

**PRELIMINARY SITE ASSESSMENT
WATER STREET PROPERTY, INCORPORATED PROPERTY
501 NORTH POINDEXTER STREET
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1**

Prepared for:

NC Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Prepared by:

Solutions-IES
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Solutions-IES Project No. 3946.10A3.NDOT

September 10, 2010



Jody Overmyer, P.E.
Project Engineer

A handwritten signature in black ink that reads "Sheri L. Knox".

Sheri L. Knox
Senior Project Manager

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1.0 INTRODUCTION

The Water Street Property, Incorporated, site (Water Street Property) located at 501 North Poindexter Street, Elizabeth City, Pasquotank County, North Carolina is currently an asphalt, concrete, and grass-covered lot with an unoccupied building. The location of the property is shown on **Figures 1 and 2**. This report summarizes the results of field and laboratory activities conducted during the Preliminary Site Assessment (PSA) of the subject property. The scope of work executed at the site was performed in general accordance with Solutions-IES proposal NC101099 revised June 16, 2010, and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on June 24, 2010, under contract 7000010453, dated June 25, 2009.

2.0 BACKGROUND AND SITE DESCRIPTION

Water Street Property, which once operated as a Gordon Service Station, is currently unoccupied. It is located in the northwest quadrant of North Poindexter Street and Pearl Street. This facility is listed on North Carolina Department of Environment and Natural Resources (NCDENR) underground storage tank (UST) registry but has no Facility ID or Incident #'s associated with it. The city of Elizabeth City is looking at this site for the location of a new wastewater pump station. The PSA was performed within the study area depicted on **Figure 3** which stretched north to south along the west side of North Poindexter Street continuing on an east to west trend along Pearl Street. Work was not performed in areas outside of the study area. Photographs of the site are included in **Appendix A**.

3.0 FIELD ACTIVITIES

Prior to mobilizing to conduct work, Solutions-IES contacted North Carolina One Call and contracted Accumark to locate underground utilities at the site. Pyramid Environmental & Engineering, P.C. (Pyramid) was contracted to perform a geophysical survey, and mobilized to the study area July 7 and July 9, 2010. The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys using a Geonics EM61-MK1 metal detection instrument and ground penetrating radar (GPR) surveys using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Results of the survey suggested that the study area does not contain metallic underground storage tanks (USTs). Images of the EM and GPR findings are included in the geophysical report in **Appendix B**. After a review of the geophysical report, Solutions-IES mobilized to the site on August 4, 2010, to collect soil and groundwater samples. Five borings were advanced to a depth of 8 feet below ground surface (ft bgs) using a Geoprobe®. The

approximate locations of the soil borings are displayed in **Figure 3**. The GPS coordinates of the boring locations are included in **Appendix C**. A temporary well was installed at Boring 501-1. Soil samples were not collected below 5 ft bgs due to indications of saturated soil.

A Macro-Core[®] sampler fitted with a 4-foot dedicated polyvinyl chloride (PVC) liner was used to collect soil samples with a Geoprobe[®]. The Macro-Core[®] liner was divided and sampled in 2-foot intervals. Each soil sample was divided into two aliquots. Each aliquot was placed in a separate resealable plastic bag. One bag was placed on ice for possible laboratory analysis, while the other bag was sealed and placed at ambient temperature for field screening with a flame ionization detector (FID). After approximately 20 minutes to allow accumulation of volatile organic compounds (VOCs) in the headspace of the bag, each sealed bag was scanned with the FID. The FID measurements were entered into the field logbook along with the soil description and any indications of staining or odor. That information was subsequently transferred onto boring logs. The boring logs are provided in **Appendix D** and the field screening results are summarized in **Table 1**. The field screening results are also shown on the boring logs.

The subsurface at the site generally consisted of gray to tan silty sands and clay (Unified Soil Classification SM and CL). The depth to groundwater was measured at approximately 6 ft bgs in a representative borehole by lowering a decontaminated water level probe into the borehole soon after the boring was opened.

Table 1 shows the FID field screening results of the soils ranged from non-detect to 4.6 parts per million (ppm). One soil sample was collected from each boring at the interval identified in **Table 1**. The samples were placed in laboratory-supplied jars and stored on ice pending courier service to Prism Laboratories in Charlotte, NC. Sample information was recorded on the chain-of-custody form. The soil samples collected at the site were analyzed using the following analytical methods: total petroleum hydrocarbons gasoline range organics and diesel range organics (TPH GRO and DRO) by EPA Methods 5035/3545/8015.

Due to the shallow water table, a temporary groundwater monitoring well was installed and sampled. Upon completion of the boring at 501-1, a 5-foot section of 1-inch diameter PVC slotted well screen, joined with an approximate 3-foot section of 1-inch diameter PVC riser, was introduced into the boring. Natural formation caved in around the well screen to approximately 4 ft bgs. Washed #2 well sand was introduced into the annulus of the boring, forming a sand pack around the screen from the top of the natural formation to within 1.5-foot of surface grade. The temporary well was allowed to equilibrate for

approximately 30 minutes before sampling and promptly abandoned once sampling was complete.

Appendix D contains the boring log for 501-1 with temporary well construction information. The stabilized water level was measured at 6.2 feet bgs. The well was then sampled with a peristaltic pump, utilizing 3/8-inch diameter disposable polyethylene tubing. Prior to sample collection field parameters including pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity and conductivity were allowed to stabilize then recorded. Groundwater samples obtained from the well were submitted for analysis of VOCs by EPA Methods 8260 and semivolatile organic compounds (SVOCs) by EPA Method 8270. Each sample was placed in laboratory-supplied jars then stored on ice pending courier service to Prism Laboratories in Charlotte, NC. Sample information was recorded on the chain-of-custody form.

4.0 LABORATORY RESULTS

The laboratory analytical results did not indicate the presence of TPH (GRO and DRO) in soil or VOCs and SVOCs in groundwater at concentrations above the laboratory reporting limits at Water Street Property. The analytical results are summarized in **Tables 2** and **3**, and the laboratory report is included in **Appendix E**.

5.0 DISCUSSION/CONCLUSIONS

The geophysical survey conducted at the site suggested that no buried metallic objects such as a UST are present within the study area. Solutions-IES advanced five soil borings to a depth of 8 ft bgs. The highest FID reading measured 4.6 ppm in boring 501-1 at depths of 0 to 2 ft bgs but there were no confirming detections of TPH (GRO and DRO) in the sampled soil.

VOCs and SVOCs were not detected above the laboratory reporting limits in the groundwater sample collected from the site. Based on the information gathered in this PSA, further assessment within the study area is not necessary at this time.

TABLES

TABLE 1
Summary of Field Screening Results for Soil
Water Street Property, Inc.
501 N. Poindexter Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 4, 2010

Sample Depth Below Ground Surface	Soil Boring				
	501-1	501-2	501-3	501-4	501-5
	FID Reading (ppm)				
0 - 2 feet	4.6	0.0	0.0	0.0	0.0
2 - 4 feet	0.0	0.0	0.0	0.0	0.0
4 - 5 feet	0.0	0.0	0.0	0.0	0.0

Notes:

Samples denoted by shaded cells were submitted for laboratory analysis.

FID readings were obtained with a Photovac MicroFID Flame Ionization Detector.

ppm = parts per million

TABLE 2
Summary of Soil Analytical Results
Water Street Property, Inc.
501 N. Poindexter Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 4, 2010

Sample Information		Total Petroleum Hydrocarbons	
Boring Number	Depth (ft bgs)	Gasoline Range ¹ (mg/kg)	Diesel Range ² (mg/kg)
501-1	0-2	<4.5	<8.7
501-2	2-4	<5.4	<8.3
501-3	4-5	<3.6	<8.2
501-4	4-5	<4.7	<9.0
501-5	2-4	<4.8	<8.6

Notes:

1. Total Petroleum Hydrocarbons (TPH) Method 5035/8015MOD - Gasoline Range Hydrocarbons
 2. Total Petroleum Hydrocarbons (TPH) Method 3545/8015MOD - Diesel Range Hydrocarbons
- ft bgs = feet below ground surface
mg/kg = milligram per kilogram

TABLE 3
Summary of Groundwater Analytical Results
Water Street Property, Inc.
501 N. Poindexter Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 4, 2010

Sample Information	VOCs (µg/L)	SVOCs (µg/L)
Sample ID	All Analytes	All Analytes
501-1	BRL	BRL
NC 2L Groundwater Quality Standards	NA	NA

Notes:

VOCs = Volatile organic compounds by EPA Method 8260

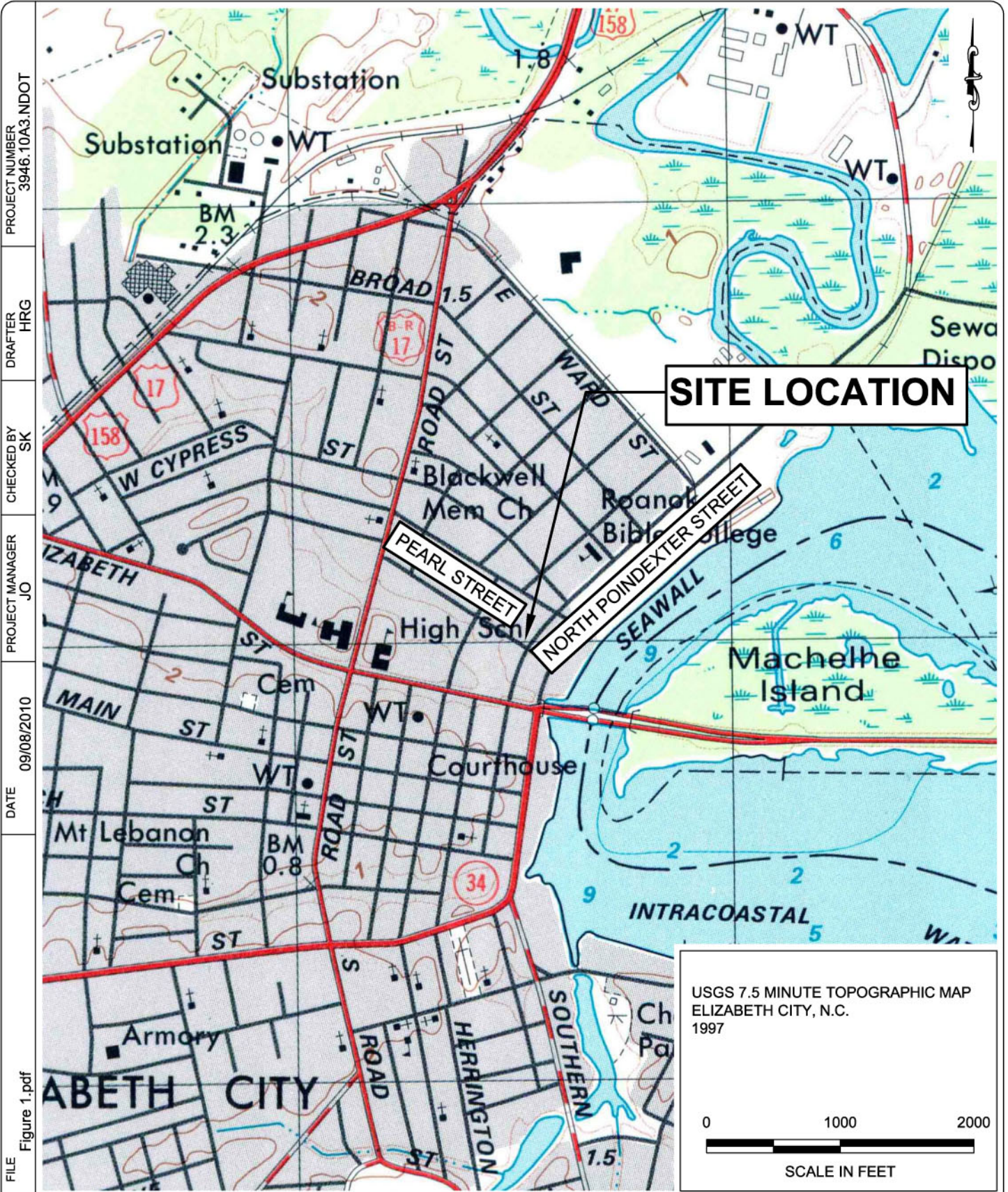
SVOCs = Semivolatile organic compounds by EPA Method 8270

µg/L = Micrograms per liter

BRL = Below the laboratory reporting limit

NA = Not applicable

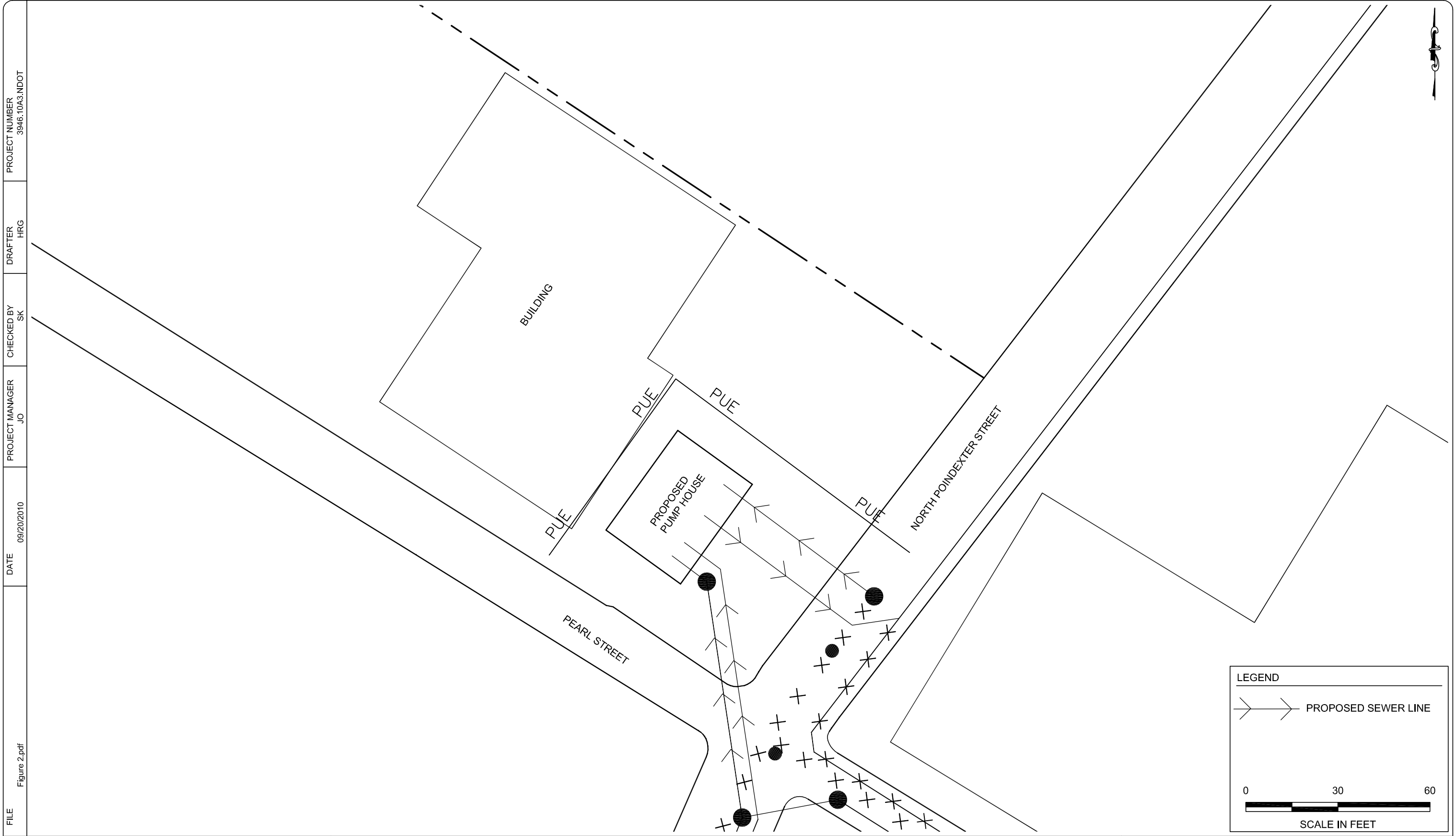
FIGURES



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WATER STREET PROPERTY, INCORPORATED
501 NORTH POINDEXTER
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1

FIGURE:
1



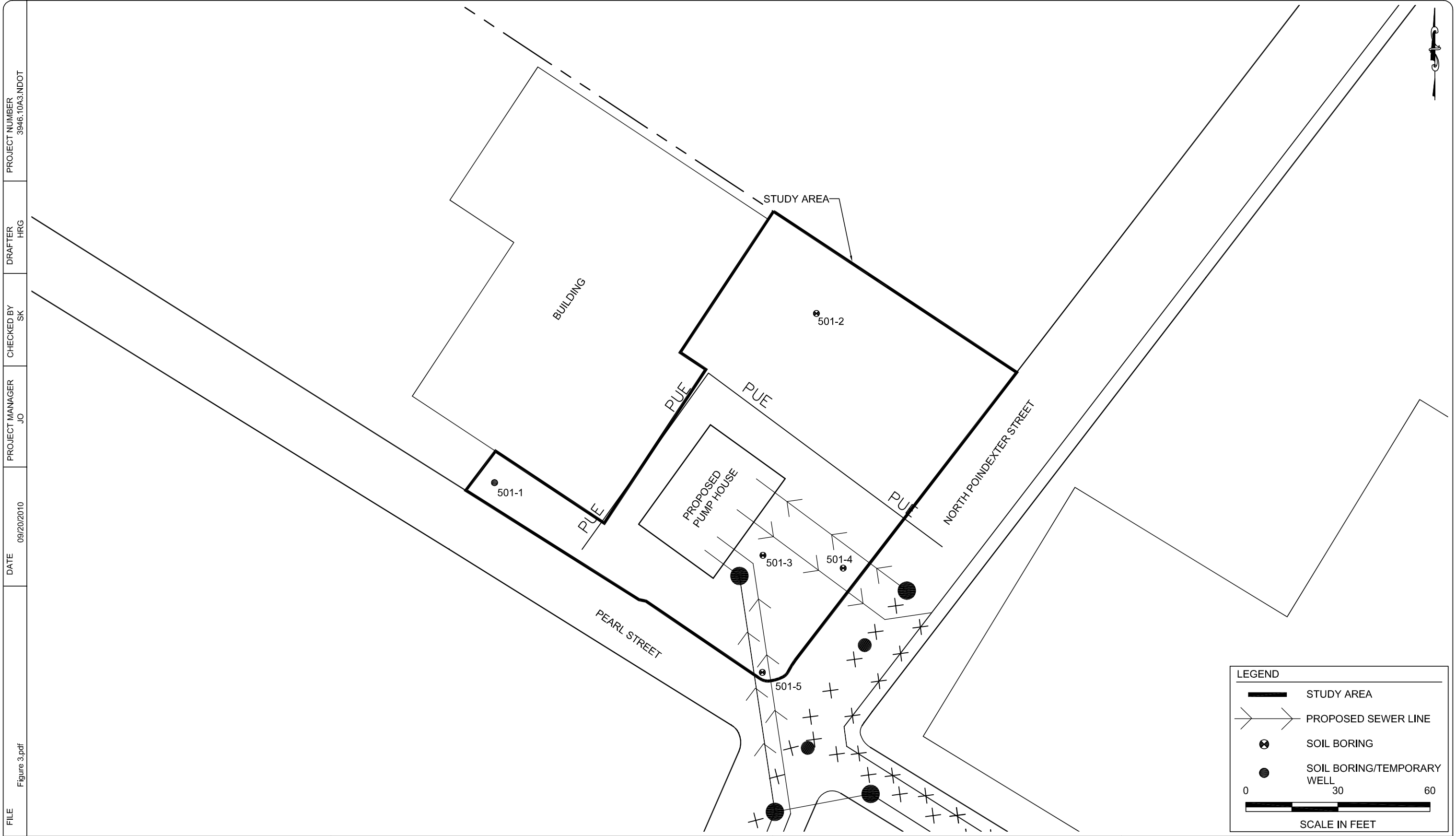
FILE	Figure 2.pdf
DATE	09/20/2010
PROJECT MANAGER	JO
CHECKED BY	SK
DRAFTER	HRG
PROJECT NUMBER	3946.10A3.NDOT


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WATER STREET PROPERTY, INCORPORATED
 501 NORTH POINDEXTER STREET
 ELIZABETH CITY, NORTH CAROLINA
 STATE PROJECT: U-4438
 WBS ELEMENT: 35742.1.1

SITE MAP

FIGURE:
2



FILE	Figure 3.pdf
DATE	09/20/2010
PROJECT MANAGER	JO
CHECKED BY	SK
DRAFTER	HRG
PROJECT NUMBER	3946.10A3.NDOT

APPENDIX A
PHOTOGRAPHS

Appendix A - Photographs



Photograph 1 – View of Water Street Property looking west from North Poindexter Street.



Photograph 2 – View of Water Street Property looking northwest along Pearl Street.

Appendix A - Photographs



Photograph 3 – View of Water Street Property looking southwest along the former storefront.

APPENDIX B
GEOPHYSICAL REPORT

GEOPHYSICAL INVESTIGATION REPORT


EM61 & GPR SURVEYS

**501 NORTH POINDEXTER STREET SITE
Elizabeth City, North Carolina**

August 18, 2010

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Solutions-IES
GEOPHYSICAL INVESTIGATION REPORT
501 NORTH POINDEXTER STREET SITE
Elizabeth City, North Carolina

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3.0 DISCUSSION OF RESULTS	3
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Figure 2	Geophysical Survey Line Locations
Figure 3	EM61 Metal Detection – Bottom Coil Results
Figure 4	EM61 Metal Detection – Differential Results

1.0 INTRODUCTION

Pyramid Environmental conducted geophysical investigations for Solutions-IES across a significant portion of the 501 North Poindexter Street site located in Elizabeth City, North Carolina. The property is owned by Water Street Property Inc. and consists of an open, flat-lying grass-covered lot with a building located in the southeast corner of the site. The property is bordered by North Poindexter Street and Pearl Street to the east and south, respectively and by residential property to the north and west.

Conducted on July 7 and 9, 2010 the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment project to determine if unknown, metallic underground storage tanks (UST's) were present beneath the area of interest at the 501 North Poindexter Street site. Solutions-IES representative, Ms. Jody Overmyer, P.G. provided site maps that identified the geophysical survey area perimeter to Pyramid Environmental personnel. The survey area has a maximum length and width of 160 feet and 150 feet, respectively. Photographs of the geophysical equipment used in this investigation and the geophysical survey area at the 501 North Poindexter Street site are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the geophysical survey area using measuring tapes, pin flags and water-based marking paint. These grid marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM survey was performed on July 7, 2010 using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were

digitally collected at approximately 0.8 foot intervals along northerly-southerly, parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

GPR surveys were conducted on July 9, 2010 across selected EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were digitally collected in a continuous mode along X-axis and/or Y-axis survey lines, spaced 5.0 feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected down to a maximum depth of approximately 5 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. All of the GPR data were downloaded to a field computer and reviewed in the field and office using Radprint software.

Locations of the EM61 metal detection survey lines and the GPR survey lines acquired across the geophysical survey area are shown as red dots and purple lines, respectively in **Figure 2**. Each red dot represents an EM61 data point.

Contour plots of the EM61 bottom coil and differential results are presented in **Figures 3 and 4**. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

Preliminary contour plots of the EM61 bottom coil and EM61 differential results obtained from the survey area were emailed to Ms. Overmyer on July 19, 2010.

3.0 DISCUSSION OF RESULTS

The linear, EM61 bottom coil anomalies intersecting grid coordinates X=25 Y=110, X=60 Y=90, X=95 Y=60, X=110 Y=85, X=130 Y=135, and X=180 Y=110 are probably in response to buried metallic conduits or utility lines. The linear anomalies intersecting grid coordinates X=160 Y=110 and X=60 Y=20 are probably in response to the metal fence lines. GPR data suggest the linear EM61 anomalies intersecting grid coordinates X=30 Y=40 and X=40 Y=38 are in response to buried lines or conduits.

The EM61 bottom coil anomaly centered around grid coordinates X=105 Y=150 is probably in response to buried miscellaneous metal debris. Similarly, GPR data suggest that the EM61 differential anomalies centered near grid coordinates X=108 Y=132 and X=150 Y=140 are in response to “larger” (approximately 1 to 2 feet in size) buried, metal objects. GPR data suggest the differential anomalies near grid coordinates X=115 Y=35, X=140 Y=58 and X=144 Y=37 are in response to the building.

The geophysical investigation suggests that the surveyed portion of the 501 North Poindexter Street site does not contain unknown, metallic USTs.

4.0 SUMMARY & CONCLUSIONS

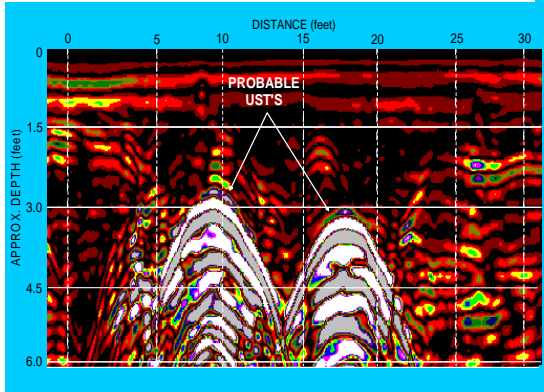
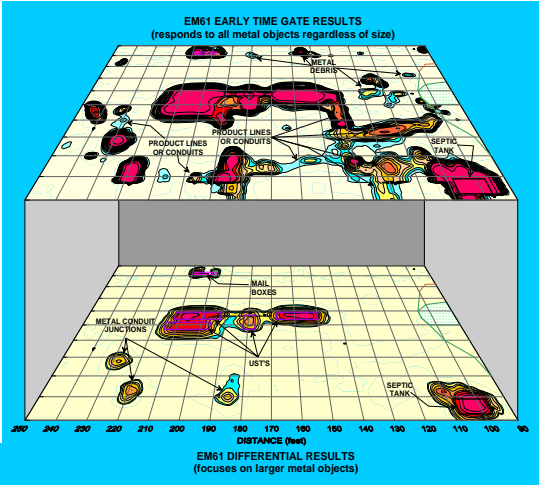
Our evaluation of the EM61 and GPR data collected across the surveyed portion of the 501 North Poindexter Street site located in Elizabeth City, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portion of the site.

- The linear, EM61 bottom coil anomalies intersecting grid coordinates X=25 Y=110, X=60 Y=90, X=95 Y=60, X=110 Y=85, X=130 Y=135, and X=180 Y=110 are probably in response to buried metallic conduits or utility lines.
- GPR data suggest that the EM61 differential anomalies centered near grid coordinates X=108 Y=132 and X=150 Y=140 are in response to “larger” (approximately 1 to 2 feet in size) buried, metal objects. GPR data suggest the differential anomalies near grid coordinates X=115 Y=35, X=140 Y=58 and X=144 Y=37 are in response to the building.
- The geophysical investigation suggests that the surveyed portion of the 501 North Poindexter Street site does not contain unknown, metallic USTs.

5.0 LIMITATIONS

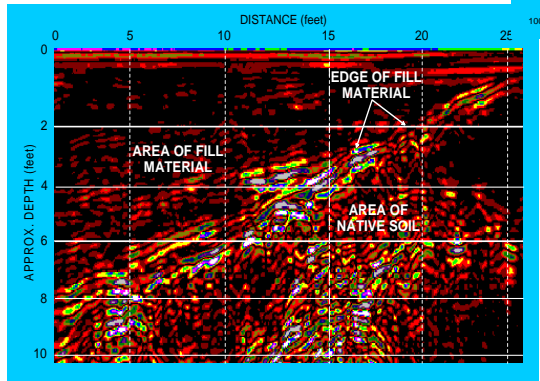
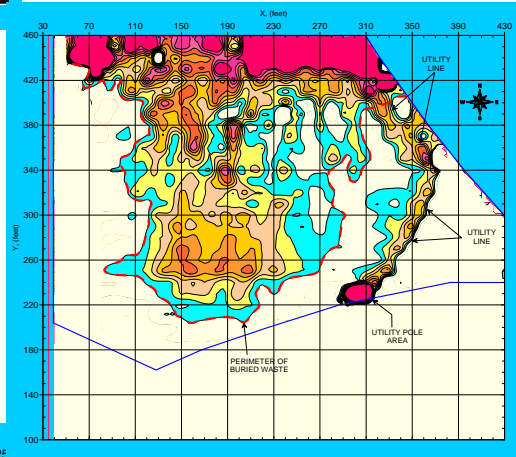
EM61 and GPR surveys have been performed and this report prepared for Solutions-IES in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results do not conclusively determine that the surveyed portion of the site does not contain unknown, metallic USTs but that none were detected.



FIGURES

(on the following pages)

Figures shown on this page are for esthetic purposes only and are not related to the geophysical results discussed in this report.



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across the 501 North Poindexter Street site (Water Street Property Inc. property) on July 7, 2010.



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at the 501 North Poindexter Street site on July 9, 2010.

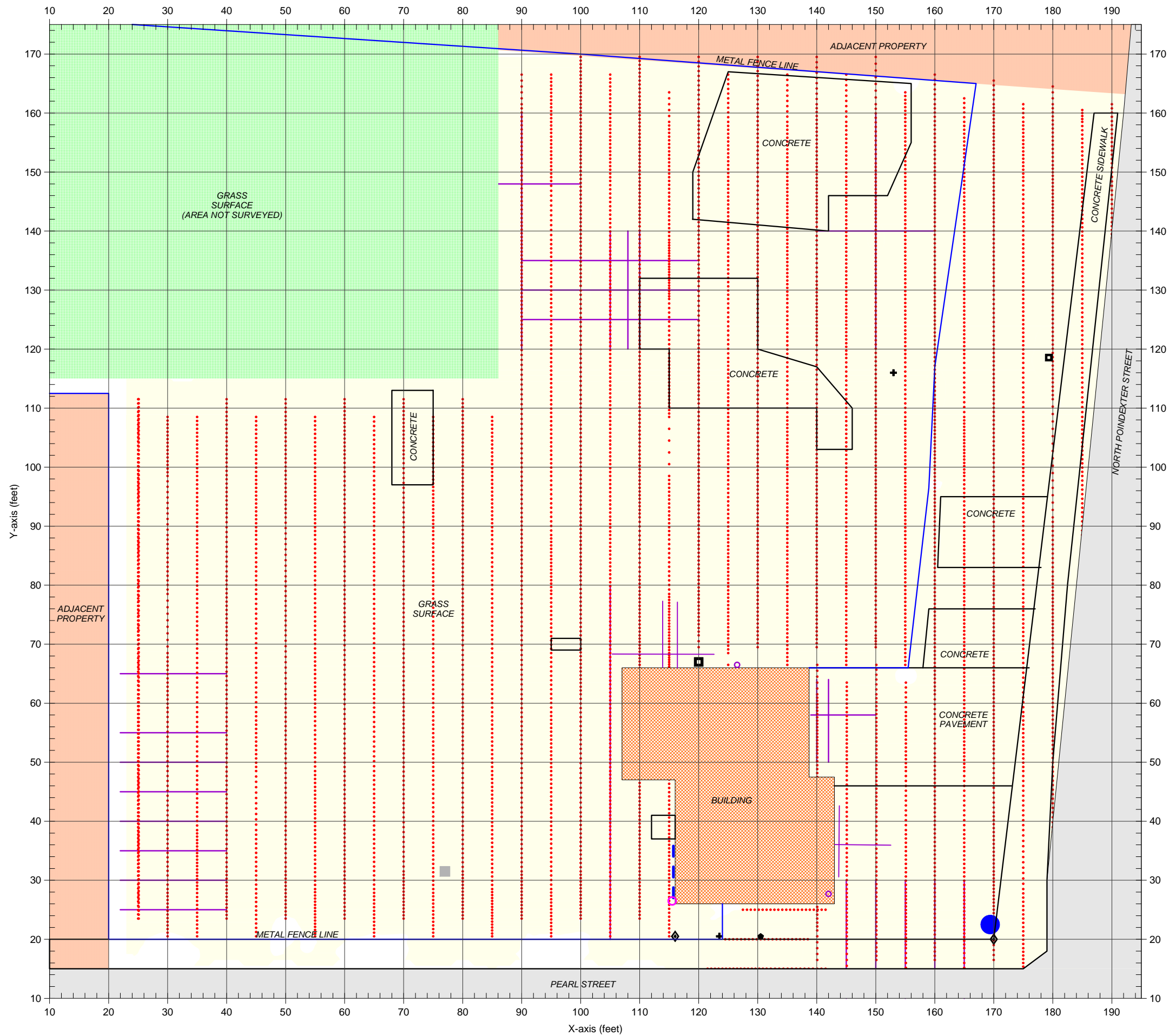


The photograph shows the 501 North Poindexter Street site (Water Street Property Inc. lot) located at the intersection of North Poindexter Street and Pearl Street in Elizabeth City, North Carolina. The photograph is viewed in a southwesterly direction.



CLIENT	SOLUTIONS IES		DATE	08/15/10	BY	MJD
SITE	501 NORTH POINDEXTER STREET SITE		LAY		OPND	
CITY	ELIZABETH CITY	STATE	NORTH CAROLINA		ENG	
TITLE	GEOPHYSICAL RESULTS		NO	2010-159	PROJ	

GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- CONCRETE COVER
- METAL FENCE LINE
- VENT PIPE
- + GUY WIRE
- ROAD SIGN
- UTILITY LINE BOX
- SIGN POLE
- ◆ UTILITY POLE
- 3 UST VENT PIPES
- EM61 METAL DETECTION SURVEY LINE
- GPR SURVEY LINE

Note: The map shows the geophysical survey area at the 501 North Poindexter Street site (Water Street Property Inc. lot). The red dots represent the EM61 metal detection survey lines that were acquired on July 7, 2010 using a Geonics EM61 metal detection instrument. Each dot represents an EM61 data point.

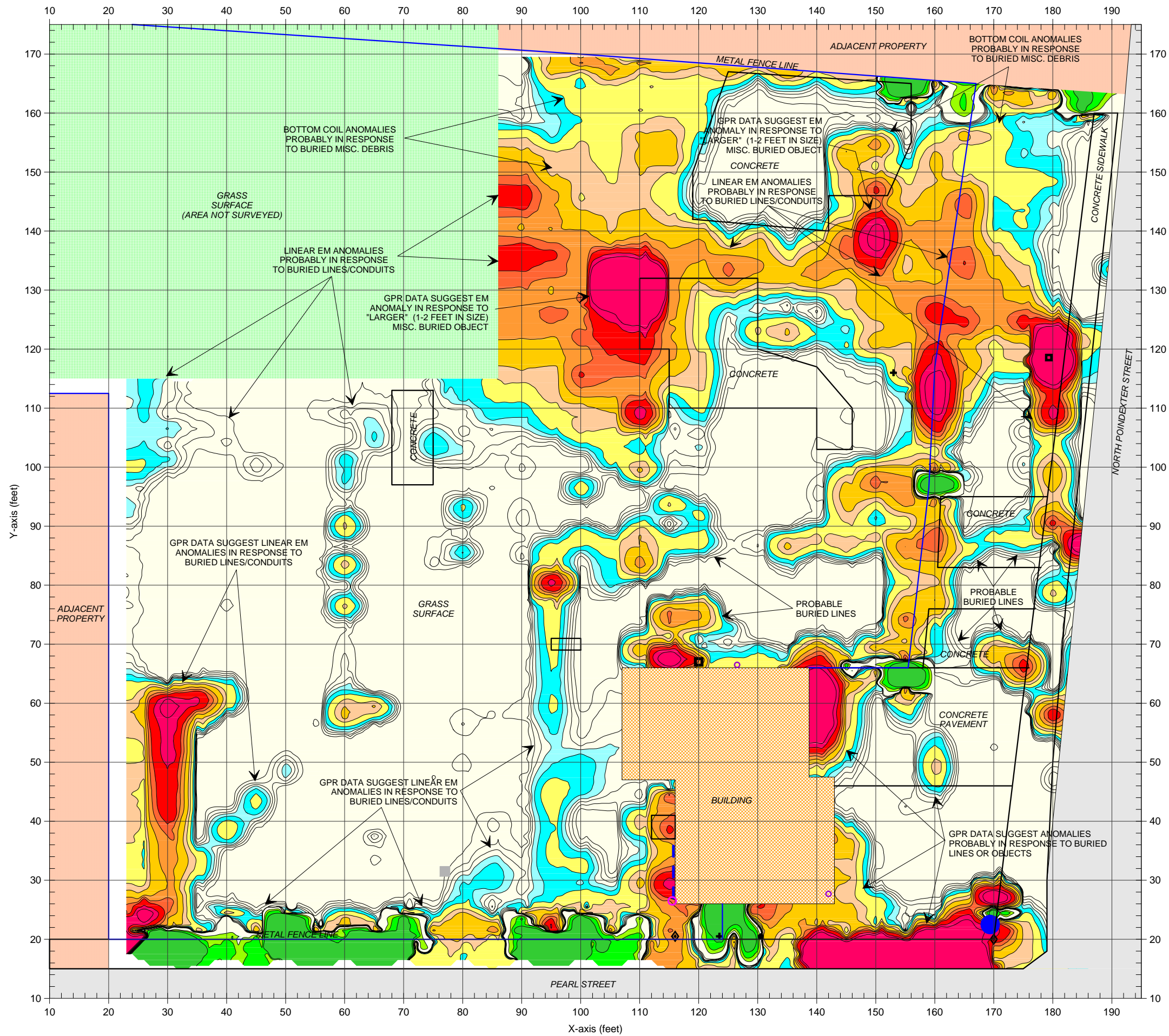
The solid purple lines represent the GPR survey lines. The GPR investigation was conducted on July 9, 2010 using a Geophysical Survey Systems SIR-2000 unit with a 400 MHz antenna.

GEOPHYSICAL SURVEY LINE LOCATIONS

FIGURE 2

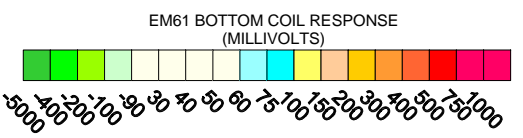
GRAPHIC SCALE IN FEET		MJD		FIGURE	
08/18/10	DATE	DRWN	CHKD	2010-159	L. NO.
SOLUTIONS-IES		501 NORTH POINDEXTER STREET SITE		NORTH CAROLINA	
ELIZABETH CITY		STATE		GEOPHYSICAL RESULTS	
CLIENT	SITE	CITY	STATE	TITLE	

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LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- CONCRETE COVER
- METAL FENCE LINE
- VENT PIPE
- + GUY WIRE
- ◆ ROAD SIGN
- UTILITY LINE BOX
- SIGN POLE
- ◇ UTILITY POLE
- 3 UST VENT PIPES



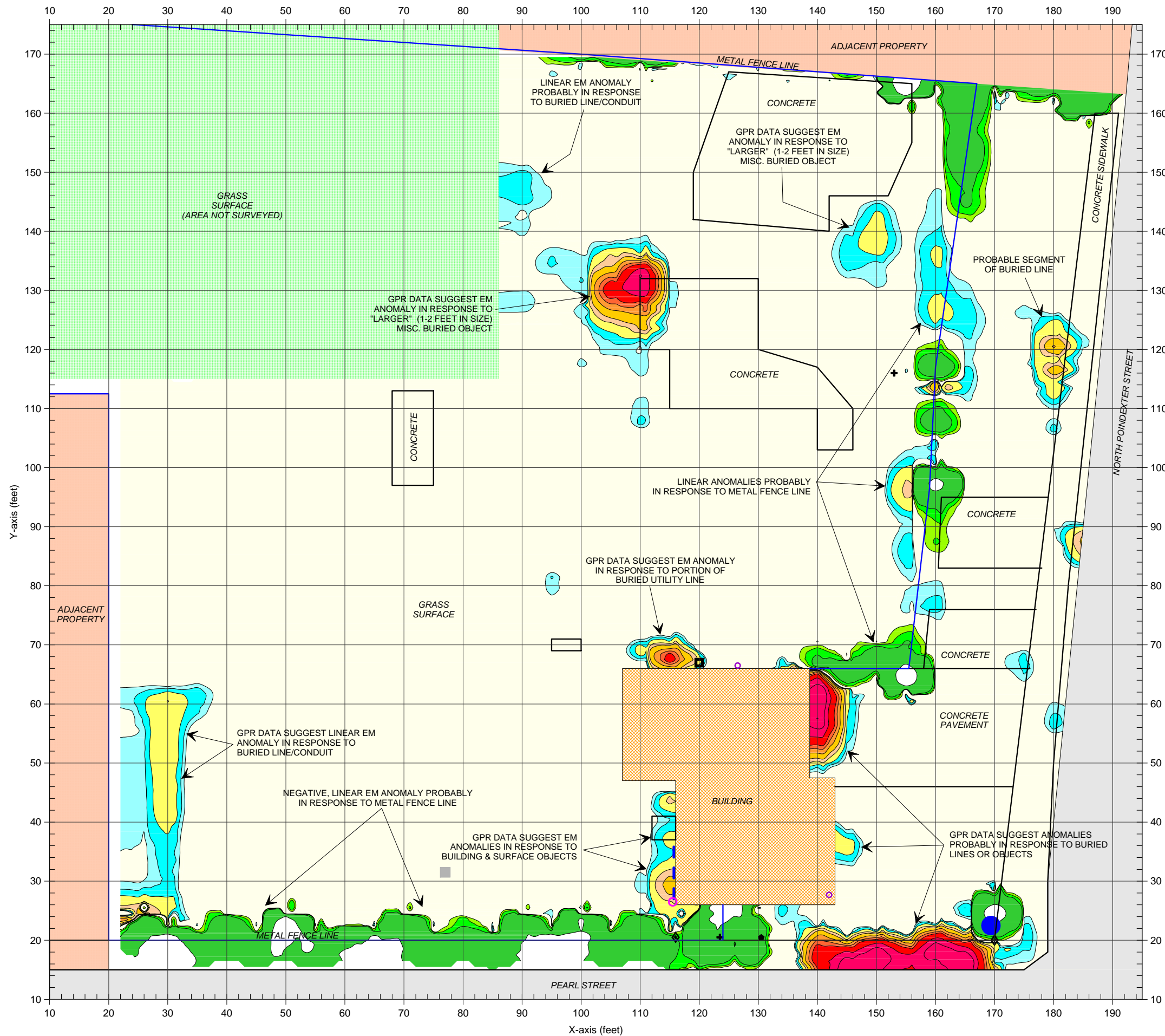
The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on July 7, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on July 9, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation detected numerous, buried lines, conduits and debris but did not detect metallic USTs within the surveyed portion of the site.

EM61 METAL DETECTION (BOTTOM COIL RESULTS)

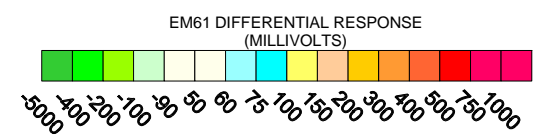
FIGURE 3

CLIENT	SOLUTIONS-IES	DATE	08/18/10	DRAWN	MJD
SITE	501 NORTH POINDEXTER STREET SITE	LAY		CHKD	
CITY	ELIZABETH CITY	DWG			
STATE	NORTH CAROLINA	L-NO.	2010-159	FIGURE	
TITLE	GEOPHYSICAL RESULTS				



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- CONCRETE COVER
- METAL FENCE LINE
- VENT PIPE
- GUY WIRE
- ROAD SIGN
- UTILITY LINE BOX
- SIGN POLE
- UTILITY POLE
- 3 UST VENT PIPES



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris. The EM61 data were collected on March 9, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 15, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation detected numerous, buried lines, conduits and debris but did not detect metallic USTs within the surveyed portion of the site.

EM61 METAL DETECTION (DIFFERENTIAL RESULTS)

FIGURE 4

DATE	07/17/10	DRAWN	MJD	FIGURE	2010-159	
CLIENT	SOLUTIONS-IES	SITE	WATER STREET PROPERTY, INC. SITE	CITY	NORTH CAROLINA	
TITLE	ELIZABETH CITY				STATE	NORTH CAROLINA
GEOPHYSICAL RESULTS						

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APPENDIX C
GPS COORDINATES

APPENDIX C
BORING LOCATION GPS COORDINATES
Water Street Property, Incorporated
501 N. Poindexter Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438

Boring Identification	Latitude	Longitude
501-1	36.302576	76.218971
501-2	36.302741	76.218818
501-3	36.302676	76.218848
501-4	36.302730	76.218791
501-5	36.302679	76.218841

APPENDIX D

BORING LOGS

Log of Soil Boring: 501-1

Project Name: Elizabeth City PSAs
 Client: NCDOT
 Project Location: Elizabeth City State: NC
 Site or Area: 501 N. Poindexter Street
 Drilling Method: Direct push
 Sample Method: Macrocore
 Logged by: KD

Solutions-IES Project Number: 3946.10A3.NDOT
 Northing: 940590.13 Easting: 2819477.4
 County: Pasquotank City: Elizabeth City
 Date Started: 8/4/10 Date Completed: 8/4/10
 Initial Water Level: 5' bgs Final Water Level: 6.2' bgs
 Date & Time (i): 8/4/10 1130 Date & Time (f): 8/4/10 1255
 WBS #: 35742.1.1 State Project #: U-4438

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		CL	tan silty-clay, medium plastic				4.6		501-1-0-2	
2		CL	tan sandy-clay, some silt, plastic		100		0.0		501-1-2-4	
4		SW	tan sand, moist, medium-grained				0.0		501-1-4-5	
6		Saturated			100					
8			End of Boring							
<p>Notes: Depth in feet</p> <p>Field screen conducted with FID, results in parts per million (ppm).</p>										

Well Construction Details

Drilling Contractor: Solutions-IES, Inc.
 Size of Borehole: 3.75" TOC Elevation: NA
 Completion: Temporary Casing Diameter: 1"
 Total Depth: 7.95 Casing Material: PVC

Screen Interval: 7.95' - 2.95' bgs
 Screen Material: PVC
 Slot Size: 0.01

Solutions-IES
 Industrial & Environmental Services
 1101 Nowell Road
 Raleigh, North Carolina 27607
 Tel.: 919.873.1060 Fax.: 919.813.1074

Log of Soil Boring: 501-2

Project Name: Elizabeth City PSAs

Solutions-IES Project Number: 3946.10A3.NDOT

Client: NCDOT

Northing: 940590.13

Easting: 2819477.4

Project Location: Elizabeth City State: NC

County: Pasquotank

City: Elizabeth City

Site or Area: 501 N. Poindexter Street

Date Started: 8/4/10

Date Completed: 8/4/10

Drilling Method: Direct push

Initial Water Level: 5' bgs

Final Water Level:

Sample Method: Macrocore

Date & Time (i): 8/4/10 1130

Date & Time (f):

Logged by: KD

Checked by:

WBS #: 35742.1.1

State Project #: U-4438

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete							
		CL	tan sandy-clay, fine-grained, dense				0.0		501-2-0-2	
2		CL	tan sandy-clay, dense		100		0.0		501-2-2-4	
4		CL	tan sandy-clay, moist, loose				0.0		501-2-4-5	
6			Saturated			100				
8			End of Boring							
<p>Notes: Depth in feet</p> <p>Field screen conducted with FID, results in parts per million (ppm).</p>										
10										

Well Construction Details

Drilling Contractor: Solutions-IES, Inc.

Size of Borehole: 3.75" TOC Elevation: NA

Screen Interval:

Completion: Casing Diameter:

Screen Material:

Total Depth: Casing Material:

Slot Size:



1101 Nowell Road
 Raleigh, North Carolina 27607
 Tel.: 919.873.1060 Fax.: 919.813.1074

Log of Soil Boring: 501-3

Project Name: Elizabeth City PSAs

Solutions-IES Project Number: 3946.10A3.NDOT

Client: NCDOT

Northing: 940566.23

Easting: 2819469.23

Project Location: Elizabeth City State: NC

County: Pasquotank

City: Elizabeth City

Site or Area: 501 N. Poindexter Street

Date Started: 8/4/10

Date Completed: 8/4/10

Drilling Method: Direct push

Initial Water Level: 5' bgs

Final Water Level:

Sample Method: Macrocore

Date & Time (i): 8/4/10 1140

Date & Time (f):

Logged by: KD

Checked by:

WBS #: 35742.1.1

State Project #: U-4438

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		SW	gray fill, gravelly, some asphalt pieces				0.0		501-3-0-2	
2		SW/SM	tan silty-sand, fine grained, some gravel		50		0.0		501-3-2-4	
4		SW	gray silty-sand, some gravel, loose, well-graded				0.0		501-3-4-5	
6		Saturated			50					
8			End of Boring							
10										

Notes: Depth in feet

Field screen conducted with FID, results in parts per million (ppm).

Well Construction Details

Drilling Contractor: Solutions-IES, Inc.

Size of Borehole: 3.75"

TOC Elevation: NA

Screen Interval:

Completion:

Casing Diameter:

Screen Material:

Total Depth:

Casing Material:

Slot Size:



1101 Nowell Road
 Raleigh, North Carolina 27607
 Tel.: 919.873.1060 Fax.: 919.813.1074

Log of Soil Boring: 501-4

Project Name: Elizabeth City PSAs

Solutions-IES Project Number: 3946.10A3.NDOT

Client: NCDOT

Northing: 940566.23

Easting: 2819469.23

Project Location: Elizabeth City State: NC

County: Pasquotank

City: Elizabeth City

Site or Area: 501 N. Poindexter Street

Date Started: 8/4/10

Date Completed: 8/4/10

Drilling Method: Direct push

Initial Water Level: 5' bgs

Final Water Level:

Sample Method: Macrocore

Date & Time (i): 8/4/10 1140

Date & Time (f):

Logged by: KD

Checked by:

WBS #: 35742.1.1

State Project #: U-4438

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		SW	gray fill, gravelly, some asphalt pieces				0.0		501-3-0-2	
2		SW/SM	tan silty-sand, fine-grained, some gravel		50		0.0		501-3-2-4	
4		SW	gray silty- sand, some gravel, loose, well-graded				0.0		501-3-4-5	
6					50					
8			End of Boring							
<p>Notes: Depth in feet</p> <p>Field screen conducted with FID, results in parts per million (ppm).</p>										

Well Construction Details

Drilling Contractor: Solutions-IES, Inc.

Size of Borehole: 3.75" TOC Elevation: NA

Screen Interval:

Completion: Casing Diameter:

Screen Material:

Total Depth: Casing Material:

Slot Size:



1101 Nowell Road
 Raleigh, North Carolina 27607
 Tel.: 919.873.1060 Fax.: 919.813.1074

Log of Soil Boring: 501-5

Project Name: Elizabeth City PSAs

Solutions-IES Project Number: 3946.10A3.NDOT

Client: NCDOT

Northing: 940567.38

Easting: 2819471.26

Project Location: Elizabeth City State: NC

County: Pasquotank

City: Elizabeth City

Site or Area: 501 N. Poindexter Street

Date Started: 8/4/10

Date Completed: 8/4/10

Drilling Method: Direct push

Initial Water Level: 5' bgs

Final Water Level:

Sample Method: Macrocore

Date & Time (i): 8/4/10 1140

Date & Time (f):

Logged by: KD

Checked by:

WBS #: 35742.1.1

State Project #: U-4438

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
		SM	tan silty-sand, topsoil, with gravel				0.0		501-5-0-2	
2		SC	tan sandy-clay, dense		100		0.0		501-5-2-4	
4		SC	tan sandy-clay, very moist				0.0		501-5-4-5	
6		Saturated			100					
8			End of Boring							
<p>Notes: Depth in feet</p> <p>Field screen conducted with FID, results in parts per milliom (ppm).</p>										
10										

Well Construction Details

Drilling Contractor: Solutions-IES, Inc.

Size of Borehole: 3.75" TOC Elevation: NA

Screen Interval:

Completion: Casing Diameter:

Screen Material:

Total Depth: Casing Material:

Slot Size:



1101 Nowell Road
 Raleigh, North Carolina 27607
 Tel.: 919.873.1060 Fax.: 919.813.1074

APPENDIX E

LABORATORY ANALYTICAL REPORT

Solutions IES (NCDOT Project)
Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's - 501 N. Poindexter St.
Project No.: WBS# 35742.1.1
Lab Submittal Date: 08/05/2010
Prism Work Order: 0080166

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.



VP Laboratory Services



Reviewed By

Data Qualifiers Key Reference:

- A Compound recovered outside established QC limits in the LCS DUP. Acceptable recovery was obtained in the LCS. No further action was taken.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- P Recovery outside of the QC limits due to inconsistency during extraction and chromatographic performance of this compound.
- 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
501-1	0080166-01	Water	08/04/10	08/05/10
501-1-0-2	0080166-02	Solid	08/04/10	08/05/10
501-3-4-5	0080166-03	Solid	08/04/10	08/05/10
501-4-4-5	0080166-04	Solid	08/04/10	08/05/10
501-5-2-4	0080166-05	Solid	08/04/10	08/05/10
501-2-2-4	0080166-06	Solid	08/04/10	08/05/10

Samples received in good condition at 3.7 degrees C unless otherwise noted.

Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
- 501 N. Poindexter St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 501-1
Prism Sample ID: 0080166-01
Prism Work Order: 0080166
Time Collected: 08/04/10 16:00
Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:20	CGP	P0H0259
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/12/10 23:20	CGP	P0H0259
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/12/10 23:20	CGP	P0H0259
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:20	CGP	P0H0259
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:20	CGP	P0H0259
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:20	CGP	P0H0259
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/12/10 23:20	CGP	P0H0259
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:20	CGP	P0H0259
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:20	CGP	P0H0259
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/12/10 23:20	CGP	P0H0259
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:20	CGP	P0H0259
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:20	CGP	P0H0259
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/12/10 23:20	CGP	P0H0259
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/12/10 23:20	CGP	P0H0259
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:20	CGP	P0H0259
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/12/10 23:20	CGP	P0H0259
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/12/10 23:20	CGP	P0H0259
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/12/10 23:20	CGP	P0H0259
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/12/10 23:20	CGP	P0H0259
4-Nitrophenol	BRL	ug/L	50	2.6	1	8270D	8/12/10 23:20	CGP	P0H0259
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:20	CGP	P0H0259
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Aniline	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/12/10 23:20	CGP	P0H0259
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:20	CGP	P0H0259
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:20	CGP	P0H0259
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259

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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Water

Client Sample ID: 501-1
 Prism Sample ID: 0080166-01
 Prism Work Order: 0080166
 Time Collected: 08/04/10 16:00
 Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/12/10 23:20	CGP	P0H0259
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:20	CGP	P0H0259
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:20	CGP	P0H0259
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:20	CGP	P0H0259
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/12/10 23:20	CGP	P0H0259
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:20	CGP	P0H0259
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:20	CGP	P0H0259
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:20	CGP	P0H0259
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:20	CGP	P0H0259
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:20	CGP	P0H0259
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/12/10 23:20	CGP	P0H0259
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:20	CGP	P0H0259
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:20	CGP	P0H0259
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:20	CGP	P0H0259
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Phenol	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:20	CGP	P0H0259
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:20	CGP	P0H0259

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	63 %	26-139
2-Fluorobiphenyl	57 %	41-112
2-Fluorophenol	29 %	10-48
Nitrobenzene-d5	52 %	34-102
Phenol-d5	15 %	10-34
Terphenyl-d14	77 %	31-165

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	1.0	0.15	1	8260B	8/11/10 22:57	KLA	P0H0263
1,1,1-Trichloroethane	BRL	ug/L	1.0	0.063	1	8260B	8/11/10 22:57	KLA	P0H0263
1,1,2,2-Tetrachloroethane	BRL	ug/L	1.0	0.071	1	8260B	8/11/10 22:57	KLA	P0H0263
1,1,2-Trichloroethane	BRL	ug/L	1.0	0.17	1	8260B	8/11/10 22:57	KLA	P0H0263
1,1-Dichloroethane	BRL	ug/L	1.0	0.096	1	8260B	8/11/10 22:57	KLA	P0H0263
1,1-Dichloroethylene	BRL	ug/L	1.0	0.078	1	8260B	8/11/10 22:57	KLA	P0H0263
1,1-Dichloropropylene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 22:57	KLA	P0H0263

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Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
- 501 N. Poindexter St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 501-1
Prism Sample ID: 0080166-01
Prism Work Order: 0080166
Time Collected: 08/04/10 16:00
Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trimethylbenzene	BRL	ug/L	1.0	0.048	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2-Dibromoethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2-Dichlorobenzene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2-Dichloroethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 22:57	KLA	P0H0263
1,2-Dichloropropane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 22:57	KLA	P0H0263
1,3,5-Trimethylbenzene	BRL	ug/L	1.0	0.057	1	8260B	8/11/10 22:57	KLA	P0H0263
1,3-Dichlorobenzene	BRL	ug/L	1.0	0.074	1	8260B	8/11/10 22:57	KLA	P0H0263
1,3-Dichloropropane	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 22:57	KLA	P0H0263
1,4-Dichlorobenzene	BRL	ug/L	1.0	0.068	1	8260B	8/11/10 22:57	KLA	P0H0263
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 22:57	KLA	P0H0263
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	8/11/10 22:57	KLA	P0H0263
2-Chlorotoluene	BRL	ug/L	1.0	0.038	1	8260B	8/11/10 22:57	KLA	P0H0263
4-Chlorotoluene	BRL	ug/L	1.0	0.053	1	8260B	8/11/10 22:57	KLA	P0H0263
4-Isopropyltoluene	BRL	ug/L	1.0	0.065	1	8260B	8/11/10 22:57	KLA	P0H0263
Acetone	BRL	ug/L	10	0.62	1	8260B	8/11/10 22:57	KLA	P0H0263
Acrolein	BRL	ug/L	100	1.1	1	8260B	8/11/10 22:57	KLA	P0H0263
Acrylonitrile	BRL	ug/L	100	0.86	1	8260B	8/11/10 22:57	KLA	P0H0263
Benzene	BRL	ug/L	1.0	0.072	1	8260B	8/11/10 22:57	KLA	P0H0263
Bromobenzene	BRL	ug/L	1.0	0.064	1	8260B	8/11/10 22:57	KLA	P0H0263
Bromochloromethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 22:57	KLA	P0H0263
Bromodichloromethane	BRL	ug/L	1.0	0.062	1	8260B	8/11/10 22:57	KLA	P0H0263
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/11/10 22:57	KLA	P0H0263
Bromomethane	BRL	ug/L	3.0	0.47	1	8260B	8/11/10 22:57	KLA	P0H0263
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/11/10 22:57	KLA	P0H0263
Carbon Tetrachloride	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 22:57	KLA	P0H0263
Chlorobenzene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 22:57	KLA	P0H0263
Chloroethane	BRL	ug/L	5.0	0.13	1	8260B	8/11/10 22:57	KLA	P0H0263
Chloroform	BRL	ug/L	1.0	0.089	1	8260B	8/11/10 22:57	KLA	P0H0263
Chloromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 22:57	KLA	P0H0263
cis-1,2-Dichloroethylene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 22:57	KLA	P0H0263
cis-1,3-Dichloropropylene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 22:57	KLA	P0H0263
Dibromochloromethane	BRL	ug/L	1.0	0.30	1	8260B	8/11/10 22:57	KLA	P0H0263
Dibromomethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 22:57	KLA	P0H0263
Dichlorodifluoromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 22:57	KLA	P0H0263
Ethylbenzene	BRL	ug/L	1.0	0.067	1	8260B	8/11/10 22:57	KLA	P0H0263
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/11/10 22:57	KLA	P0H0263
Isopropyl Ether	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 22:57	KLA	P0H0263
Isopropylbenzene (Cumene)	BRL	ug/L	1.0	0.072	1	8260B	8/11/10 22:57	KLA	P0H0263
m,p-Xylenes	BRL	ug/L	2.0	0.081	1	8260B	8/11/10 22:57	KLA	P0H0263
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/11/10 22:57	KLA	P0H0263
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/11/10 22:57	KLA	P0H0263
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/11/10 22:57	KLA	P0H0263

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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Water

Client Sample ID: 501-1
 Prism Sample ID: 0080166-01
 Prism Work Order: 0080166
 Time Collected: 08/04/10 16:00
 Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene Chloride	BRL	ug/L	2.0	0.44	1	8260B	8/11/10 22:57	KLA	P0H0263
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.070	1	8260B	8/11/10 22:57	KLA	P0H0263
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	8/11/10 22:57	KLA	P0H0263
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 22:57	KLA	P0H0263
n-Propylbenzene	BRL	ug/L	1.0	0.060	1	8260B	8/11/10 22:57	KLA	P0H0263
o-Xylene	BRL	ug/L	1.0	0.046	1	8260B	8/11/10 22:57	KLA	P0H0263
sec-Butylbenzene	BRL	ug/L	1.0	0.087	1	8260B	8/11/10 22:57	KLA	P0H0263
Styrene	BRL	ug/L	1.0	0.047	1	8260B	8/11/10 22:57	KLA	P0H0263
tert-Butylbenzene	BRL	ug/L	1.0	0.080	1	8260B	8/11/10 22:57	KLA	P0H0263
Tetrachloroethylene	BRL	ug/L	1.0	0.069	1	8260B	8/11/10 22:57	KLA	P0H0263
Toluene	BRL	ug/L	1.0	0.042	1	8260B	8/11/10 22:57	KLA	P0H0263
trans-1,2-Dichloroethylene	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 22:57	KLA	P0H0263
trans-1,3-Dichloropropylene	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 22:57	KLA	P0H0263
Trichloroethylene	BRL	ug/L	2.0	0.054	1	8260B	8/11/10 22:57	KLA	P0H0263
Trichlorofluoromethane	BRL	ug/L	2.0	0.088	1	8260B	8/11/10 22:57	KLA	P0H0263
Vinyl acetate	BRL	ug/L	20	0.10	1	8260B	8/11/10 22:57	KLA	P0H0263
Vinyl chloride	BRL	ug/L	2.0	0.16	1	8260B	8/11/10 22:57	KLA	P0H0263

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	107 %	80-124
Dibromofluoromethane	99 %	75-129
Toluene-d8	98 %	77-123

Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Solid

Client Sample ID: 501-1-0-2
 Prism Sample ID: 0080166-02
 Prism Work Order: 0080166
 Time Collected: 08/04/10 12:40
 Time Submitted: 08/05/10 18:05

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	8.7	1.4	1	*8015C	8/12/10 14:08	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			63 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.5	0.58	50	*8015C	8/10/10 4:38	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			97 %		55-129	

General Chemistry Parameters

% Solids	80.2	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Solid

Client Sample ID: 501-3-4-5
 Prism Sample ID: 0080166-03
 Prism Work Order: 0080166
 Time Collected: 08/04/10 12:42
 Time Submitted: 08/05/10 18:05

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	8.2	1.3	1	*8015C	8/12/10 20:41	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			58 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	3.6	0.47	50	*8015C	8/10/10 5:11	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			65 %		55-129	

General Chemistry Parameters

% Solids	85.5	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
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Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Solid

Client Sample ID: 501-4-4-5
 Prism Sample ID: 0080166-04
 Prism Work Order: 0080166
 Time Collected: 08/04/10 12:45
 Time Submitted: 08/05/10 18:05

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	1.5	1	*8015C	8/12/10 21:17	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			50 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.7	0.61	50	*8015C	8/10/10 5:45	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			105 %		55-129	

General Chemistry Parameters

% Solids	77.1	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Solid

Client Sample ID: 501-5-2-4
 Prism Sample ID: 0080166-05
 Prism Work Order: 0080166
 Time Collected: 08/04/10 12:48
 Time Submitted: 08/05/10 18:05

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	8/13/10 17:03	JMV	P0H0282
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			99 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.8	0.62	50	*8015C	8/10/10 6:18	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			93 %		55-129	

General Chemistry Parameters

% Solids	81.6	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
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Project: NCDOT Elizabeth City PSA's
 - 501 N. Poindexter St.
 Project No.: WBS# 35742.1.1
 Sample Matrix: Solid

Client Sample ID: 501-2-2-4
 Prism Sample ID: 0080166-06
 Prism Work Order: 0080166
 Time Collected: 08/04/10 12:50
 Time Submitted: 08/05/10 18:05

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	8/13/10 17:39	JMV	P0H0282
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			85 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.4	0.70	50	*8015C	8/10/10 16:51	HPE	P0H0224
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			103 %		55-129	

General Chemistry Parameters

% Solids	84.0	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
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Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

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 P0H0263 - 5030B										
Blank (P0H0263-BLK1)										
Prepared & Analyzed: 08/11/10										
1,1,1,2-Tetrachloroethane	BRL	1.0	ug/L							
1,1,1-Trichloroethane	BRL	1.0	ug/L							
1,1,2,2-Tetrachloroethane	BRL	1.0	ug/L							
1,1,2-Trichloroethane	BRL	1.0	ug/L							
1,1-Dichloroethane	BRL	1.0	ug/L							
1,1-Dichloroethylene	BRL	1.0	ug/L							
1,1-Dichloropropylene	BRL	1.0	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	1.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	1.0	ug/L							
1,2-Dichlorobenzene	BRL	1.0	ug/L							
1,2-Dichloroethane	BRL	1.0	ug/L							
1,2-Dichloropropane	BRL	1.0	ug/L							
1,3,5-Trimethylbenzene	BRL	1.0	ug/L							
1,3-Dichlorobenzene	BRL	1.0	ug/L							
1,3-Dichloropropane	BRL	1.0	ug/L							
1,4-Dichlorobenzene	BRL	1.0	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	1.0	ug/L							
4-Chlorotoluene	BRL	1.0	ug/L							
4-Isopropyltoluene	BRL	1.0	ug/L							
Acetone	BRL	10	ug/L							
Acrolein	BRL	100	ug/L							
Acrylonitrile	BRL	100	ug/L							
Benzene	BRL	1.0	ug/L							
Bromobenzene	BRL	1.0	ug/L							
Bromochloromethane	BRL	1.0	ug/L							
Bromodichloromethane	BRL	1.0	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	3.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	2.0	ug/L							
Chlorobenzene	BRL	1.0	ug/L							
Chloroethane	BRL	5.0	ug/L							
Chloroform	BRL	1.0	ug/L							
Chloromethane	BRL	2.0	ug/L							
cis-1,2-Dichloroethylene	BRL	1.0	ug/L							
cis-1,3-Dichloropropylene	BRL	1.0	ug/L							
Dibromochloromethane	BRL	1.0	ug/L							
Dibromomethane	BRL	1.0	ug/L							
Dichlorodifluoromethane	BRL	2.0	ug/L							
Ethylbenzene	BRL	1.0	ug/L							

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Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
501 N. Poindexter St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080166
Time Submitted: 8/5/10 6:05:00PM

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 P0H0263 - 5030B										
Blank (P0H0263-BLK1)										
Prepared & Analyzed: 08/11/10										
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	1.0	ug/L							
Isopropylbenzene (Cumene)	BRL	1.0	ug/L							
m,p-Xylenes	BRL	2.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	1.0	ug/L							
o-Xylene	BRL	1.0	ug/L							
sec-Butylbenzene	BRL	1.0	ug/L							
Styrene	BRL	1.0	ug/L							
tert-Butylbenzene	BRL	1.0	ug/L							
Tetrachloroethylene	BRL	1.0	ug/L							
Toluene	BRL	1.0	ug/L							
trans-1,2-Dichloroethylene	BRL	2.0	ug/L							
trans-1,3-Dichloropropylene	BRL	1.0	ug/L							
Trichloroethylene	BRL	2.0	ug/L							
Trichlorofluoromethane	BRL	2.0	ug/L							
Vinyl acetate	BRL	20	ug/L							
Vinyl chloride	BRL	2.0	ug/L							
Surrogate: 4-Bromofluorobenzene	26.0		ug/L	25.0		104	80-124			
Surrogate: Dibromofluoromethane	23.7		ug/L	25.0		95	75-129			
Surrogate: Toluene-d8	24.3		ug/L	25.0		97	77-123			

Solutions IES (NCDOT Project)
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 1101 Nowell Road
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Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

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 P0H0263 - 5030B										
LCS (P0H0263-BS1)										
					Prepared & Analyzed: 08/11/10					
1,1-Dichloroethylene	51.1	1.0	ug/L	50.0		102	70-154			
Benzene	53.7	1.0	ug/L	50.0		107	77-128			
Carbon Tetrachloride	60.1	2.0	ug/L	50.0		120	72-142			
Chlorobenzene	51.7	1.0	ug/L	50.0		103	78-119			
Tetrachloroethylene	53.3	1.0	ug/L	50.0		107	80-129			
Toluene	53.6	1.0	ug/L	50.0		107	76-131			
Trichloroethylene	50.2	2.0	ug/L	50.0		100	77-133			
Surrogate: 4-Bromofluorobenzene	25.7		ug/L	25.0		103	80-124			
Surrogate: Dibromofluoromethane	24.2		ug/L	25.0		97	75-129			
Surrogate: Toluene-d8	22.4		ug/L	25.0		90	77-123			
LCS Dup (P0H0263-BSD1)										
					Prepared & Analyzed: 08/11/10					
1,1-Dichloroethylene	52.3	1.0	ug/L	50.0		105	70-154	2	200	
Benzene	50.6	1.0	ug/L	50.0		101	77-128	6	200	
Carbon Tetrachloride	55.4	2.0	ug/L	50.0		111	72-142	8	200	
Chlorobenzene	49.8	1.0	ug/L	50.0		100	78-119	4	200	
Tetrachloroethylene	50.7	1.0	ug/L	50.0		101	80-129	5	200	
Toluene	50.8	1.0	ug/L	50.0		102	76-131	5	200	
Trichloroethylene	48.2	2.0	ug/L	50.0		96	77-133	4	200	
Surrogate: 4-Bromofluorobenzene	25.2		ug/L	25.0		101	80-124			
Surrogate: Dibromofluoromethane	24.7		ug/L	25.0		99	75-129			
Surrogate: Toluene-d8	23.1		ug/L	25.0		93	77-123			

Solutions IES (NCDOT Project)
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 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0259 - 3510C MS										
Blank (P0H0259-BLK1)										
Prepared: 08/11/10 Analyzed: 08/12/10										
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							

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Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
501 N. Poindexter St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080166
Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0259 - 3510C MS

Blank (P0H0259-BLK1)

Prepared: 08/11/10 Analyzed: 08/12/10

Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	58.7		ug/L	100		59	26-139			
Surrogate: 2-Fluorobiphenyl	36.3		ug/L	50.0		73	41-112			
Surrogate: 2-Fluorophenol	45.6		ug/L	100		46	10-48			
Surrogate: Nitrobenzene-d5	34.9		ug/L	50.0		70	34-102			
Surrogate: Phenol-d5	25.3		ug/L	100		25	10-34			
Surrogate: Terphenyl-d14	46.6		ug/L	50.0		93	31-165			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0259 - 3510C MS										
LCS (P0H0259-BS1)										
				Prepared: 08/11/10 Analyzed: 08/12/10						
1,2,4-Trichlorobenzene	29.4	10	ug/L	50.0		59	39-102			
1,2-Dichlorobenzene	28.3	10	ug/L	50.0		57	46-90			
1,3-Dichlorobenzene	27.6	10	ug/L	50.0		55	31-100			
1,4-Dichlorobenzene	27.9	10	ug/L	50.0		56	45-89			
2,4,5-Trichlorophenol	39.2	10	ug/L	50.0		78	60-108			
2,4,6-Trichlorophenol	37.9	10	ug/L	50.0		76	48-118			
2,4-Dichlorophenol	35.8	10	ug/L	50.0		72	38-107			
2,4-Dimethylphenol	33.7	10	ug/L	50.0		67	26-108			
2,4-Dinitrophenol	28.2	10	ug/L	50.0		56	10-157			
2,4-Dinitrotoluene	41.6	10	ug/L	50.0		83	61-139			
2,6-Dinitrotoluene	39.1	10	ug/L	50.0		78	55-141			
2-Chloronaphthalene	31.8	10	ug/L	50.0		64	46-114			
2-Chlorophenol	30.8	10	ug/L	50.0		62	39-80			
2-Methylnaphthalene	36.3	10	ug/L	50.0		73	39-107			
2-Methylphenol	24.9	10	ug/L	50.0		50	24-73			
2-Nitroaniline	36.0	10	ug/L	50.0		72	65-123			
2-Nitrophenol	35.2	10	ug/L	50.0		70	40-111			
3,3'-Dichlorobenzidine	27.9	10	ug/L	50.0		56	25-203			
3/4-Methylphenol	22.8	10	ug/L	50.0		46	22-84			
3-Nitroaniline	57.3	10	ug/L	50.0		115	66-131			
4,6-Dinitro-2-methylphenol	28.0	10	ug/L	50.0		56	31-155			
4-Bromophenyl phenyl ether	39.8	10	ug/L	50.0		80	50-131			
4-Chloro-3-methylphenol	32.9	10	ug/L	50.0		66	48-94			
4-Chloroaniline	53.4	10	ug/L	50.0		107	45-120			
4-Chlorophenyl phenyl ether	39.1	10	ug/L	50.0		78	55-125			
4-Nitroaniline	39.6	10	ug/L	50.0		79	63-138			
4-Nitrophenol	5.92	50	ug/L	50.0		12	10-89			J
Acenaphthene	37.9	10	ug/L	50.0		76	53-118			
Acenaphthylene	39.5	10	ug/L	50.0		79	52-121			
Aniline	47.8	10	ug/L	50.0		96	24-105			
Anthracene	44.0	10	ug/L	50.0		88	59-138			
Azobenzene	41.0	10	ug/L	50.0		82	65-123			
Benzo(a)anthracene	41.4	10	ug/L	50.0		83	63-138			
Benzo(a)pyrene	43.2	10	ug/L	50.0		86	67-142			
Benzo(b)fluoranthene	39.9	10	ug/L	50.0		80	58-151			
Benzo(g,h,i)perylene	32.8	10	ug/L	50.0		66	47-151			
Benzo(k)fluoranthene	54.5	10	ug/L	50.0		109	45-155			
Benzoic Acid	BRL	100	ug/L	50.0			10-125			P
Benzyl alcohol	24.2	10	ug/L	50.0		48	25-77			
bis(2-Chloroethoxy)methane	35.6	10	ug/L	50.0		71	42-119			
Bis(2-Chloroethyl)ether	34.6	10	ug/L	50.0		69	38-109			
Bis(2-chloroisopropyl)ether	30.7	10	ug/L	50.0		61	31-117			
Bis(2-Ethylhexyl)phthalate	42.3	10	ug/L	50.0		85	52-165			
Butyl benzyl phthalate	44.2	10	ug/L	50.0		88	51-162			
Chrysene	44.3	10	ug/L	50.0		89	59-137			
Dibenzo(a,h)anthracene	32.4	10	ug/L	50.0		65	43-161			

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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0259 - 3510C MS										
LCS (P0H0259-BS1)										
				Prepared: 08/11/10 Analyzed: 08/12/10						
Dibenzofuran	38.4	10	ug/L	50.0		77	63-115			
Diethyl phthalate	41.7	10	ug/L	50.0		83	54-135			
Dimethyl phthalate	41.3	10	ug/L	50.0		83	46-135			
Di-n-butyl phthalate	44.1	10	ug/L	50.0		88	51-142			
Di-n-octyl phthalate	44.4	10	ug/L	50.0		89	54-160			
Fluoranthene	42.3	10	ug/L	50.0		85	52-137			
Fluorene	40.7	10	ug/L	50.0		81	56-122			
Hexachlorobenzene	35.5	10	ug/L	50.0		71	57-129			
Hexachlorobutadiene	28.2	10	ug/L	50.0		56	34-110			
Hexachlorocyclopentadiene	21.8	10	ug/L	50.0		44	27-120			
Hexachloroethane	27.0	10	ug/L	50.0		54	37-98			
Indeno(1,2,3-cd)pyrene	28.2	10	ug/L	50.0		56	24-172			
Isophorone	36.6	10	ug/L	50.0		73	44-117			
Naphthalene	35.2	10	ug/L	50.0		70	37-108			
Nitrobenzene	32.1	10	ug/L	50.0		64	29-120			
N-Nitroso-di-n-propylamine	32.8	10	ug/L	50.0		66	42-115			
N-Nitrosodiphenylamine	62.0	10	ug/L	50.0		124	69-142			
Pentachlorophenol	25.8	10	ug/L	50.0		52	42-156			
Phenanthrene	42.0	10	ug/L	50.0		84	60-133			
Phenol	11.2	10	ug/L	50.0		22	10-47			
Pyrene	46.7	10	ug/L	50.0		93	50-152			
Surrogate: 2,4,6-Tribromophenol	75.2		ug/L	100		75	26-139			
Surrogate: 2-Fluorobiphenyl	35.6		ug/L	50.0		71	41-112			
Surrogate: 2-Fluorophenol	33.2		ug/L	100		33	10-48			
Surrogate: Nitrobenzene-d5	32.2		ug/L	50.0		64	34-102			
Surrogate: Phenol-d5	18.1		ug/L	100		18	10-34			
Surrogate: Terphenyl-d14	37.4		ug/L	50.0		75	31-165			

Solutions IES (NCDOT Project)
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 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0259 - 3510C MS										
LCS Dup (P0H0259-BSD1)										
					Prepared: 08/11/10 Analyzed: 08/12/10					
1,2,4-Trichlorobenzene	25.8	10	ug/L	50.0	52	39-102	13	200		
1,2-Dichlorobenzene	25.2	10	ug/L	50.0	50	46-90	11	200		
1,3-Dichlorobenzene	23.8	10	ug/L	50.0	48	31-100	15	200		
1,4-Dichlorobenzene	25.4	10	ug/L	50.0	51	45-89	9	200		
2,4,5-Trichlorophenol	33.5	10	ug/L	50.0	67	60-108	16	200		
2,4,6-Trichlorophenol	32.0	10	ug/L	50.0	64	48-118	17	200		
2,4-Dichlorophenol	30.0	10	ug/L	50.0	60	38-107	18	200		
2,4-Dimethylphenol	29.4	10	ug/L	50.0	59	26-108	14	200		
2,4-Dinitrophenol	23.4	10	ug/L	50.0	47	10-157	19	200		
2,4-Dinitrotoluene	35.2	10	ug/L	50.0	70	61-139	17	200		
2,6-Dinitrotoluene	34.5	10	ug/L	50.0	69	55-141	13	200		
2-Chloronaphthalene	29.7	10	ug/L	50.0	59	46-114	7	200		
2-Chlorophenol	27.3	10	ug/L	50.0	55	39-80	12	200		
2-Methylnaphthalene	31.6	10	ug/L	50.0	63	39-107	14	200		
2-Methylphenol	22.2	10	ug/L	50.0	44	24-73	12	200		
2-Nitroaniline	31.4	10	ug/L	50.0	63	65-123	14	200		A
2-Nitrophenol	30.3	10	ug/L	50.0	61	40-111	15	200		
3,3'-Dichlorobenzidine	22.7	10	ug/L	50.0	45	25-203	21	200		
3/4-Methylphenol	20.8	10	ug/L	50.0	42	22-84	9	200		
3-Nitroaniline	50.0	10	ug/L	50.0	100	66-131	14	200		
4,6-Dinitro-2-methylphenol	23.5	10	ug/L	50.0	47	31-155	18	200		
4-Bromophenyl phenyl ether	33.6	10	ug/L	50.0	67	50-131	17	200		
4-Chloro-3-methylphenol	28.5	10	ug/L	50.0	57	48-94	14	200		
4-Chloroaniline	46.4	10	ug/L	50.0	93	45-120	14	200		
4-Chlorophenyl phenyl ether	33.3	10	ug/L	50.0	67	55-125	16	200		
4-Nitroaniline	33.6	10	ug/L	50.0	67	63-138	16	200		
4-Nitrophenol	5.23	50	ug/L	50.0	10	10-89	12	200		J
Acenaphthene	33.2	10	ug/L	50.0	66	53-118	13	200		
Acenaphthylene	34.8	10	ug/L	50.0	70	52-121	13	200		
Aniline	43.6	10	ug/L	50.0	87	24-105	9	200		
Anthracene	38.2	10	ug/L	50.0	76	59-138	14	200		
Azobenzene	36.0	10	ug/L	50.0	72	65-123	13	200		
Benzo(a)anthracene	36.0	10	ug/L	50.0	72	63-138	14	200		
Benzo(a)pyrene	38.8	10	ug/L	50.0	78	67-142	11	200		
Benzo(b)fluoranthene	34.1	10	ug/L	50.0	68	58-151	16	200		
Benzo(g,h,i)perylene	25.9	10	ug/L	50.0	52	47-151	24	200		
Benzo(k)fluoranthene	48.3	10	ug/L	50.0	97	45-155	12	200		
Benzoic Acid	BRL	100	ug/L	50.0		10-125		200		P
Benzyl alcohol	21.9	10	ug/L	50.0	44	25-77	10	200		
bis(2-Chloroethoxy)methane	31.3	10	ug/L	50.0	63	42-119	13	200		
Bis(2-Chloroethyl)ether	30.9	10	ug/L	50.0	62	38-109	11	200		
Bis(2-chloroisopropyl)ether	27.5	10	ug/L	50.0	55	31-117	11	200		
Bis(2-Ethylhexyl)phthalate	36.4	10	ug/L	50.0	73	52-165	15	200		
Butyl benzyl phthalate	37.7	10	ug/L	50.0	75	51-162	16	200		
Chrysene	38.0	10	ug/L	50.0	76	59-137	15	200		
Dibenzo(a,h)anthracene	25.4	10	ug/L	50.0	51	43-161	24	200		

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 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H0259 - 3510C MS										
LCS Dup (P0H0259-BSD1)										
					Prepared: 08/11/10 Analyzed: 08/12/10					
Dibenzofuran	33.1	10	ug/L	50.0	66	63-115	15	200		
Diethyl phthalate	37.0	10	ug/L	50.0	74	54-135	12	200		
Dimethyl phthalate	35.7	10	ug/L	50.0	71	46-135	14	200		
Di-n-butyl phthalate	38.4	10	ug/L	50.0	77	51-142	14	200		
Di-n-octyl phthalate	37.7	10	ug/L	50.0	75	54-160	16	200		
Fluoranthene	36.4	10	ug/L	50.0	73	52-137	15	200		
Fluorene	35.6	10	ug/L	50.0	71	56-122	13	200		
Hexachlorobenzene	30.0	10	ug/L	50.0	60	57-129	17	200		
Hexachlorobutadiene	24.6	10	ug/L	50.0	49	34-110	14	200		
Hexachlorocyclopentadiene	17.3	10	ug/L	50.0	35	27-120	23	200		
Hexachloroethane	24.3	10	ug/L	50.0	49	37-98	11	200		
Indeno(1,2,3-cd)pyrene	22.5	10	ug/L	50.0	45	24-172	23	200		
Isophorone	31.9	10	ug/L	50.0	64	44-117	14	200		
Naphthalene	31.4	10	ug/L	50.0	63	37-108	11	200		
Nitrobenzene	28.2	10	ug/L	50.0	56	29-120	13	200		
N-Nitroso-di-n-propylamine	28.6	10	ug/L	50.0	57	42-115	14	200		
N-Nitrosodiphenylamine	52.1	10	ug/L	50.0	104	69-142	17	200		
Pentachlorophenol	21.4	10	ug/L	50.0	43	42-156	19	200		
Phenanthrene	36.5	10	ug/L	50.0	73	60-133	14	200		
Phenol	10.3	10	ug/L	50.0	21	10-47	8	200		
Pyrene	40.2	10	ug/L	50.0	80	50-152	15	200		
Surrogate: 2,4,6-Tribromophenol	63.5		ug/L	100	63	26-139				
Surrogate: 2-Fluorobiphenyl	31.1		ug/L	50.0	62	41-112				
Surrogate: 2-Fluorophenol	31.0		ug/L	100	31	10-48				
Surrogate: Nitrobenzene-d5	28.3		ug/L	50.0	57	34-102				
Surrogate: Phenol-d5	19.8		ug/L	100	20	10-34				
Surrogate: Terphenyl-d14	32.3		ug/L	50.0	65	31-165				

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 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

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 P0H0204 - 5035										
Blank (P0H0204-BLK1) Prepared & Analyzed: 08/09/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.90		mg/kg wet	5.00		98	55-129			
LCS (P0H0204-BS1) Prepared & Analyzed: 08/09/10										
Gasoline Range Organics	44.6	5.0	mg/kg wet	50.0		89	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.50		mg/kg wet	5.00		110	55-129			
LCS Dup (P0H0204-BSD1) Prepared & Analyzed: 08/09/10										
Gasoline Range Organics	46.1	5.0	mg/kg wet	50.0		92	67-116	3	200	
Surrogate: a,a,a-Trifluorotoluene	5.55		mg/kg wet	5.00		111	55-129			
Batch P0H0224 - 5035										
Blank (P0H0224-BLK1) Prepared & Analyzed: 08/10/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.10		mg/kg wet	5.00		102	55-129			
LCS (P0H0224-BS1) Prepared & Analyzed: 08/10/10										
Gasoline Range Organics	45.3	5.0	mg/kg wet	50.0		91	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.55		mg/kg wet	5.00		111	55-129			
LCS Dup (P0H0224-BSD1) Prepared & Analyzed: 08/10/10										
Gasoline Range Organics	46.8	5.0	mg/kg wet	50.0		94	67-116	3	200	
Surrogate: a,a,a-Trifluorotoluene	5.65		mg/kg wet	5.00		113	55-129			
Matrix Spike (P0H0224-MS1) Source: 0080166-06 Prepared & Analyzed: 08/10/10										
Gasoline Range Organics	47.2	6.0	mg/kg dry	59.5	BRL	79	57-113			
Surrogate: a,a,a-Trifluorotoluene	6.19		mg/kg dry	5.95		104	55-129			

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Prism Work Order: 0080166
Time Submitted: 8/5/10 6:05:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0224 - 5035

Matrix Spike Dup (P0H0224-MSD1)

Source: 0080166-06

Prepared & Analyzed: 08/10/10

Gasoline Range Organics	50.8	6.0	mg/kg dry	59.5	BRL	85	57-113	7	23	
Surrogate: a,a,a-Trifluorotoluene	6.49		mg/kg dry	5.95		109	55-129			

Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

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 P0H0245 - 3545A										
Blank (P0H0245-BLK1) Prepared: 08/10/10 Analyzed: 08/12/10										
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.23		mg/kg wet	1.60		77	49-124			
LCS (P0H0245-BS1) Prepared: 08/10/10 Analyzed: 08/12/10										
Diesel Range Organics	62.0	7.0	mg/kg wet	80.0		78	55-109			
Surrogate: <i>o</i> -Terphenyl	1.76		mg/kg wet	1.60		110	49-124			
LCS Dup (P0H0245-BSD1) Prepared: 08/10/10 Analyzed: 08/12/10										
Diesel Range Organics	65.7	7.0	mg/kg wet	80.0		82	55-109	6	200	
Surrogate: <i>o</i> -Terphenyl	1.76		mg/kg wet	1.60		110	49-124			
Batch P0H0282 - 3545A										
Blank (P0H0282-BLK1) Prepared: 08/11/10 Analyzed: 08/13/10										
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.95		mg/kg wet	1.60		122	49-124			
LCS (P0H0282-BS1) Prepared: 08/11/10 Analyzed: 08/13/10										
Diesel Range Organics	70.7	7.0	mg/kg wet	80.0		88	55-109			
Surrogate: <i>o</i> -Terphenyl	2.54		mg/kg wet	1.60		159	49-124			SR
LCS Dup (P0H0282-BSD1) Prepared: 08/11/10 Analyzed: 08/13/10										
Diesel Range Organics	80.0	7.0	mg/kg wet	79.9		100	55-109	12	200	
Surrogate: <i>o</i> -Terphenyl	2.75		mg/kg wet	1.60		172	49-124			SR
Matrix Spike (P0H0282-MS1) Source: 0080166-06 Prepared: 08/11/10 Analyzed: 08/13/10										
Diesel Range Organics	84.9	8.3	mg/kg dry	95.2	BRL	89	50-117			
Surrogate: <i>o</i> -Terphenyl	2.92		mg/kg dry	1.90		153	49-124			SR

Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
501 N. Poindexter St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080166
Time Submitted: 8/5/10 6:05:00PM

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 P0H0282 - 3545A										
Matrix Spike Dup (P0H0282-MSD1)										
Source: 0080166-06 Prepared: 08/11/10 Analyzed: 08/13/10										
Diesel Range Organics	83.7	8.3	mg/kg dry	95.2	BRL	88	50-117	1	24	
Surrogate: o-Terphenyl	2.91		mg/kg dry	1.90		153	49-124			SR

Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 501 N. Poindexter St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080166
 Time Submitted: 8/5/10 6:05:00PM

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 P0H0272 - NO PREP

Duplicate (P0H0272-DUP1) Source: 0080166-06 Prepared & Analyzed: 08/11/10

% Solids	84.1	0.100	% by Weight		84.0			0.1	20	
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Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0080166-02	P0H0245	25.09 g	1 mL	08/10/10
0080166-03	P0H0245	25.09 g	1 mL	08/10/10
0080166-04	P0H0245	25.11 g	1 mL	08/10/10
0080166-05	P0H0282	25.04 g	1 mL	08/11/10
0080166-06	P0H0282	25.02 g	1 mL	08/11/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0080166-02	P0H0204	6.99 g	5 mL	08/09/10
0080166-03	P0H0204	8.16 g	5 mL	08/09/10
0080166-04	P0H0204	6.96 g	5 mL	08/09/10
0080166-05	P0H0204	6.4 g	5 mL	08/09/10
0080166-06	P0H0224	5.53 g	5 mL	08/10/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0080166-02	P0H0272	30 g	30 mL	08/11/10
0080166-03	P0H0272	30 g	30 mL	08/11/10
0080166-04	P0H0272	30 g	30 mL	08/11/10
0080166-05	P0H0272	30 g	30 mL	08/11/10
0080166-06	P0H0272	30 g	30 mL	08/11/10

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date
0080166-01	P0H0259	1000 mL	1 mL	08/11/10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date
0080166-01	P0H0263	10 mL	10 mL	08/11/10

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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: Solutions-IES
Report To/Contact Name: Jody Overmyer
Reporting Address: 1101 Nowell Road
Raleigh, NC

Phone: 919-873-1060 Fax (Yes) (No):
Email (Yes) (No) Email Address: Jovermyer@solutionsies.com
EDD Type: PDF Excel Other
Site Location Name: NCDOT Elizabeth City PSA
Site Location Physical Address: 501 N. Poindexter St

CHAIN OF CUSTODY RECORD

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

Project Name: NCDOT Elizabeth City PSAs - 501 Poindexter St
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: NCDOT WBS # 35742.1.1
Address: _____

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>3.8</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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

Purchase Order No./Billing Reference 4300132875
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)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC USACE FL NC
SC OTHER N/A
Water Chlorinated: YES NO
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		8260	8270	TPH	GC/MS					
501-1	8/4/10	1600	water	VOA, A	3	40ml, 1L		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							01
501-1-0-2	8/4/10	1240	soil	VOA, G	4	40ml, 12oz				<input checked="" type="checkbox"/>						02
501-3-45	8/4/10	1242	soil							<input checked="" type="checkbox"/>						03
501-4-45	8/4/10	1245	soil							<input checked="" type="checkbox"/>						04
501-5-2-4	8/4/10	1248	soil							<input checked="" type="checkbox"/>						05
501-2-2-4	8/4/10	1250	soil							<input checked="" type="checkbox"/>						06

Sampler's Signature Kathryn Doll Sampled By (Print Name) Kathryn Doll Affiliation Solutions-IES

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>Kathryn Doll</u>	Received By: (Signature) <u>Alex Lessert</u>	Date <u>080510</u>	Military/Hours <u>1120</u>
Relinquished By: (Signature) <u>Alex Lessert</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>080510</u>	Military/Hours <u>1150</u>
Relinquished By: (Signature) <u>[Signature]</u>	Received By Prism Laboratories By: <u>[Signature]</u>	Date <u>8-5-10</u>	Military/Hours <u>1600</u>
Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand-delivered <input checked="" type="checkbox"/> Prism Field Service <input type="checkbox"/> Other _____		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.	
		COC Group No. <u>0080166</u>	

Additional Comments:
Relinquished by Jim Mori 8-5-10 1605

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

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 TI = Teflon-Lined Can VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS
Page 26 of 26
ORIGINAL
8/5/10