	
General Chemistry Parameters									
% Solids	76.2	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226

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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-2 (6-7)
Prism Sample ID: 0070209-02
Prism Work Order: 0070209
Time Collected: 07/07/10 10:30
Time Submitted: 07/07/10 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	54	mg/kg dry	10	1.7	1	*8015C	7/15/10 23:18	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			95 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	26	mg/kg dry	5.4	0.70	50	*8015C	7/16/10 17:19	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			125 %		55-129	
General Chemistry Parameters									
% Solids	66.7	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226

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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-3 (5-6)
Prism Sample ID: 0070209-03
Prism Work Order: 0070209
Time Collected: 07/07/10 10:45
Time Submitted: 07/07/10 12:55

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	9.1	1.5	1	*8015C	7/15/10 23:54	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			97 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.0	0.64	50	*8015C	7/16/10 18:52	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			86 %		55-129	

General Chemistry Parameters

% Solids	76.6	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226
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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-4 (4-5)
Prism Sample ID: 0070209-04
Prism Work Order: 0070209
Time Collected: 07/07/10 11:15
Time Submitted: 07/07/10 12:55

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	8.4	1.4	1	*8015C	7/16/10 0:29	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			96 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.1	0.54	50	*8015C	7/16/10 19:24	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			104 %		55-129	

General Chemistry Parameters

% Solids	82.9	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226
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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-5 (4-5)
Prism Sample ID: 0070209-05
Prism Work Order: 0070209
Time Collected: 07/07/10 11:35
Time Submitted: 07/07/10 12:55

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	9.9	1.8	1	*8015C	7/16/10 1:40	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			88 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.8	0.75	50	*8015C	7/16/10 19:54	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			109 %		55-129	

General Chemistry Parameters

% Solids	63.5	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226
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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-6 (4-5)
Prism Sample ID: 0070209-06
Prism Work Order: 0070209
Time Collected: 07/07/10 11:50
Time Submitted: 07/07/10 12:55

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	8.9	1.4	1	*8015C	7/16/10 2:15	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			84 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.9	0.63	50	*8015C	7/16/10 20:26	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			111 %		55-129	

General Chemistry Parameters

% Solids	78.5	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226
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AMEC Earth & Env. Inc.(DOT Gree)
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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-7 (4-5)
Prism Sample ID: 0070209-07
Prism Work Order: 0070209
Time Collected: 07/07/10 12:00
Time Submitted: 07/07/10 12:55

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	9.7	1.6	1	*8015C	7/16/10 2:51	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			83 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.3	0.68	50	*8015C	7/16/10 20:57	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			117 %		55-129	

General Chemistry Parameters

% Solids	71.9	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226
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AMEC Earth & Env. Inc.(DOT Gree)
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Project: NCDOT: Independence Blvd.
Parcel 12
Project No.: WBS #34749.1.1
Sample Matrix: Solid

Client Sample ID: P12-SB-8 (4-5)
Prism Sample ID: 0070209-08
Prism Work Order: 0070209
Time Collected: 07/07/10 12:20
Time Submitted: 07/07/10 12:55

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	10	1.7	1	*8015C	7/16/10 3:26	JMV	P0G0263
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			89 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.4	0.83	50	*8015C	7/16/10 21:28	HPE	P0G0310
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			88 %		55-129	

General Chemistry Parameters

% Solids	67.4	% by Weight	0.100	0.100	1	*SM2540 G	7/13/10 14:30	JAB	P0G0226
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Greensboro, NC 27401

Project: NCDOT: Independence Blvd.
Parcel 12
Project No: WBS #34749.1.1

Prism Work Order: 0070209
Time Submitted: 7/7/10 12:55:00PM

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 P0G0310 - 5035										
Blank (P0G0310-BLK1)										
Prepared & Analyzed: 07/16/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.60		mg/kg wet	5.00		92	55-129			
LCS (P0G0310-BS1)										
Prepared & Analyzed: 07/16/10										
Gasoline Range Organics	45.6	5.0	mg/kg wet	50.0		91	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.25		mg/kg wet	5.00		105	55-129			
LCS Dup (P0G0310-BSD1)										
Prepared & Analyzed: 07/16/10										
Gasoline Range Organics	46.2	5.0	mg/kg wet	50.0		92	67-116	1	200	
Surrogate: a,a,a-Trifluorotoluene	5.30		mg/kg wet	5.00		106	55-129			
Matrix Spike (P0G0310-MS1)										
Source: 0070209-01 Prepared & Analyzed: 07/16/10										
Gasoline Range Organics	51.9	6.6	mg/kg dry	65.6	BRL	79	57-113			
Surrogate: a,a,a-Trifluorotoluene	5.84		mg/kg dry	6.56		89	55-129			
Matrix Spike Dup (P0G0310-MSD1)										
Source: 0070209-01 Prepared & Analyzed: 07/16/10										
Gasoline Range Organics	51.6	6.6	mg/kg dry	65.6	BRL	79	57-113	0.6	23	
Surrogate: a,a,a-Trifluorotoluene	5.97		mg/kg dry	6.56		91	55-129			

