FROEHLING & ROBERTSON, INC.

PRELIMINARY SITE ASSESSMENT

PRIME INVESTMENT PARTNERS LLC PROPERTY (PARCEL #177)
5831 High Point Road
Greensboro, NC
State Project: U-2412B
WBS Element: 34802.1.1
August 17, 2011

Prepared for:

North Carolina Department of Transportation
Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, NC 27610

310 Hubert Street Raleigh, North Carolina 27603 919.828.3441

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FROEHLING & ROBERTSON, INC.

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NC License #F-0266

August 17, 2011

North Carolina Department of Transportation
Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

Attn.: Mr. Terry Fox, L.G.
GeoEnvironmental Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 029927 ENGINEER MICHAEL S. SABODISH, JR.
8-17-11

Re: State Project: U-2412B
WBS Element: 3802.1.1
Jamestown Bypass, Highpoint Road,Greensboro

Subject: **Preliminary Site Assessment**
Prime Investment Partners LLC Property (Parcel #177)
5831 High Point Road
Greensboro, NC

Dear Mr. Fox:

Froehling and Robertson, Inc. (F&R) has completed the authorized Preliminary Site Assessment at the Prime Investment Partners Property in Greensboro, North Carolina. The work was performed in general accordance with F&R's Proposal No. 1266-061E dated June 2, 2011. This report documents our field activities, presents the results of laboratory analysis and provides recommendations regarding the property.

Please do not hesitate to contact us if you should have any questions regarding this report.

Sincerely,

FROEHLING & ROBERTSON, INC.

Michael S. Sabodish, Jr., Ph.D., P.E.
Engineering and Remediation Services Manager

Christopher J. Burkhardt
Environmental Department Manager

TABLE OF CONTENTS

Preliminary Site Assessment Report
Prime Investment Partners LLC Property (Parcel #177)
Greensboro, Guilford County, North Carolina
F&R Project No. 66N-0055

1.0 Introduction

Froehling and Robertson, Inc. (F&R) has prepared this Preliminary Site Assessment Report (PSA) to document soil assessment activities performed at the Prime Investment Partners LLC Property (Parcel #177) addressed as 5831 High Point Road, Greensboro, Guilford County, North Carolina. The site is located on the south side of High Point Road approximately 0.25 miles southwest form the Suttonwood Drive Intersection (Appendix I, Figure 1). Currently, the site is being utilized as an Giovanni's Italian Restaurant. As indicated in the Request for Proposal (RFP), the site historically operated as a gas station. However, the property does not appear on the UST Section Registry. Groundwater Incident # 03703 was assigned to this facility, and State lead work was assigned to Terraine, Inc. who conducted a Limited Site Assessment at the property in 2008. The RFP notes that monitoring wells were not noted on site. This work was performed in general accordance with F&R's Proposal No. 1266-061E dated June 2, 2011. The purpose of this report is to document field activities, present the results of laboratory analysis, and provide recommendations regarding the property.

Based on conversations and information provided by the NCDOT, it has been determined that the proposed utility installation and roadway construction will impact the project site (See Figure No.3). As such, the NCDOT requested a Preliminary Site Assessment be performed to assess the possibility of encountering petroleum impacted soil from known or unknown USTs which may exist/existed at the project site. The site contains one building and a small outdoor dining area on the north side of the building. The property contains asphalt parking and drive areas on the south, east and west sides of the building. Photos detailing existing site features are attached as Appendix IV of this report.

2.0 Geophysical Survey

Prior to F&R's soil assessment activities, Schnabel Engineering conducted a geophysical survey of the project site to locate suspect metal underground storage tanks (USTs) in the accessible areas of the right-of-way and/or easement. The geophysical work was conducted on June 9 and 15, 2011 under Schnabel's 2009 contract with NCDOT.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. Ground-penetrating radar (GPR) investigations of selected EM61 anomalies

were investigated using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart, while the GPR data were collected along survey lines spaced 1 to 2 feet apart in orthogonal directions. The data was reviewed in the field to evaluate the possible presence of USTs and later transferred to a desktop computer for further review.

Based on the results of the geophysical survey, anomalies apparently caused by reinforced concrete, buried utilities and known site features were encountered. The GPR data collected at the site did not indicate the presence of metallic USTs within the areas surveyed. The complete geophysical report is attached as Appendix II.

3.0 Site Assessment Activities

F&R visited the site on July 5, 2011 to perform the Preliminary Site Assessment. The assessment consisted of advancing 5 borings into the soils at the project site. All of the borings were advanced in the frontage of the property between the planned PUE and High Point Road. Boring B-6 was advanced in the grass covered area northwest corner of the site, Borings B-7, B-8 and B-9 were advanced in the grass and asphalt area along the southern property line, while Boring B-10 was advanced in the asphalt area west of the existing building (Appendix I, Figure 3). The borings were advanced using direct-push technology (Geoprobe) to a depth of 12 feet below ground surface (bgs). Boring locations were determined by F&R staff based on the results of the geophysical survey, site features and proposed construction activities.

Soil sample cores from the borings (B-6 through B-10) were collected in disposable, 4-foot long acetate sleeves. The soil samples were visually/manually classified and screened in the field using a photo-ionization detector (PID) for evidence of petroleum hydrocarbons. Evaluation of VOC concentrations were performed using a MiniRae 2000 PID which produces results in parts per million (ppm). A representative soil sample was collected from one foot sections of each sleeve and placed in a re-sealable plastic bag and the vapors were then allowed to equilibrate in the headspace of the bag for approximately ten minutes prior to measurement with the PID. The measurements were collected by placing the probe tip into the headspace of the bag. PID measurements can be found in the Environmental Borings Logs in Appendix III.

The soil sample which exhibited the highest PID concentration or the sample at boring termination was submitted for laboratory analysis for diesel range organics (DRO) by EPA Method 3510 and gasoline range organics (GRO) by EPA Method 5030 with preparation by EPA Method 8015C.

The samples were collected in laboratory-supplied sample containers, placed in a cooler with ice, and delivered by courier to SGS North America, Inc. (SGS) in Wilmington, North Carolina following standard chain-of custody procedures.

4.0 Subsurface Conditions

As indicated in the attached Environmental Boring Logs (Appendix III), subsurface conditions from existing ground surface to boring termination at a depth of twelve feet included various layers of moist, red/brown and orange/red silty and sandy clays (USCS – CL); moist, red/orange clayey silts (USCS – MH) and moist, brown sandy silts and red/white silts (USCS – ML). The groundwater table was not encountered within the depths of the drilled borings, however, the soil samples appeared to be moist.

5.0 Analytical Results

As shown in the following table, petroleum hydrocarbons identified as DRO were encountered at three of the boring locations (B-8, B-9 and B-10) at depths ranging from two feet (Boring B-8) to eight feet (Boring B-9) feet below ground surface. The laboratory results indicate the soil samples collected from Borings B-8 and B-10 exceed the NC DENR Action level of 10 mg/kg for DRO. The laboratory results for the soil sample collected at Boring B-9 indicated DRO levels (9.88 mg/kg) just below the NC DENR Action Level. The laboratory analytical results can be found in the attached Appendix V of this report.

Table 1
Soil Sampling Analytical Results
Prime Investment Partners LLC Property (Parcel #177)
Guilford County, Greensboro, North Carolina

Sample ID	Sample Date	Sample Depth (ft bgs)	PID Reading (ppm)	EPA Method 8015B	
				DRO (mg/kg)	GRO (mg/kg)
B-6	7/5/11	1-2	3.8	ND	ND
B-7	7/5/11	10-11	3.4	ND	ND
B-8	7/5/11	2-3	3.6	**40.3**	ND
B-9	7/5/11	7-8	3.9	9.88	ND
B-10	7/5/11	6-7	2.4	**10.7**	ND
NC DENR Action Level				**10**	**10**

Notes:
ft bgs = feet below ground surface
ppm = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
ND = Not Detected
Bold indicates soil analytical results above NCDENR Action Levels
NCDENR Action Level determined from the North Carolina UST Section Guidelines for Assessment and Corrective Action

6.0 Conclusions and Recommendations

F&R conducted a PSA at the Prime Investment Partners LLC Property located at 5831 High Point Road, Greensboro, Guilford County, North Carolina. A geophysical investigation was performed by Schnabel Engineering to investigate the existence of unknown USTs at the site. Based on the results of the geophysical survey, it was determined that USTs were not present at the site. Five geoprobe borings were advanced in the vicinity of the proposed drainage areas at the front of the property within the PUE. Based on the results of laboratory testing, it has been determined that petroleum impacted soils exist in the vicinity of Borings B-8 and B-10 at concentrations above the NC DENR Action Level of 10 mg/kg. In addition, petroleum impacted soils were identified in the vicinity of Boring B-9 at a concentration of 9.88 mg/kg, which is just below the NC DENR Action Level.

In regards to the proposed construction, it is estimated that petroleum impacted soils may exist to depths of approximately 8 feet below existing ground surface based on laboratory analysis and PID readings at boring locations B-8, B-9 and B-10. Without knowing the invert elevations for the proposed drainage in these areas, it is difficult to accurately calculate the volume of petroleum impacted soil which may be encountered during construction. For estimating purposes, F&R assumes a utility excavation approximately four feet in width, 160 feet long (50' from B-8 to B-9 and 110' from B-9 to the northern property line) and a depth of eight feet below ground surface. The eight foot depth was chosen based on the deepest soil sample where contamination was observed. Using the above dimensions, it can be approximated that the volume of petroleum impacted soil which may be encountered to be 307 tons. Petroleum impacted soils that are removed should be properly managed and disposed of in accordance with all NCDENR rules and regulations.

It should be noted that a delineation of the soil contamination was not performed, as this was not included in the proposed scope of work. The above estimates are based on interpretations of soil

analytical results, PID readings and our experience with similar petroleum UST releases. The amount of impacted soil can only be determined after excavation or by advancing additional borings at the site to possibly delineate the extents (horizontal and vertical) of contamination.

7.0 Limitations

These services have been performed, under authorization of the North Carolina Department of Transportation for specific application on this project. These services have been performed in accordance with generally accepted environmental and hydrogeological practices. No other warranty, expressed or implied is made. As with any subsurface investigation, actual conditions exist only at the precise locations from which samples were taken. Certain inferences are based on the results of sampling and related testing to form a professional opinion of conditions in areas beyond those from which samples were taken. Our conclusions and recommendations are based upon information provided to us by others, our sampling and testing results and our site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Our observations are based upon conditions readily visible at the site at the time of our site visits.

Froehling & Robertson, Inc. by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety or the environment. In areas that require notification of local, state, or federal public agencies as required by law, it is the Client's responsibility to so notify.

APPENDIX I

Figure No. 1 – SITE VICINITY MAP

Figure No. 2 – TOPOGRPAHIC MAP

Figure No. 3 – BORING LOCATION PLAN

Figure No. 4 – ESTIMATED EXTENT OF SOIL CONTAMINATION

SITE VICINITY MAP

North

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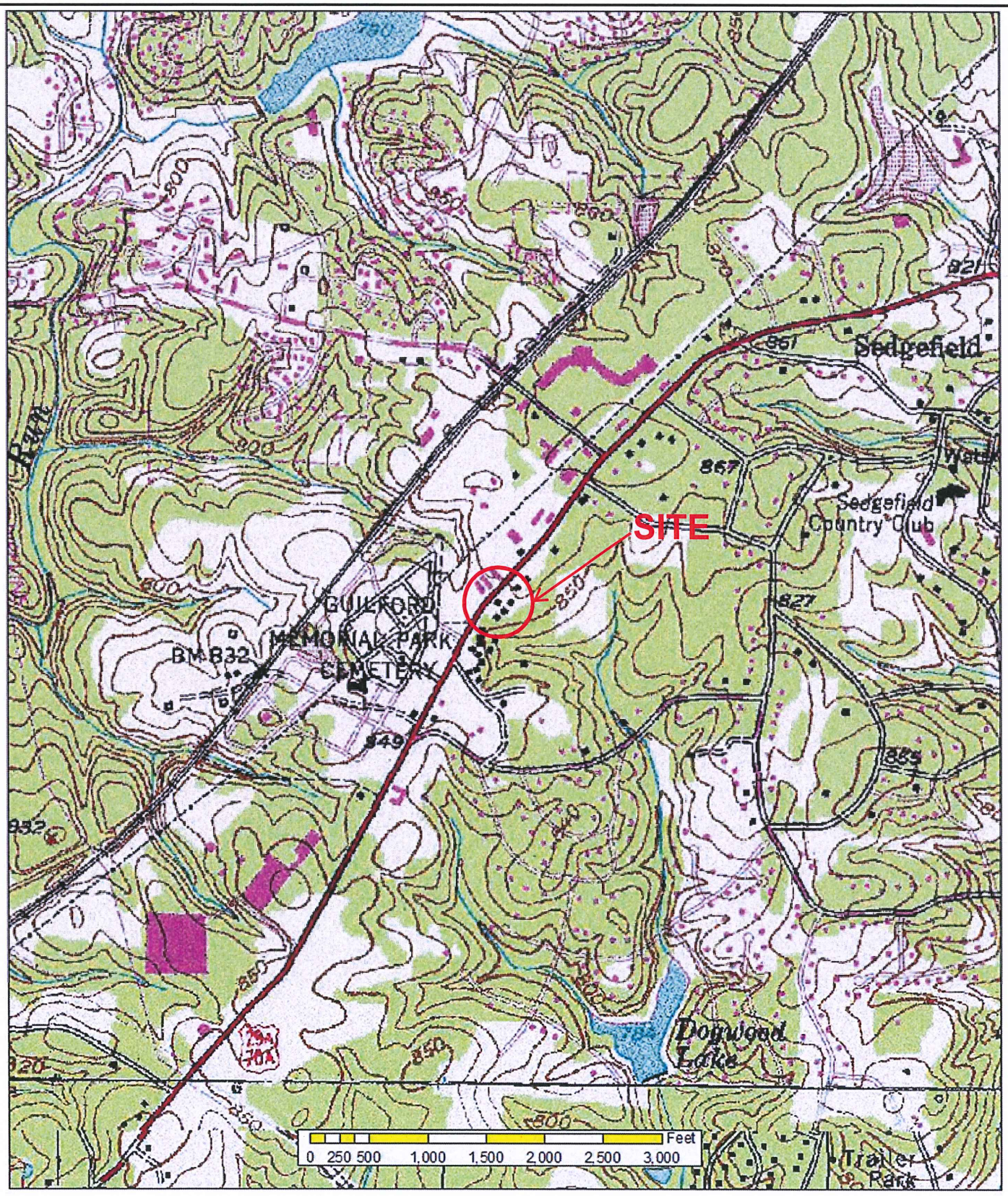
CLIENT: NCDOT	
PROJECT: Prime Investment Partners LLC Property (Parcel #177)	
LOCATION: Greensboro, Guilford County, North Carolina	
F&R PROJECT No.: 66M-0055	FIGURE No.: 1
DRAWN BY: M. Sabodish	
DATE: August 2011	SCALE: Not to scale



1 inch = 1,000 feet

TOPOGRAPHIC MAP

North

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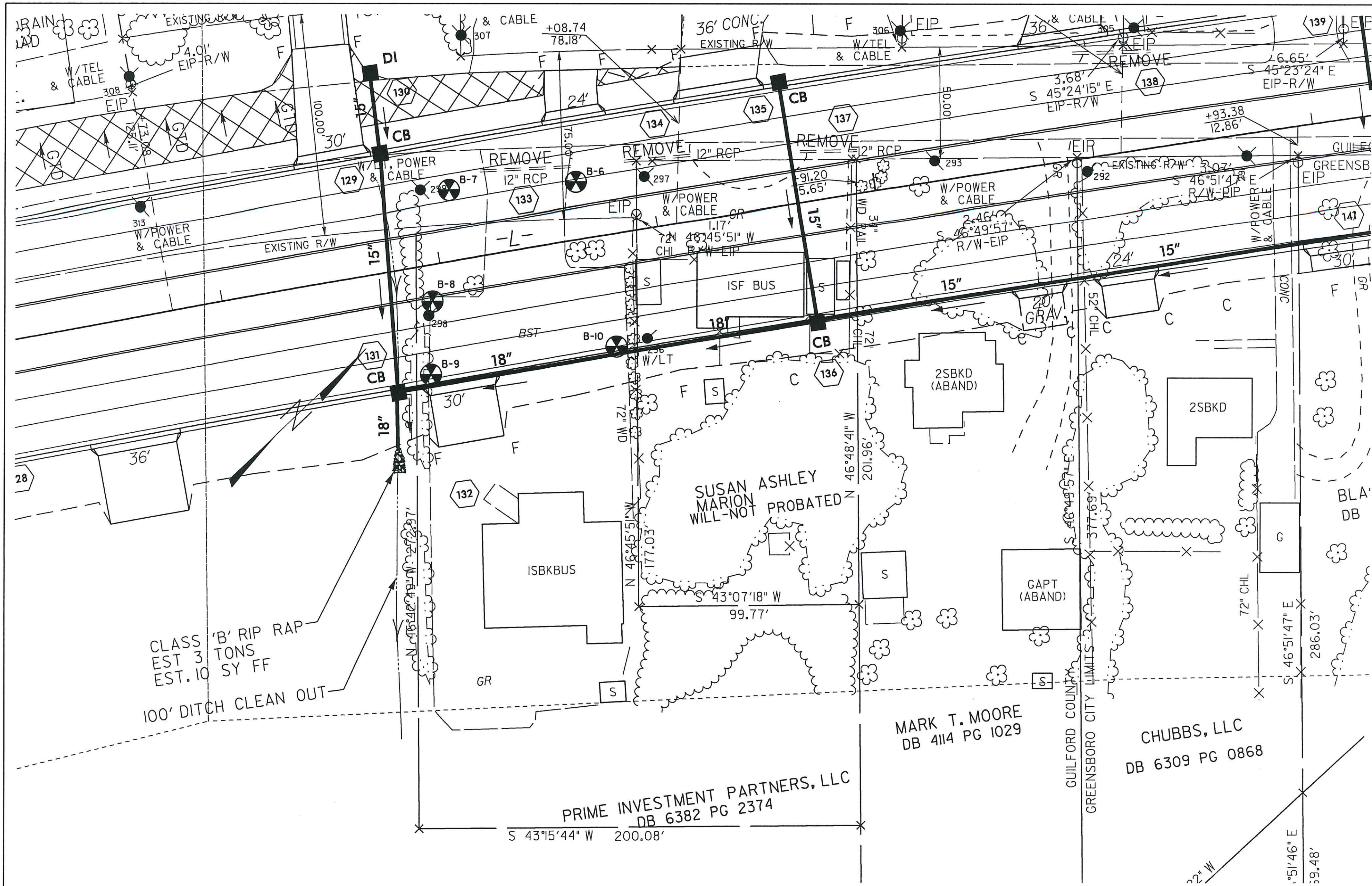
CLIENT: NCDOT	
PROJECT: Prime Investment Partners LLC Property (Parcel #177)	
LOCATION: Greensboro, Guilford County, North Carolina	
F&R PROJECT No.: 66M-0055	FIGURE No.: 2
DRAWN BY: M. Sabodish	
DATE: August 2011	SCALE: As Shown



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LEGEND

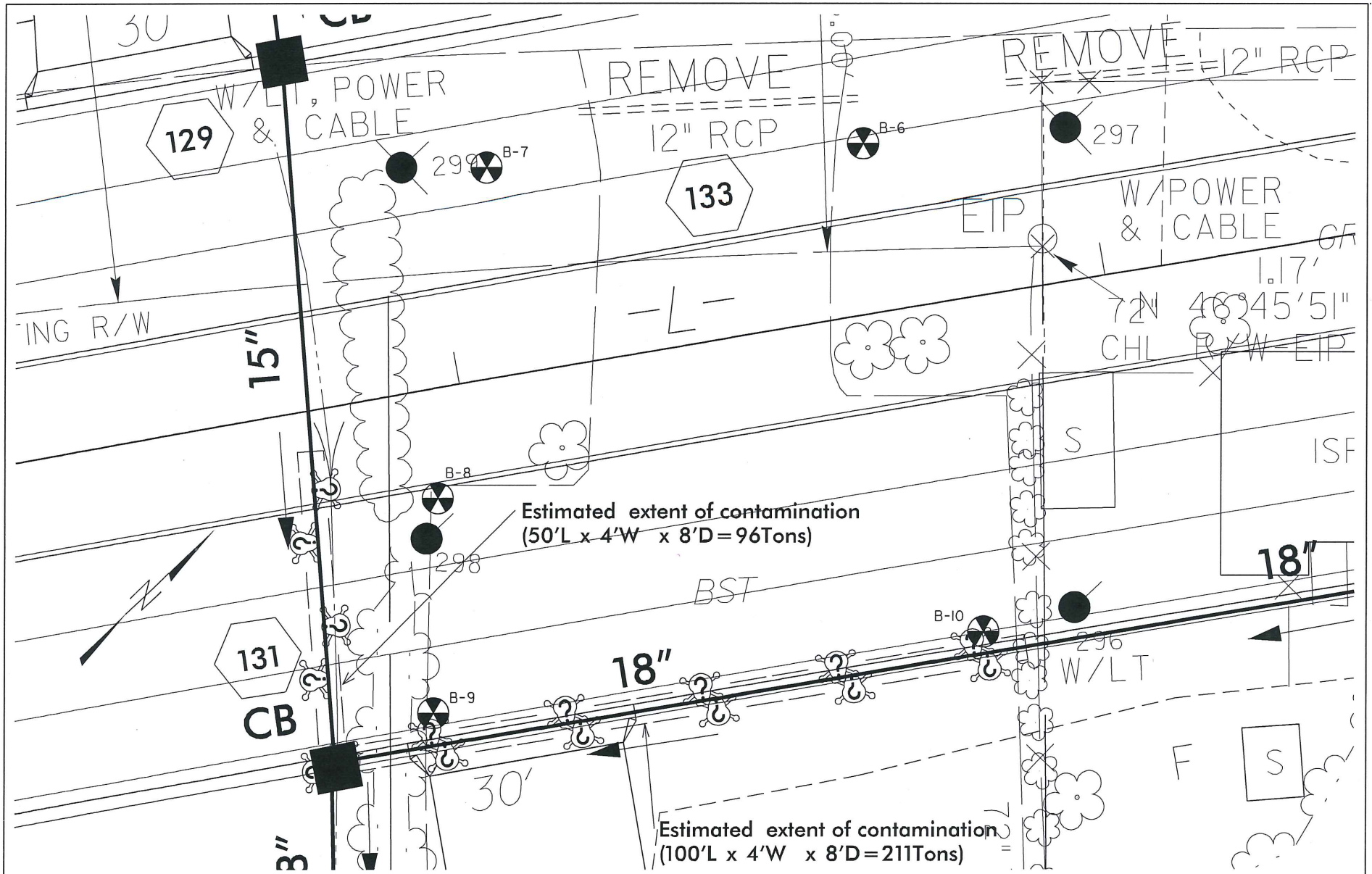
Approximate Geoprobe Boring Location

SCALE (FEET)
0 30' 60'
1"=60'

BORING LOCATION PLAN

CLIENT: NCDOT
PROJECT: Prime Investment Partners, LLC Property (Parcel #177)
LOCATION: Greensboro, Guilford County, North Carolina
F&R PROJECT No.: 66N-0055
DRAWN BY: D. Racey | CHECKED BY: M. Sabodish, P.E.
DATE: August 2011 | SCALE: 1"=60'

FIGURE No.: 3



SINCE F&R 1881 **FROEHLING & ROBERTSON, INC.** Engineering • Environmental • Geotechnical 310 Hubert Street Raleigh, North Carolina 27603-2302 | USA T 919.828.3441 | F 919.828.5751 www.fandr.com	**LEGEND** SCALE (FEET) 0 10' 20' 1"=20'	**ESTIMATED EXTENT OF SOIL CONTAMINATION** CLIENT: NCDOT PROJECT: Prime Investment Partners, LLC Property (Parcel #177) LOCATION: Greensboro, Guilford County, North Carolina F&R PROJECT No.: 66N-0055 DRAWN BY: D. Racey — CHECKED BY: M. Sabodish, P.E. DATE: August 2011 — SCALE: 1"=20' FIGURE No.: 4

APPENDIX II

GEOPHYSICAL REPORT PREPARED BY SCHNABEL ENGINEERING

Schnabel ENGINEERING

August 5, 2011

Mr. Christopher Burkhardt
Froehling & Robertson, Inc.
310 Hubert Street
Raleigh, NC 27603

RE:
State Project: U-2412B
WBS Element: 34802.1.1
County: Guilford
Description: Jamestown Bypass, High Point Road, Greensboro

Subject: **Project 09210013.42, Report on Geophysical Surveys (Revised)**
Parcel 177, Prime Investment Partners, LLC Property, Guilford County, North Carolina

Dear Mr. Burkhardt:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we conducted on the subject property. The report includes two 11x17 color figures and two 8.5x11 color figures.

INTRODUCTION

The work described in this report was conducted on June 9 and 15, 2011, by Schnabel under our 2009 contract with the NCDOT. The work was conducted over the accessible areas of the property as indicated by the NCDOT to support their environmental assessment of the subject property. Photographs of the property are included on Figure 1. The property is located on the south side of High Point Road approximately 0.25 miles southwest from the Suttonwood Drive intersection in Greensboro, NC. The purpose of the geophysical surveys was to locate suspect 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.

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11A Oak Branch Drive / Greensboro, NC / 27407

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 177 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-2412B in Greensboro, 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 Froehling & Robertson, 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:NB
Attachments: Figures (4)
FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.42 (U-2412B, GUILFORD COUNTY)\REPORT\PARCEL 177\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 177 (U-2412B).DOCX

Parcel 177 – Prime Investment Partners, LLC Property, looking southeast

Parcel 177 – Prime Investment Partners, LLC Property, looking east

Schnabel ENGINEERING	STATE PROJECT U-2412B NC DEPT. OF TRANSPORTATION GUILFORD CO., NORTH CAROLINA PROJECT NO. 09210013.42	PARCEL 177 SITE PHOTOS FIGURE 1

Geonics EM61-MK2

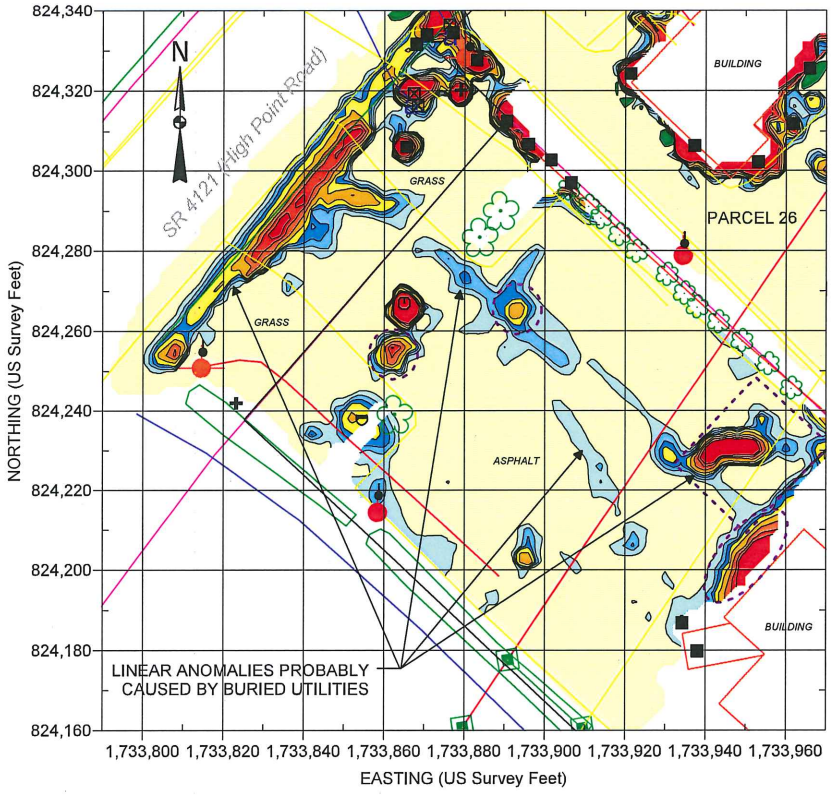
GSSI SIR-3000

Schnabel ENGINEERING

STATE PROJECT U-2412B
NC DEPT. OF TRANSPORTATION
GUILFORD CO., NORTH CAROLINA
PROJECT NO. 09210013.42

PHOTOS OF
GEOPHYSICAL
EQUIPMENT USED

FIGURE 2



EXPLANATION

- MONITORING WELL
- SIGN
- UTILITY POLE
- GUY WIRE
- MISCELLANEOUS METALLIC OBJECT
- UTILITY MANHOLE, METER, BOX, ETC.
- DOT PROPOSED R/W
- DOT PROPOSED UTILITY EASEMENT
- PROPERTY LINE
- GPR SURVEY AREA

REF.: NCDOT FILE: u-2412b_rdy_psh12.dgn
(FOR SOME SITE FEATURES)

EM61 Early Time Gate Response (mV)

-15000 -100 0 50 100 150 200 300 500 750 1000 2000

Scale in US Survey Feet

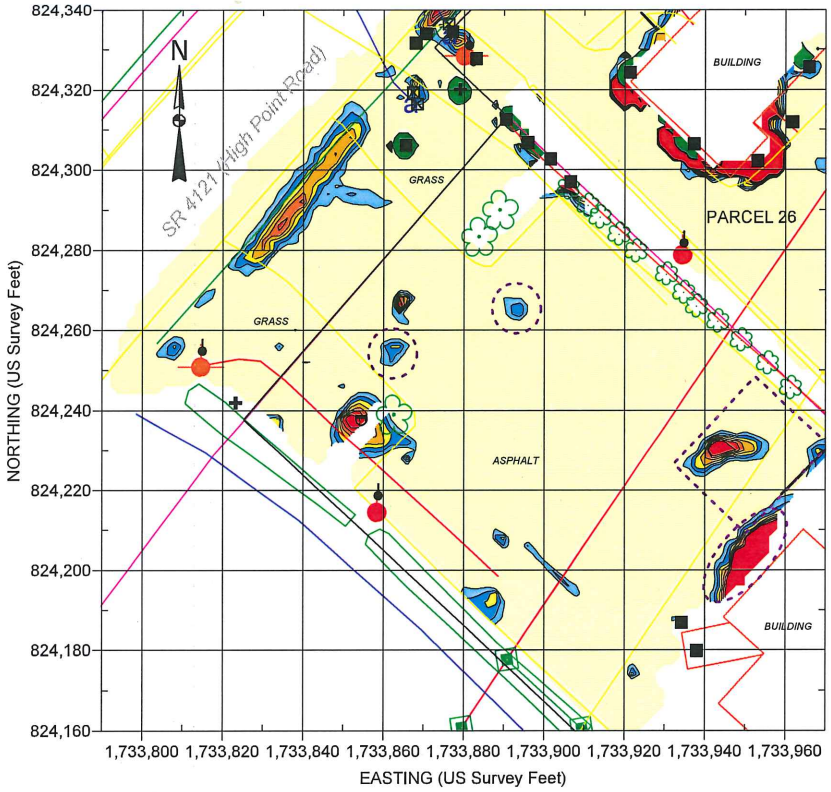
0 30 60 90

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 9, 2011, 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 15, 2011, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT U-2412B
GUILFORD COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 09210013.42

PARCEL 177
EARLY TIME GATE RESPONSE
FIGURE 3



EXPLANATION

- MONITORING WELL
- SIGN
- UTILITY POLE
- GUY WIRE
- MISCELLANEOUS METALLIC OBJECT
- UTILITY MANHOLE, METER, BOX, ETC.
- DOT PROPOSED R/W
- DOT PROPOSED UTILITY EASEMENT
- PROPERTY LINE
- GPR SURVEY AREA

REF.: NCDOT FILE: u-2412b_rdy_psh12.dgn
(FOR SOME SITE FEATURES)

EM61 Differential Response (mV)

-20000 -100 0 40 60 80 100 120 140 160 200

Scale in US Survey Feet

0 30 60 90

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 June 9, 2011, 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 June 15, 2011, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT U-2412B
GUILFORD COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 09210013.42

PARCEL 177
DIFFERENTIAL
RESPONSE

FIGURE 4

APPENDIX III

ENVIRONMENTAL BORING LOGS

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BORING LOG

Boring: B-6 (1 of 1)

Project No: 34802.1.1 (U-2412B)
Client: NCDOT
Project: Jamestown Bypass, Highpoint Road
City/State: Greensboro, Guilford Co., NC

Elevation:
Total Depth: 12.0'
Boring Location: Parcel 177

Drilling Method: Geoprobe
Hammer Type: N/A
Date Drilled: 7/5/11
Driller: Regional Probing Services

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		Moist, red-brown, sandy CLAY (CL).		0.0	2.9	
	1.0	Moist, orange & red, silty CLAY (CL).		1.0	3.8	Sample submitted to laboratory for analysis for TPH GRO/DRO
				2.0	3.6	
				3.0	3.5	
				4.0	3.2	
				5.0	1.8	
				6.0	1.5	
				7.0	1.3	
				8.0	1.7	
	9.0	Moist, orange & red, clayey SILT (ML).		9.0	2.3	
				10.0	1.8	
				11.0	1.9	
	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		

BORING_LOG GEOPROBE_LOGS_177.GPJ F&R.GDT 8/11/11

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

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BORING LOG

Boring: B-7 (1 of 1)

Project No: 34802.1.1 (U-2412B)
Client: NCDOT
Project: Jamestown Bypass, Highpoint Road
City/State: Greensboro, Guilford Co., NC

Elevation:
Total Depth: 12.0'
Boring Location: Parcel 177

Drilling Method: Geoprobe
Hammer Type: N/A
Date Drilled: 7/5/11
Driller: Regional Probing Services

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		Dry, brown to light brown, sandy SILT (ML).		0.0	1.3	
				1.0	1.9	
				2.0	2.7	
	3.0	Dry to moist, yellow-brown, orange & red, clayey SILT (ML).		3.0	2.1	
				4.0	2.2	
				5.0	1.0	
				6.0	2.9	
				7.0	2.8	
				8.0	3.4	
	9.0	Moist, orange, SILT (ML).		9.0	3.4	
				10.0	3.4	Sample submitted to laboratory for analysis for TPH GRO/DRO
				11.0	2.6	
	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		

BORING_LOG GEOPROBE_LOGS_177.GPJ F&R.GDT 8/11/11

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

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BORING LOG

Boring: B-8 (1 of 1)

Project No: 34802.1.1 (U-2412B)
Client: NCDOT
Project: Jamestown Bypass, Highpoint Road
City/State: Greensboro, Guilford Co., NC

Elevation:
Total Depth: 12.0'
Boring Location: Parcel 177

Drilling Method: Geoprobe
Hammer Type: N/A
Date Drilled: 7/5/11
Driller: Regional Probing Services

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		Moist, red, yellow & orange, clayey SILT (ML).		0.0	1.1	
				1.0	2.2	
				2.0	3.6	Sample submitted to laboratory for analysis for TPH GRO/DRO
				3.0	3.1	
				4.0	3.0	
				5.0	3.1	
	6.0	Moist, red & white, SILT (ML).		6.0	3.1	
	7.0	Moist, red & orange, clayey SILT (ML).		7.0	1.9	
	8.0	Moist, red & yellow, SILT (ML).		8.0	2.8	
				9.0	2.8	
				10.0	2.5	
	11.0	Moist to wet, red, clayey SILT (ML).		11.0	2.6	
	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		

BORING_LOG GEOPROBE_LOGS_177.GPJ F&R.GDT 8/11/11

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

SINCE 1881

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BORING LOG

Boring: B-9 (1 of 1)

Project No: 34802.1.1 (U-2412B)
Client: NCDOT
Project: Jamestown Bypass, Highpoint Road
City/State: Greensboro, Guilford Co., NC

Elevation:
Total Depth: 12.0'
Boring Location: Parcel 177

Drilling Method: Geoprobe
Hammer Type: N/A
Date Drilled: 7/5/11
Driller: Regional Probing Services

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		Moist, brown, orange, red-brown & white, clayey SILT (ML).		0.0	0.8	
				1.0	2.6	
				2.0	2.0	
				3.0	2.5	
				4.0	2.5	
				5.0	2.5	
				6.0	2.7	
	7.0	Moist, orange, red & white, SILT (ML).		7.0	3.9	Sample submitted to laboratory for analysis for TPH GRO/DRO
				8.0	3.2	
				9.0	3.0	
				10.0	3.1	
				11.0	2.8	
	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

BORING_LOG GEOPROBE_LOGS_177.GPJ F&R.GDT 8/11/11

SINCE 1881

FROEHLING & ROBERTSON, INC.

BORING LOG

Boring: B-10 (1 of 1)

Project No: 34802.1.1 (U-2412B)
Client: NCDOT
Project: Jamestown Bypass, Highpoint Road
City/State: Greensboro, Guilford Co., NC

Elevation:
Total Depth: 12.0'
Boring Location: Parcel 177

Drilling Method: Geoprobe
Hammer Type: N/A
Date Drilled: 7/5/11
Driller: Regional Probing Services

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		Moist, red, clayey SILT (ML).		0.0	1.5	
				1.0	2.4	
				2.0	2.1	
				3.0	2.3	
				4.0	2.0	
				5.0	2.1	
				6.0	2.4	Sample submitted to laboratory for analysis for TPH GRO/DRO
	7.0	Moist, red & orange, SILT (ML).		7.0	1.8	
	8.0	Moist, red, clayey SILT (ML).		8.0	1.8	
	9.0	Moist, red, orange & white, SILT (ML).		9.0	1.1	
				10.0	1.3	
				11.0	0.8	
	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		

BORING_LOG GEOPROBE_LOGS_177.GPJ F&R.GDT 8/11/11

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.

APPENDIX IV

SITE PHOTOS

Photo #1: Existing Giovanni's Restaurant located at the rear of the project site.

Photo #2: Location of Boring B-6 looking southeast.

Photo #3: Location of Boring B-7 looking east-northeast.

Photo #4: Location of Boring B-8 looking west-northwest.

Photo #5: Location of Boring B-9 looking south-southwest.

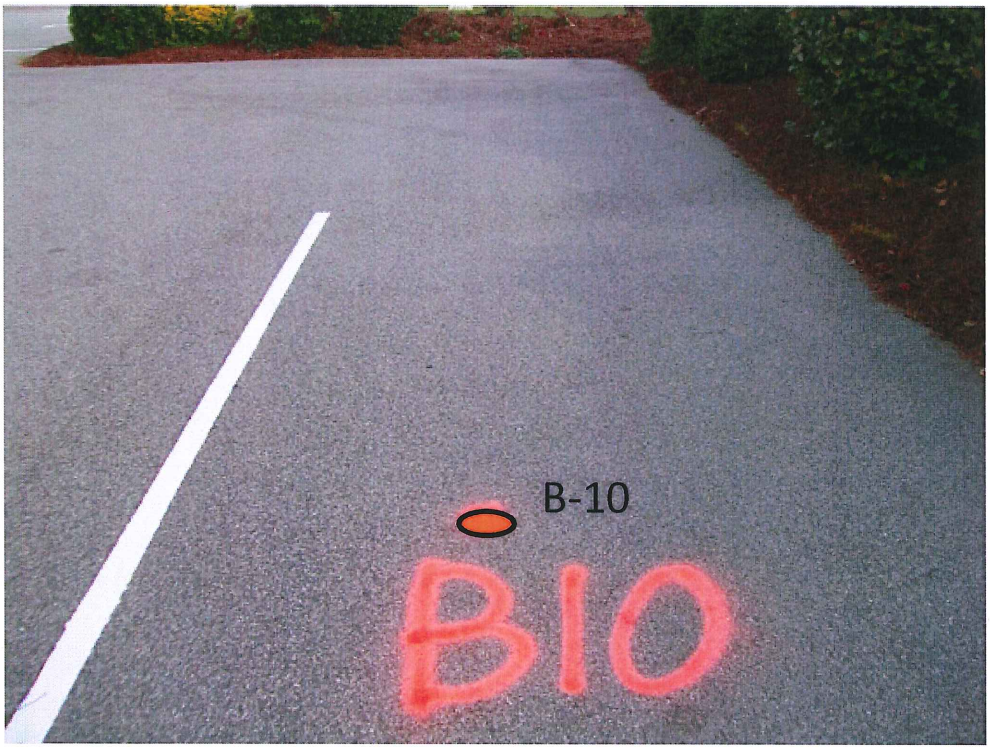

Photo #6: Location of Boring B-10 looking north.

APPENDIX V

LABORATORY ANALYTICAL RESULTS

SGS

Laboratory Report of Analysis

To: Christopher J. Burkhardt
FROEHLING & ROBERTSON, INC.
310 Hubert Street
Raleigh, NC 27603

Report Number: **31101765**

Client Project: **66N-0055 Jamestown Bypass**

Dear Christopher J. Burkhardt,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by Michael Page
DN: CN = Michael Page, C = US, OU = SGS Environmental
Date: 2011.07.19 09:24:26 -04'00'

Michael D. Page — Date
Project Manager
michael.page@sgs.com

Print Date: 07/19/2011

N.C. Certification # 481

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < LOD)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range
M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
~~B1~~	~~31101765001~~	~~07/05/2011 13:07~~	~~07/07/2011 07:40~~	~~Soil-Solid as dr~~
~~B2~~	~~31101765002~~	~~07/05/2011 13:32~~	~~07/07/2011 07:40~~	~~Soil-Solid as dr~~
~~B3~~	~~31101765003~~	~~07/05/2011 14:07~~	~~07/07/2011 07:40~~	~~Soil-Solid as dr~~
~~B4~~	~~31101765004~~	~~07/05/2011 14:33~~	~~07/07/2011 07:40~~	~~Soil-Solid as dr~~
~~B5~~	~~31101765005~~	~~07/05/2011 15:12~~	~~07/07/2011 07:40~~	~~Soil-Solid as dr~~
B6	31101765006	07/05/2011 10:22	07/07/2011 07:40	Soil-Solid as dr
B7	31101765007	07/05/2011 10:50	07/07/2011 07:40	Soil-Solid as dr
B8	31101765008	07/05/2011 11:19	07/07/2011 07:40	Soil-Solid as dr
B9	31101765009	07/06/2011 11:43	07/07/2011 07:40	Soil-Solid as dr
B10	31101765010	07/05/2011 12:12	07/07/2011 07:40	Soil-Solid as dr

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Results of B6

Client Sample ID: **B6**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765006-A
Lab Project ID: 31101765

Collection Date: 07/05/2011 10:22
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 74

Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND		3.59	mg/kg	1	07/8/2011 14:43
Surrogates						
4-Bromofluorobenzene	102		70.0-130	%	1	07/8/2011 14:43

Batch Information

Analytical Batch: VGC1299
Analytical Method: SW-846 8015C GRO
Instrument: GC4
Analyst: LMC
Analytical Date/Time: 07/08/2011 14:43

Prep Batch: VXX1740
Prep Method: SW-846 5035
Prep Date/Time: 07/08/2011 15:56
Prep Initial Wt./Vol.: 7.545 g
Prep Extract Vol: 5 mL

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Results of B6

Client Sample ID: **B6**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765006-C
Lab Project ID: 31101765

Collection Date: 07/05/2011 10:22
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 74

Results by SW-846 8015C DRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Diesel Range Organics (DRO)	ND		8.40	mg/kg	1	07/12/2011 21:48
Surrogates						
o-Terphenyl	78.4		40.0-140	%	1	07/12/2011 21:48

Batch Information

Analytical Batch: XGC1366
Analytical Method: SW-846 8015C DRO
Instrument: GC6
Analyst: DTF
Analytical Date/Time: 07/12/2011 21:48

Prep Batch: XXX1514
Prep Method: SW-846 3541
Prep Date/Time: 07/11/2011 09:23
Prep Initial Wt./Vol.: 32.22 g
Prep Extract Vol: 10 mL

Print Date: 07/19/2011

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Results of B7

Client Sample ID: **B7**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765007-A
Lab Project ID: 31101765

Collection Date: 07/05/2011 10:50
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 72

Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND		4.31	mg/kg	1	07/8/2011 15:10
Surrogates						
4-Bromofluorobenzene	104		70.0-130	%	1	07/8/2011 15:10

Batch Information

Analytical Batch: VGC1299
Analytical Method: SW-846 8015C GRO
Instrument: GC4
Analyst: LMC
Analytical Date/Time: 07/08/2011 15:10

Prep Batch: VXX1740
Prep Method: SW-846 5035
Prep Date/Time: 07/08/2011 15:56
Prep Initial Wt./Vol.: 6.425 g
Prep Extract Vol: 5 mL

Print Date: 07/19/2011

N.C. Certification # 481

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Results of B7

Client Sample ID: **B7**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765007-C
Lab Project ID: 31101765

Collection Date: 07/05/2011 10:50
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 72

Results by SW-846 8015C DRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Diesel Range Organics (DRO)	ND		8.74	mg/kg	1	07/12/2011 22:16
Surrogates						
o-Terphenyl	72.4		40.0-140	%	1	07/12/2011 22:16

Batch Information

Analytical Batch: XGC1366
Analytical Method: SW-846 8015C DRO
Instrument: GC6
Analyst: DTF
Analytical Date/Time: 07/12/2011 22:16

Prep Batch: XXX1514
Prep Method: SW-846 3541
Prep Date/Time: 07/11/2011 09:23
Prep Initial Wt./Vol.: 31.68 g
Prep Extract Vol: 10 mL

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Results of B8

Client Sample ID: **B8**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765008-A
Lab Project ID: 31101765

Collection Date: 07/05/2011 11:19
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 82

Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND		3.81	mg/kg	1	07/8/2011 15:37
Surrogates						
4-Bromofluorobenzene	103		70.0-130	%	1	07/8/2011 15:37

Batch Information

Analytical Batch: VGC1299
Analytical Method: SW-846 8015C GRO
Instrument: GC4
Analyst: LMC
Analytical Date/Time: 07/08/2011 15:37

Prep Batch: VXX1740
Prep Method: SW-846 5035
Prep Date/Time: 07/08/2011 15:56
Prep Initial Wt./Vol.: 6.374 g
Prep Extract Vol: 5 mL

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Results of B8

Client Sample ID: **B8**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765008-C
Lab Project ID: 31101765

Collection Date: 07/05/2011 11:19
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 82

Results by SW-846 8015C DRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Diesel Range Organics (DRO)	**40.3**		7.56	mg/kg	1	07/12/2011 22:44
Surrogates						
o-Terphenyl	69.4		40.0-140	%	1	07/12/2011 22:44

Batch Information

Analytical Batch: XGC1366
Analytical Method: SW-846 8015C DRO
Instrument: GC8
Analyst: DTF
Analytical Date/Time: 07/12/2011 22:44

Prep Batch: XXX1514
Prep Method: SW-846 3541
Prep Date/Time: 07/11/2011 09:23
Prep Initial Wt./Vol.: 32.12 g
Prep Extract Vol: 10 mL

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Results of B9

Client Sample ID: **B9**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765009-A
Lab Project ID: 31101765

Collection Date: 07/06/2011 11:43
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 75

Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND		3.63	mg/kg	1	07/8/2011 16:04
Surrogates						
4-Bromofluorobenzene	102		70.0-130	%	1	07/8/2011 16:04

Batch Information

Analytical Batch: VGC1299
Analytical Method: SW-846 8015C GRO
Instrument: GC4
Analyst: LMC
Analytical Date/Time: 07/08/2011 16:04

Prep Batch: VXX1740
Prep Method: SW-846 5035
Prep Date/Time: 07/08/2011 15:56
Prep Initial Wt./Vol.: 7.39 g
Prep Extract Vol: 5 mL

Print Date: 07/19/2011

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Results of B9

Client Sample ID: **B9**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765009-C
Lab Project ID: 31101765

Collection Date: 07/06/2011 11:43
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 75

Results by SW-846 8015C DRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Diesel Range Organics (DRO)	**9.88**		8.47	mg/kg	1	07/12/2011 23:13
Surrogates						
o-Terphenyl	62.9		40.0-140	%	1	07/12/2011 23:13

Batch Information

Analytical Batch: XGC1366
Analytical Method: SW-846 8015C DRO
Instrument: GC6
Analyst: DTF
Analytical Date/Time: 07/12/2011 23:13

Prep Batch: XXX1514
Prep Method: SW-846 3541
Prep Date/Time: 07/11/2011 09:23
Prep Initial Wt./Vol.: 31.64 g
Prep Extract Vol: 10 mL

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Results of B10

Client Sample ID: **B10**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765010-A
Lab Project ID: 31101765

Collection Date: 07/05/2011 12:12
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 73

Results by SW-846 8015C GRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND		4.49	mg/kg	1	07/8/2011 16:31
Surrogates						
4-Bromofluorobenzene	101		70.0-130	%	1	07/8/2011 16:31

Batch Information

Analytical Batch: VGC1299
Analytical Method: SW-846 8015C GRO
Instrument: GC4
Analyst: LMC
Analytical Date/Time: 07/08/2011 16:31

Prep Batch: VXX1740
Prep Method: SW-846 5035
Prep Date/Time: 07/08/2011 15:56
Prep Initial Wt./Vol.: 6.125 g
Prep Extract Vol: 5 mL

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Results of B10

Client Sample ID: **B10**
Client Project ID: **66N-0055 Jamestown Bypass**
Lab Sample ID: 31101765010
Lab Project ID: 31101765

Collection Date: 07/05/2011 12:12
Received Date: 07/07/2011 07:40
Matrix: Soil-Solid as dry weight
Solids (%): 73

Results by SW-846 8015C DRO

Parameter	Result	Qual	LOQ/CL	Units	DF	Date Analyzed
Diesel Range Organics (DRO)	**10.7**		8.55	mg/kg	1	07/16/2011 0:23
Surrogates						
o-Terphenyl	70.9		40.0-140	%	1	07/16/2011 0:23

Batch Information

Analytical Batch: XGC1378
Analytical Method: SW-846 8015C DRO
Instrument: GC6
Analyst: DTF
Analytical Date/Time: 07/16/2011 00:23

Prep Batch: XXX1525
Prep Method: SW-846 3541
Prep Date/Time: 07/13/2011 16:16
Prep Initial Wt./Vol.: 32.17 g
Prep Extract Vol: 10 mL

CHAIN OF CUSTODY RECORD
SGS North America Inc.

Locations Nationwide
- Alaska
- Maryland
- New Jersey
- New York
- North Carolina
- Ohio

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101722

(1) CLIENT: FROEHLING & ROBERTSON

CONTACT: CHRISTOPHER BURKHARDT PHONE NO:(919) 630 1369

PROJECT: GGN-0055 SITE/PWSID#: NCDOT U-2412B JAMESTOWN BYPS

REPORTS TO: C.BURKHARDT FAX NO.:( )

INVOICE TO: NCDOT QUOTE #:

P.O. NUMBER:

SGS Reference: 31101765

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used: Methanol / N/A	Analysis Required (3): GRO / DRO	REMARKS
	B1	7.5.11	1:07	Soil	3	G			
	B2	7.5.11	1:32	Soil	3	G			
	B3	7.5.11	2:07	Soil	3	G			
	B4	7.5.11	2:33	Soil	3	G			
	B5	7.5.11	3:12	Soil	3	G			
	B6	7.5.11	10:22	Soil	3	G			
	B7	7.5.11	10:50	Soil	3	G			
	B8	7.5.11	11:19	Soil	3	G			
	B9	7.6.11	11:43	Soil	3	G			
	B10	7.5.11	12:12	Soil	3	G			

(5)

	Date	Time	Received By:
Collected/Relinquished By:(1)	7/6/11	1416	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	7/7/11	7:40	Tamara Morgan
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier: Courier

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 4.4

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ (Date Needed) ☐ STD

☐ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

White - Returned by Lab
Pink - Retained by Client

SINCE

1881

HQ: 3015 DUMBARTON ROAD RICHMOND, VIRGINIA 23228 T 804.264.2701 F 804.264.1202 www.fandr.com

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