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Project: NCDOT: Independence Blvd.
Parcel 12
Project No: WBS #34749.1.1

Prism Work Order: 0070209
Time Submitted: 7/7/10 12:55:00PM

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 P0G0263 - 3545A										
Blank (P0G0263-BLK1)										
					Prepared: 07/14/10 Analyzed: 07/15/10					
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.50		mg/kg wet	1.60		94	49-124			
LCS (P0G0263-BS1)										
					Prepared: 07/14/10 Analyzed: 07/15/10					
Diesel Range Organics	64.4	7.0	mg/kg wet	79.8		81	55-109			
Surrogate: <i>o</i> -Terphenyl	2.02		mg/kg wet	1.60		127	49-124			A
LCS Dup (P0G0263-BSD1)										
					Prepared: 07/14/10 Analyzed: 07/16/10					
Diesel Range Organics	59.5	7.0	mg/kg wet	79.9		74	55-109	8	200	
Surrogate: <i>o</i> -Terphenyl	1.81		mg/kg wet	1.60		113	49-124			

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Project: NCDOT: Independence Blvd.
Parcel 12
Project No: WBS #34749.1.1

Prism Work Order: 0070209
Time Submitted: 7/7/10 12:55:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0226 - NO PREP										
Duplicate (P0G0226-DUP1) Source: 0070209-03 Prepared & Analyzed: 07/13/10										
% Solids	75.5	0.100	% by Weight		76.6			1	20	

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0070209-01	P0G0263	25 g	1 mL	07/14/10
0070209-02	P0G0263	25.04 g	1 mL	07/14/10
0070209-03	P0G0263	25.11 g	1 mL	07/14/10
0070209-04	P0G0263	25.08 g	1 mL	07/14/10
0070209-05	P0G0263	25.09 g	1 mL	07/14/10
0070209-06	P0G0263	25.13 g	1 mL	07/14/10
0070209-07	P0G0263	25.04 g	1 mL	07/14/10
0070209-08	P0G0263	25.19 g	1 mL	07/14/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0070209-01	P0G0310	6.92 g	5 mL	07/16/10
0070209-02	P0G0310	6.92 g	5 mL	07/16/10
0070209-03	P0G0310	6.59 g	5 mL	07/16/10
0070209-04	P0G0310	7.28 g	5 mL	07/16/10
0070209-05	P0G0310	6.78 g	5 mL	07/16/10
0070209-06	P0G0310	6.53 g	5 mL	07/16/10
0070209-07	P0G0310	6.61 g	5 mL	07/16/10
0070209-08	P0G0310	5.81 g	5 mL	07/16/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0070209-01	P0G0226	30 g	30 mL	07/13/10
0070209-02	P0G0226	30 g	30 mL	07/13/10
0070209-03	P0G0226	30 g	30 mL	07/13/10
0070209-04	P0G0226	30 g	30 mL	07/13/10
0070209-05	P0G0226	30 g	30 mL	07/13/10
0070209-06	P0G0226	30 g	30 mL	07/13/10
0070209-07	P0G0226	30 g	30 mL	07/13/10
0070209-08	P0G0226	30 g	30 mL	07/13/10



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6564 • Fax: 704/529-0409

Client Company Name: AMEL EARL

Report To/Contact Name: Helen Earley

Reporting Address: 388 Helen St
Greensboro, NC 27401

Phone: 336-691-5348 Fax (Yes) (No):

Email (Yes/No) Email Address: helen.earley@swarc.com

EDD Type: PDF Excel Other

Site Location Name: Parcel 12

Site Location Physical Address:

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Independence Blvd

Short Hold Analysis: (Yes) (No) Yes (No) UST Project: (Yes) (No) Yes (No)

*Please ATTACH any project specific reporting (QC LEVEL I III IIII IV) provisions and/or QC Requirements

Invoice To: Helen Earley

Address: same

Purchase Order No./Billing Reference WBS 34749.1.1

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

Samples INTACT upon arrival?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
Received ON WET ICE? Temp	<u>5°C</u>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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

Water Chlorinated: YES NO OTHER N/A

Sample Iced 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				
P12-SB-1(4-S)	2-7-10	1015	Soil	VOA	4	2var 2g		GRD		01
P12-SB-2(6-7)		1030						GRD		02
P12-SB-3(5-6)		1045								03
P12-SB-4(4-S)		1115								04
P12-SB-5(4-S)		1135								05
P12-SB-6(4-S)		1150								06
P12-SB-7(4-S)		1200								07
P12-SB-8(4-S)		1220								08

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): Troy H. Hirschman Affiliation: AMEL

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): [Signature] Received By (Signature): [Signature] Date: 2-7-10 Millen/Hours: 1:55

Relinquished By (Signature): [Signature] Received By (Signature): [Signature] Date: 7/7/10 Millen/Hours: 12:55

Relinquished By (Signature): [Signature] Received By (Signature): [Signature] Date: 7/7/10 Millen/Hours: 12:55

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.

Groundwater: NC SC SC

Drinking Water: NC SC

Solid Waste: NC SC

RCRA: NC SC

CERCLA: NC SC

Landfill: NC SC

Other: NC SC

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL