PRELIMINARY SITE ASSESSMENT
VALUE MART, INC. PROPERTY
229 NORTH WATER STREET
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1

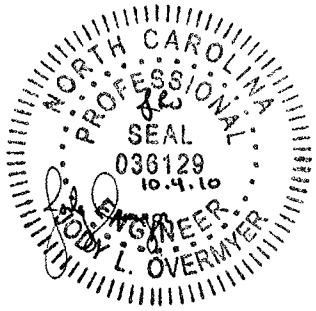
Prepared for:

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

Prepared by:

Solutions-IES
1101 Nowell Road
Raleigh, North Carolina 27607

Solutions-IES Project No. 3946.10A3.NDOT



September 13, 2010

Jody Overmyer, P.E.
Project Engineer

Sheri L. Knox
Senior Project Manager

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1.0 INTRODUCTION

The Value Mart, Inc. property in Pasquotank County, located at 229 North Water Street, Elizabeth City, North Carolina, is currently a gravel lot used for parking. The location of the property is shown on **Figures 1** and **2**. The North Carolina Department of Transportation (NCDOT) plans to acquire the proposed easement at this property due to the planned widening of Elizabeth Street in downtown Elizabeth City. 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

The Value Mart, Inc. property is located in the southwest quadrant of East Elizabeth Street and North Water Street. The original building on site was torn down in 2004. A historic 1948 Sanborn map indicates this property formerly operated as a gas station (**Appendix A**). According to the North Carolina Department of Environment and Natural Resources (NCDENR) underground storage tank (UST) registry, there are no known Facility IDs or Groundwater Incidents associated with this property. The PSA was performed along the proposed easement which stretched west to east along the south side of East Elizabeth Street continuing on a north to south trend along North Water Street. Work was not performed in areas outside of the proposed easement. Photographs of the site are included in **Appendix B**.

3.0 FIELD ACTIVITIES

Prior to mobilizing to the site 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 8, 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 surveyed portion within the proposed easement does not contain metallic USTs. Images of the EM and GPR findings are included in the geophysical report included as **Appendix C**. After a review of the geophysical report, Solutions-IES mobilized to the site on August 3 and August 4,

2010, to collect soil and groundwater samples. Four soil borings were advanced using a Geoprobe® to a depth of 4 feet below ground surface (ft bgs). The approximate locations of the soil borings are displayed in **Figure 3**. The GPS coordinates of the boring locations are included in **Appendix D**. Boring 229-2 was advanced to a depth of 8 ft bgs to install a temporary well. Other borings were not advanced below 4 ft bgs due to soil saturation.

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 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 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 E** 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 sands and gravel (Unified Soil Classification SP and GP). Groundwater was measured at approximately 4 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 were below detectable concentrations. One soil sample was collected from each boring interval identified in **Table 1** and analyzed for total petroleum hydrocarbons gasoline range organics and diesel range organics (TPH GRO/DRO) by EPA Methods 5035/3545/8015. Each collected sample was placed in laboratory-supplied jars and stored on ice pending courier service to Prism Laboratories in Charlotte, NC. Two soil samples collected at borings 229-1 and 229-2 were also analyzed for fecal coliform by method SM9221E. Each collected sample was placed in laboratory-supplied jars and stored on ice pending courier service to Environment 1 in Greenville, NC. Sample information was recorded on the chain-of-custody form.

Due to the shallow water table, a temporary groundwater monitoring wells was installed and sampled. Upon completion of boring 229-2, 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 3 to 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 wells were allowed to equilibrate for approximately 30 minutes before sampling and promptly abandoned once sampling was complete. **Appendix E** contains the boring log and well construction information for 229-2. The stabilized water level was measured at 4.6 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 Method 8260, semivolatile organic compounds (SVOCs) by EPA Method 8270 and fecal coliform by method SM9221E. Samples were placed in laboratory-supplied jars then stored on ice pending courier service to Prism Laboratories in Charlotte, NC (VOCs/SVOCs analysis) or Environment 1 in Greenville, NC (fecal coliform). Sample information was recorded on the chain-of-custody form.

4.0 LABORATORY RESULTS

The laboratory analytical results for the groundwater sample collected from temporary well 229-2 indicate the presence of the VOC methyl *tert*-butyl ether (MTBE) and fecal coliform bacteria above the laboratory reporting limits. The concentration of MTBE was detected at 0.72 micrograms per liter (µg/L) which is below the NCAC 15A 2L.0200 (NC 2L) groundwater standard[1] of 20 µg/L, as specified in. Fecal coliform analysis was reported at 13 most probable number of cells per 100 milliliters (MPN/100 mL) which is above the NC 2L standard of 1 MPN/100 mL. The analytical results are summarized in **Tables 2** and **3**, and the laboratory report is included in **Appendix F**. TPH and fecal coliform bacteria were not detected above the laboratory reporting limit in soil samples, and SVOCs were not detected above the laboratory reporting limits in the groundwater sample from temporary well 229-2.

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 surveyed portion of the proposed easement. Solutions-IES advanced 4 soil borings at

[1] *North Carolina Administrative Code Title 15A DENR Division of Water Quality (DWQ) Subchapter 2L Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina (Last Amended on January 1, 2010)*

the study area to a depth of 4 ft bgs for soil characterization. Boring 229-2 was further advanced to a depth of 8 ft bgs for the installation of a temporary monitoring well. FID readings collected from the soil sample intervals were not detected for samples indicating the absence of volatile vapors. TPH and fecal coliform bacteria were not detected above the laboratory reporting limit in the soil samples submitted for analysis from the Value Mart, Inc. property. Therefore, TPH (GRO and DRO) soil concentrations were below the NCDENR action levels[2]. One VOC (MTBE) was detected above the laboratory detection limit but below the NC 2L standard, while no SVOCs were detected above the laboratory detection limits in the groundwater samples collected from the site. However, fecal coliform bacteria were detected above the NC 2L standard for groundwater in well 229-2 Therefore, Solutions-IES recommends that NCDOT consider exposure of workers to impacted groundwater when planning construction activities at the site. However, additional assessment would be necessary to identify the source of the fecal coliform impact.

[2] *UST Section Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases* (*[NCDENR, Division of Waste Management [DWM], UST Section, July 1, 2007).*

TABLES

TABLE 1
Summary of Field Screening Results for Soil
Value Mart, Inc.
229 N. Water Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 3, 2010

Sample Depth Below Ground Surface	Soil Boring			
	229-1	229-2	229-3	229-4
	FID Reading (ppm)			
0 - 2 feet	0.0	0.0	0.0	0.0
2 - 4 feet	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
Value Mart, Inc.
229 N. Water Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 3, 2010

Sample Information		Total Petroleum Hydrocarbons		
Boring Number	**Depth (ft bgs)**	**Gasoline Range[1] (mg/kg)**	**Diesel Range[2] (mg/kg)**	**Fecal Coliform[3] (MPN/g)**
229-1	2-4	<6.4	<9.2	NA
229-2	2-4	<5.0	<7.8	<2
229-3	2-4	<5.3	<7.9	NA
229-4	2-4	<6.3	<9.0	<2
Action Level		10	40	NE

Notes:

1. Total Petroleum Hydrocarbons (TPH) Method 5035/8015MOD - Gasoline Range Hydrocarbons
2. Total Petroleum Hydrocarbons (TPH) Method 3545/8015MOD - Diesel Range Hydrocarbons
3. Fecal Coliform SM9221 E

ft bgs = feet below ground surface
mg/kg = milligram per kilogram
MPN/g = most probable number per gram
NA = Not analyzed
NE = Not established

TABLE 3
Summary of Groundwater Analytical Results
Value Mart, Inc.
229 N. Water 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) (8260)	SVOCs (µg/L) (8270)	
Sample ID	**Sample Date**	**Methyl *tert*-butyl ether**	**All Analytes**	**Fecal Coliform (MPN/100 mL)**
229-2	8/4/2010	**0.72 J**	**BRL**	**13**
NC 2L Groundwater Quality Standards		20	NA	1

Notes:

VOCs = Volatile organic compounds by EPA Method 8260

SVOCs = Semivolatile organic compounds by EPA Method 8270

Fecal Coliform by SM9221 E

µg/L = Micrograms per liter

MPN/100 mL = Most probable number cells per 100 milliliters

Bold indicates value exceeds laboratory reporting limit.

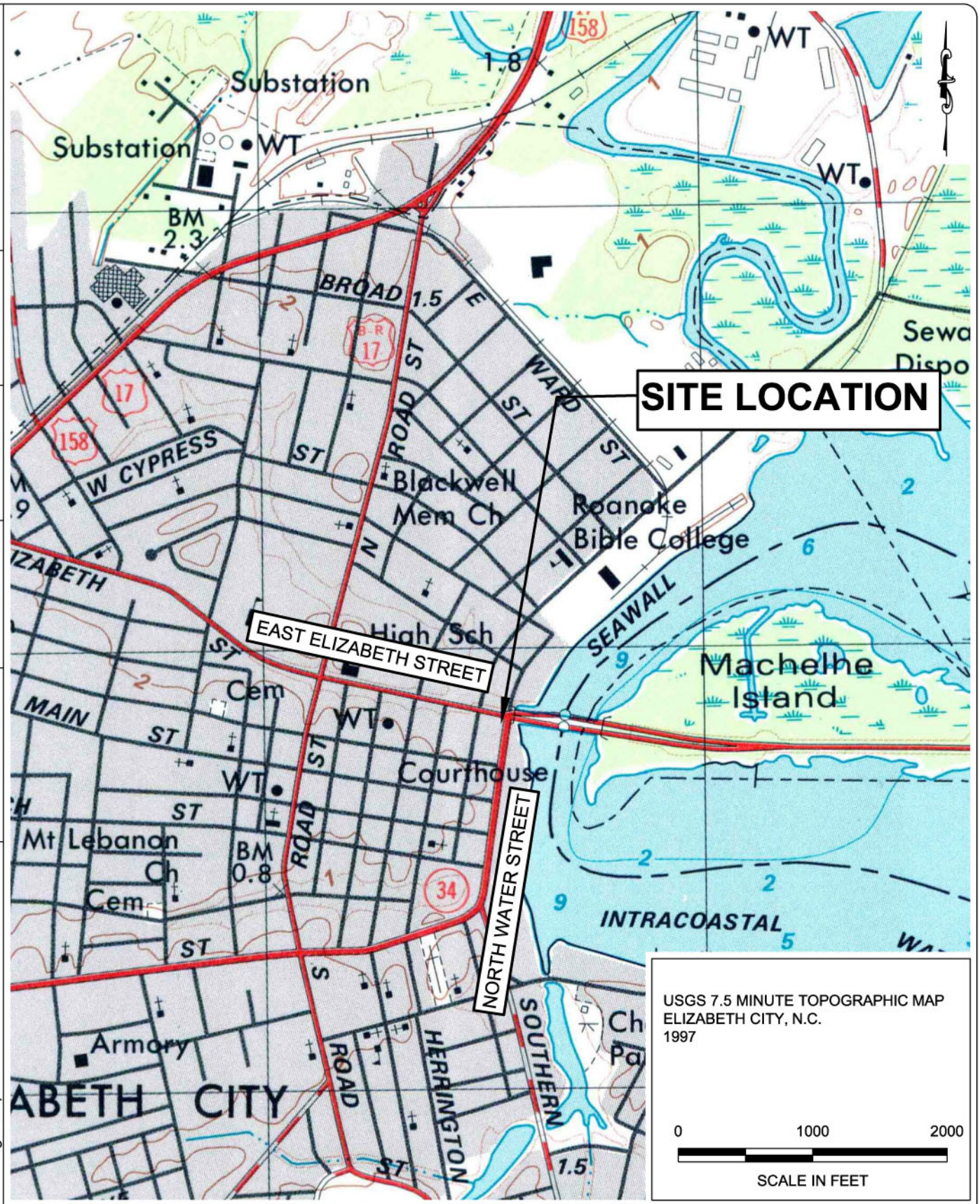
J = The analyte was positively identified but the value is estimated below the reporting limit

BRL = Below the laboratory reporting limit

Shaded values exceed NC 2L Groundwater Quality Standards (Janurary, 2010).

NA = Not analyzed/Not applicable

FIGURES



PROJECT NUMBER 3946.10A3.NDOT
DRAFTER HRG
CHECKED BY SK
PROJECT MANAGER JO
DATE 09/13/2010
FILE Figure 1.pdf

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

VALUE MART INCORPORATED
229 NORTH WATER STREET
ELIZABETH CITY, NORHT CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1

FIGURE:
1

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PROJECT NUMBER 3946.10A3.NDOT

DRAFTER HRG

CHECKED BY SK

PROJECT MANAGER JO

DATE 09/20/2010

FILE Figure 2.pdf

EAST ELIZABETH STREET

PROPOSED EASEMENT

17

18

19

20

S 82° 38'35" E 80.47'

S 82° 38'35" E 80.60'

S 07° 21'25" W 40.00'

S 82° 38'35" E 80.86'

S 82° 38'35" E 81.02'

S 07° 21'25" W 40.00'

S 08° 03'03" W 54.38'

S 08° 03'03" W

S 07° 21'

VALUE MART, INC., a NORTH CAROLINA CORPORATION

NORTH WATER STREET

N

LEGEND

PROPOSED ROW LOCATION

0 20 40

SCALE IN FEET

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

VALUE MART, INC. PROPERTY
229 NORTH WATER STREET
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1

SITE MAP

FIGURE: 2

...\Gravel Lot-Figure 2.dgn 9/21/2010 10:50:17 AM

PROJECT NUMBER 3946.10A3.NDOT

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PROJECT MANAGER JO

DATE 09/20/2010

FILE Figure 3.pdf

STUDY AREA

EAST ELIZABETH STREET

229-1

229-2

229-3

229-4

17

18

19

20

S 82° 38'35" E 80.47'

S 82° 38'35" E 80.60'

S 82° 38'35" E 80.86'

S 82° 38'35" E 81.02'

54.38' S 08° 03'03" W

S 07° 21'25" W 20.00'

S 07° 21'21" W 40.00'

S 07° 21' W 25.00'

S 08° 03'03" W

VALUE MART, INC., a NORTH CAROLINA CORPORATION

NORTH WATER STREET

LEGEND

- PROPOSED RIGHT-OF-WAY LOCATION
- STUDY AREA
- SOIL BORING
- SOIL BORING/TEMPORARY WELL

0 20 40

SCALE IN FEET

Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

NOTE:

1) SOIL SAMPLES FOR FECAL COLIFORM COLLECTED AT BORING LOCATIONS 601-1 & 601-3.

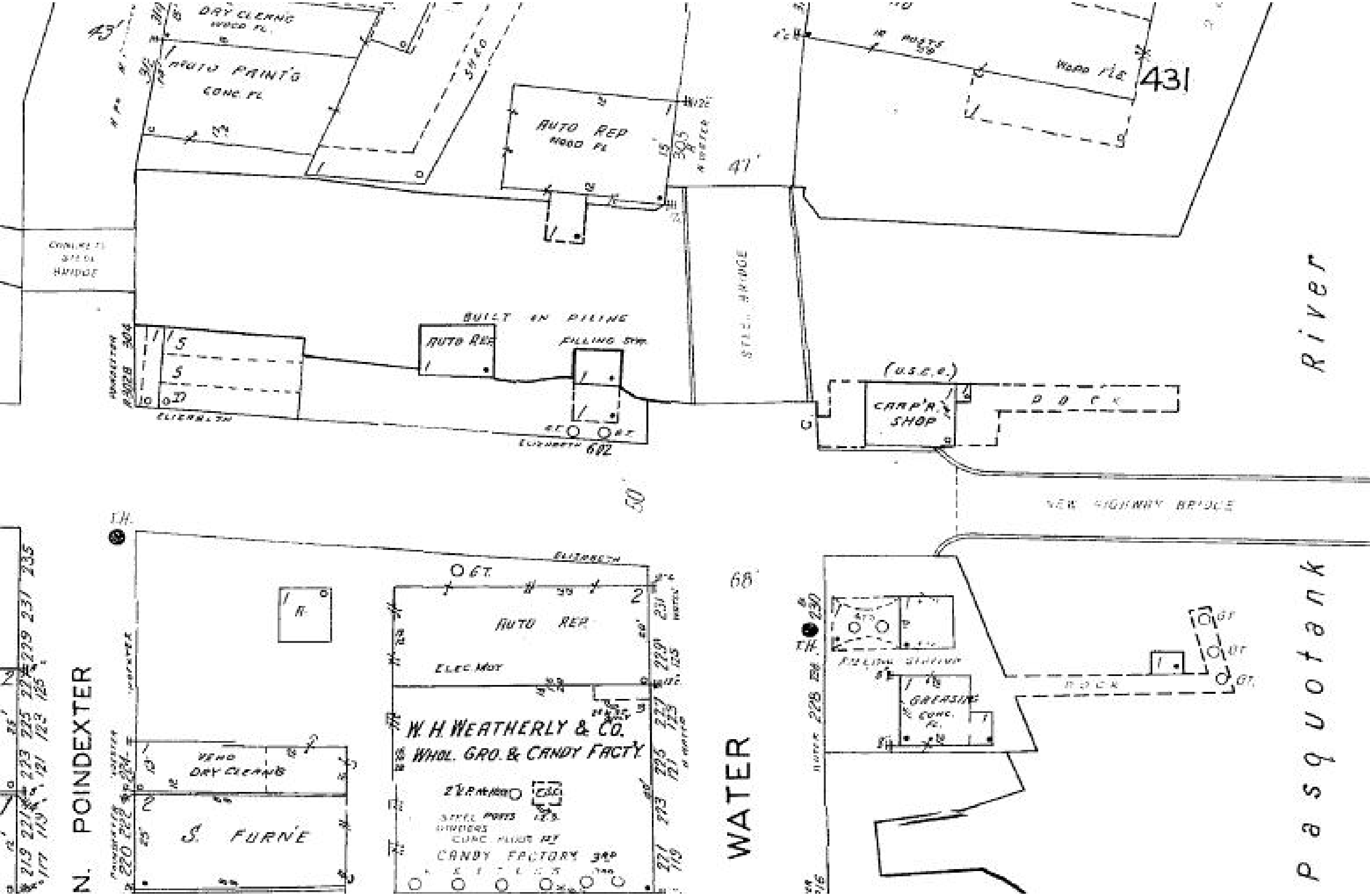
VALUE MART, INC. PROPERTY
229 NORTH WATER STREET
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1

SOIL AND GROUNDWATER SAMPLE LOCATION MAP

FIGURE: 3

APPENDIX A

1948 SANBORN MAP


431
DRY CLEAN'G WOOD FL.
AUTO PAINT'G CONC. FL.
SHED
AUTO REP WOOD FL.
CONCRETE STEEL BRIDGE
BUILT ON PILING
AUTO REP
FILLING STA.
STEEL BRIDGE
(U.S.E.D.)
CARP'R SHOP
DOCK
NEW HIGHWAY BRIDGE
ELIZABETH
602
AUTO REP
ELEC. MOT.
W. H. WEATHERLY & CO.
WHOL. GRO. & CANDY FACT'Y
STEEL POSTS
GIRDERS
CONC. FLOOR 1ST
CANDY FACTORY 3RD
VEHO
DRY CLEAN'G
S. FURN'E
FILLING STATION
GREASING CONC. FL.
DOCK
N. POINDEXTER
WATER
River
Pasquotank

APPENDIX B

PHOTOGRAPHS

Photograph 1 – View of Value Mart, Inc. property, looking southeast from East Elizabeth Street.

Photograph 2 – View of Value Mart, Inc. property, look east along the former storefront.

APPENDIX C

GEOPHYSICAL REPORT

Pyramid Project # 2010159

GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

229 NORTH WATER STREET SITE
Elizabeth City, North Carolina

August 18, 2010

Report prepared for: Jody L. Overmyer, P.E.
Solutions-IES
1101 Newell Road
Raleigh, North Carolina 27607

Prepared by: _____
Mark Denil, PG

Reviewed by: _____
Douglas Canavello, PG

PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
P.O. Box 16265
GREENSBORO, NC 27416-0265
(336) 335-3174

Solutions-IES
GEOPHYSICAL INVESTIGATION REPORT
229 NORTH WATER STREET SITE
Elizabeth City, North Carolina

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FIGURES

1.0 INTRODUCTION

Pyramid Environmental conducted geophysical investigations for Solutions-IES across the proposed Right-of-Way (ROW) area of the 229 North Water Street site (Value Mart Inc. property) located at the intersection of East Elizabeth Street and North Water Street in Elizabeth City, North Carolina. The property consists of an occupied warehouse/manufacturing building with a gravel-covered parking area located along the north side of the building. The proposed ROW area (geophysical survey area) was limited to the parking area and a short segment of the concrete sidewalk that runs along North Water Street.

Conducted on July 7 and 8, 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 229 North Water 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 120 feet and 65 feet, respectively. Photographs of the geophysical equipment used in this investigation and the geophysical survey area at the 229 North Water 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 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 8, 2010 across a significant portion of the site 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 **Figure 3**. 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, high-amplitude EM61 metal detection anomalies (contours shaded in red) intersecting grid coordinates X=180 Y=95 and X=237 Y=80 are probably in response to buried utility lines that run along the edge of East Elizabeth Street and North Water Street. GPR data suggest the linear, EM61 anomalies intersecting grid coordinates X=140 Y=80, X=202 Y=85, X=210 Y=80, and X=217 Y=80 are probably in response to buried, utility lines or conduits. GPR data suggest the EM61 differential anomalies intersecting grid coordinates X=230 Y=23, X=230 Y=40 and X=235 Y=52 are in response to the building, utility line-related equipment and/or buried lines.

GPR data suggest the EM61 differential anomalies intersecting grid coordinates X=157 Y=60, X=205 Y=60 and X=227 Y=65 are probably in response to parked vehicles, building and other known surface objects. The geophysical investigation suggests that the proposed ROW area (survey area) at the 229 North Water Street site does not contain buried metallic UST.

4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the 229 North Water Street site (Value Mart Inc. property) 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.

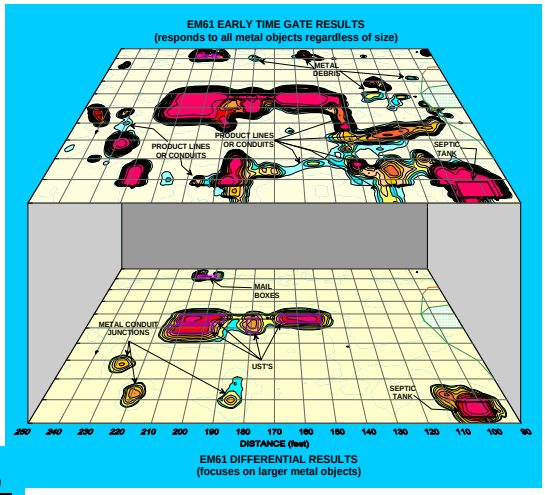
- The linear, high-amplitude EM61 metal detection anomalies (contours shaded in red) intersecting grid coordinates X=140 Y=80, X=180 Y=95, X=202 Y=85, X=210 Y=80, X=217 Y=80, and X=237 Y=80 are probably in response to buried utility lines or conduits.

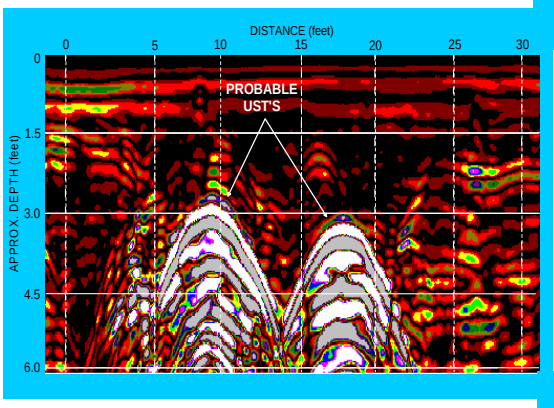
- GPR data suggest the remaining EM61 differential anomalies are probably in response to parked vehicles, building and other known surface objects.

- The geophysical investigation suggests that the proposed ROW area (survey area) at the 229 North Water Street site does not contain buried metallic UST.

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 proposed ROW area does not contain unknown, metallic USTs, but that none were detected.





FIGURES

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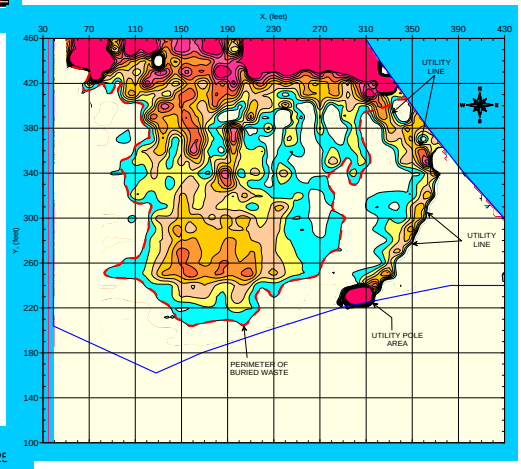
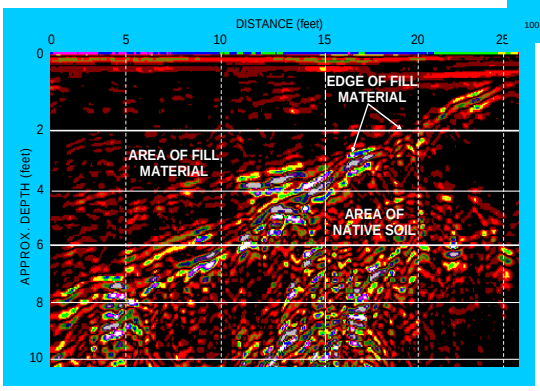
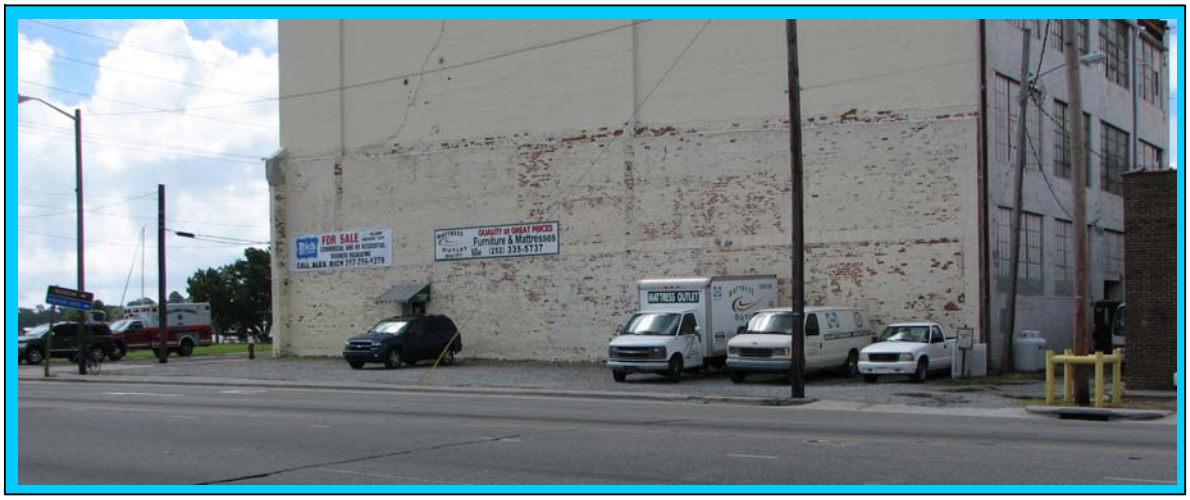




The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across the 229 North Water Street site (Value Mart, Inc. property) on July 7, 2010.

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 229 North Water Street site on July 8, 2010.



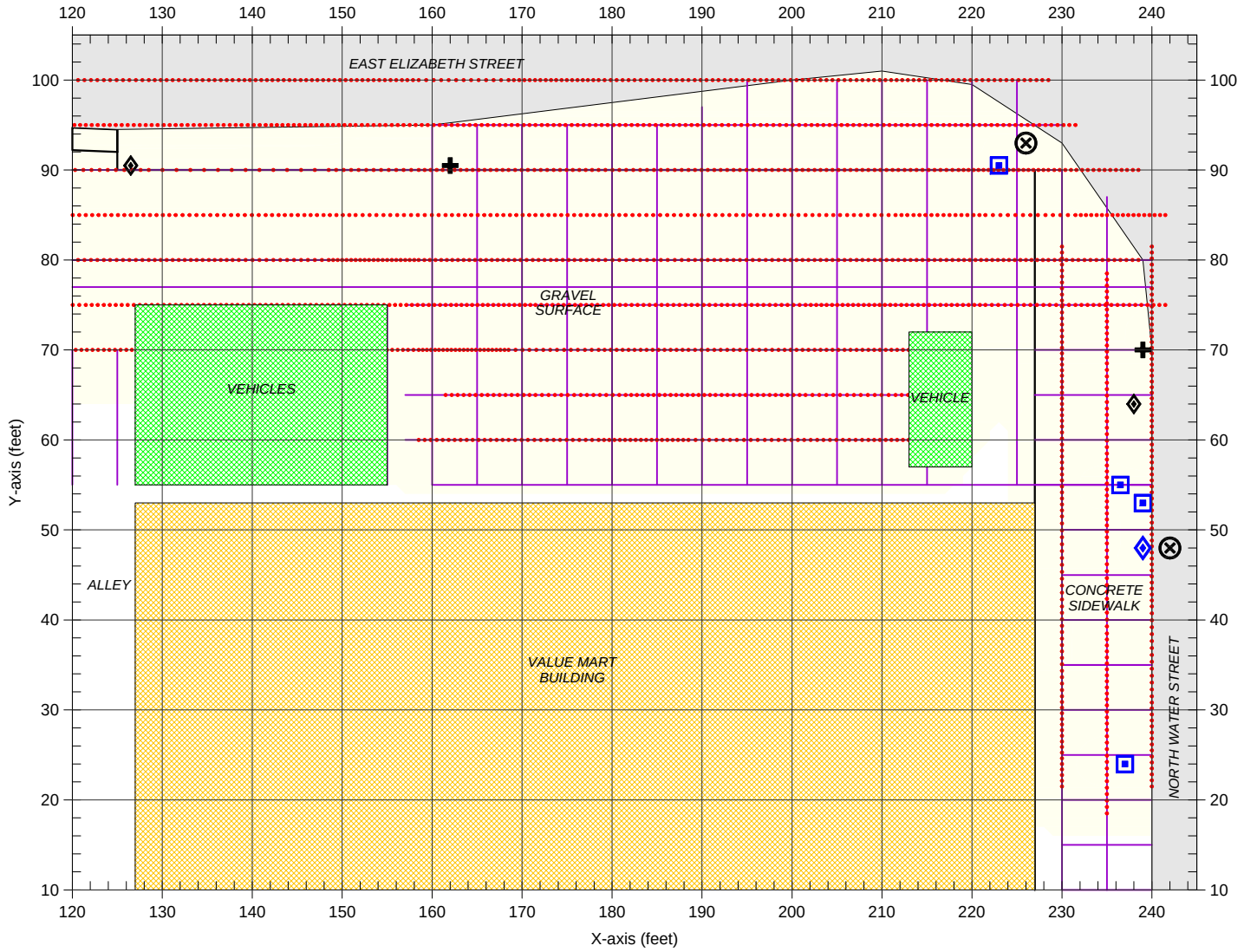
The photograph shows the 229 North Water Street site (Value Mart, Inc. property) located at the intersection of East Elizabeth Street and North Water Street in Elizabeth City, North Carolina. The photograph is viewed in a southeasterly direction.

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.

CLIENT	SOLUTIONS-IES	DATE	08/16/10	DRWN	MJD
SITE	229 NORTH WATER STREET SITE	LAY		CHKD	
CITY	ELIZABETH CITY	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	JNO	2010-159	FIGURE	

GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS

FIGURE 1



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- CONCRETE SUPPORT ABUTMENT
- CONCRETE PARKING CURB
- WATER METER COVER
- GUY WIRE
- ROAD SIGN
- STORM SEWER GRATE
- UTILITY POLE
- VEHICLE
- MANHOLE COVER
- FIRE HYDRANT
- EM61 METAL DETECTION SURVEY LINE
- GPR SURVEY LINE

N
W
E
S
APPROXIMATE NORTH

Note: The map shows the geophysical survey area at the 229 North Water Street site (Parcel 17). 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.

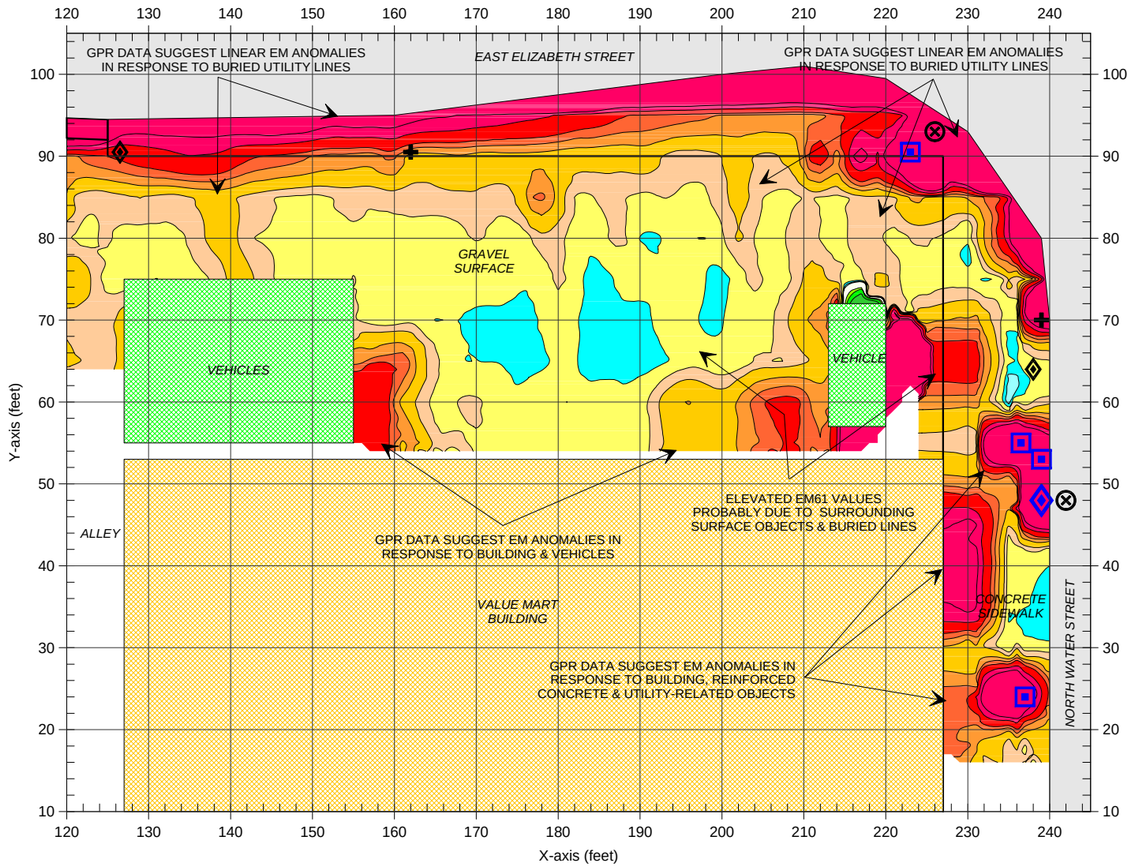
The solid purple lines represent the GPR survey lines. The GPR investigation was conducted on July 8, 2010 using a Geophysical Survey Systems SIR-2000 unit with a 400 MHz antenna.

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.

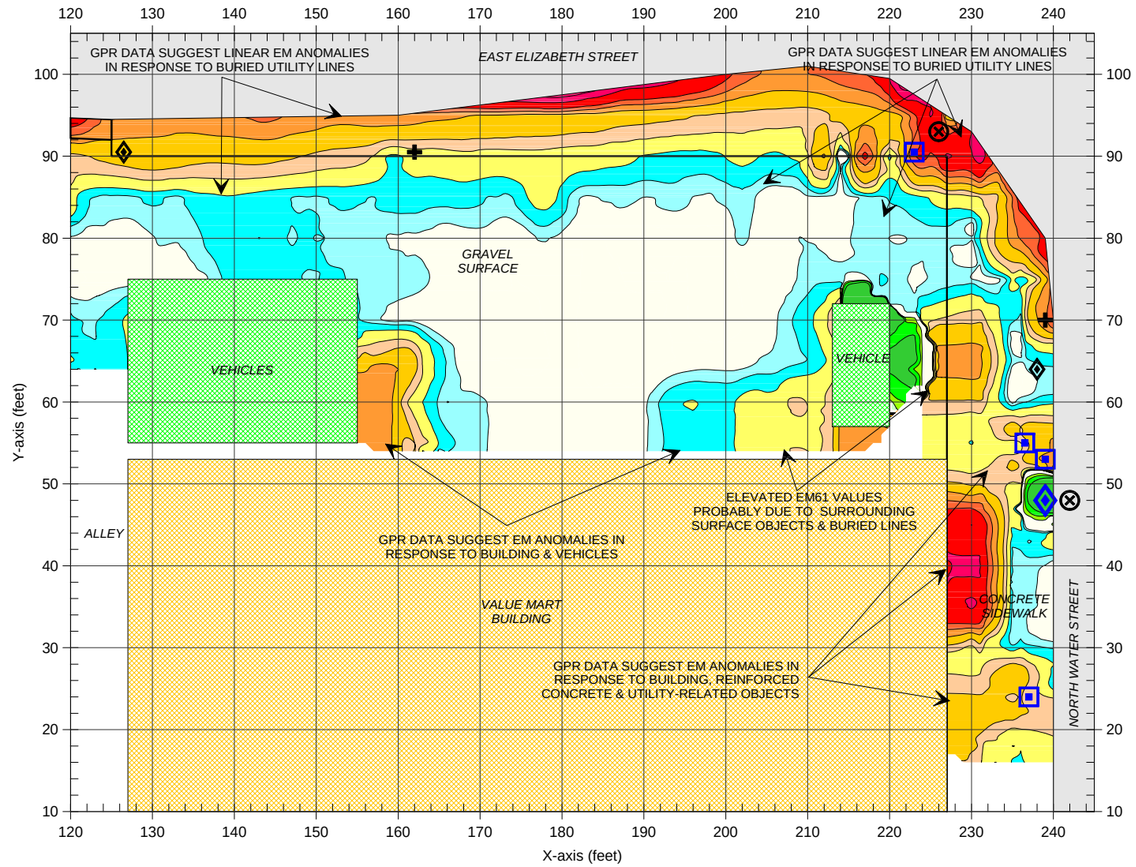
CLIENT	SOLUTIONS-IES	DATE	08/16/10	DRWN	MJD
SITE	229 NORTH WATER STREET SITE	LAY		CHKD	
CITY	ELIZABETH CITY	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	JNO	2010-159	FIGURE	

GEOPHYSICAL SURVEY LINE LOCATIONS

FIGURE 2



BOTTOM COIL RESULTS



DIFFERENTIAL RESULTS

LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- CONCRETE SUPPORT ABUTMENT
- CONCRETE PARKING CURB
- WATER METER COVER
- GUY WIRE
- ROAD SIGN
- STORM SEWER GRATE
- UTILITY POLE
- VEHICLE
- MANHOLE COVER
- FIRE HYDRANT

N E S W

APPROXIMATE NORTH

EM61 METAL DETECTION RESPONSE (MILLIVOLTS)

1000 750 500 400 300 200 150 100 75 60 50 -90 -100 -200 -400 -5000

The contour plot shows the bottom coil (most sensitive) and differential results of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. 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 July 7, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on July 8, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggests that the surveyed portion of the property does not contain metallic USTs.

EM61 METAL DETECTION RESULTS

FIGURE 3

GRAPHIC SCALE IN FEET

DRWN	CHKD	FIGURE
MJD		
DATE	LAY	DWG	J.-NO.
08/18/10			2010-159

CLIENT	SITE	CITY	STATE	TITLE
SOLUTIONS-IES	229 NORTH WATER STREET SITE	ELIZABETH CITY	NORTH CAROLINA	GEOPHYSICAL RESULTS

PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.

APPENDIX D

GPS COORDINATES

APPENDIX D
Boring Locations GPS Coordinates
Value Mart, Inc. Property
229 East Elizabeth Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438

Boring Identification	Latitude	Longitude
229-1	36.301341	76.219005
229-2	36.301254	76.218786
229-3	36.301206	76.218610
229-4	36.301145	76.218600

APPENDIX E

BORING LOGS

Log of Soil Boring: 229-1

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: **229 N. Water Street**
Date Started: **8/2/10**
Date Completed: **8/2/10**
Drilling Method: **Direct push**
Initial Water Level: **~4' bgs**
Final Water Level:
Sample Method: **Macrocore**
Date & Time (i): **8/3/10 0745**
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.
	0.00		Ground Surface							
0		SW	asphalt surface, gray sandy fill with gravel				0.0		229-1-0-2	
2		SW	tan sand, moist		20		0.0		229-1-2-4	
4			End of Boring							
6										
8										

Notes:
Field screen in conducted with FID. Results in parts per million (ppm).

Depth in feet.

Well Construction Details

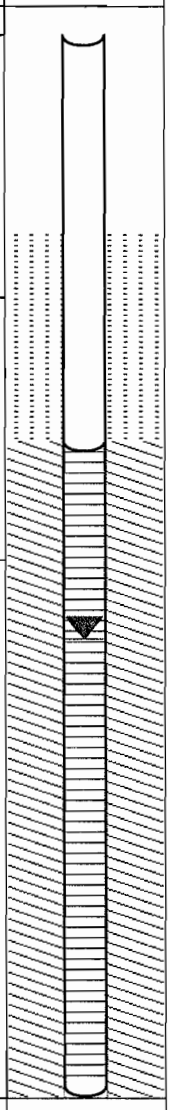
Drilling Contractor: **Solutions-IES, Inc.**
Size of Borehole: **3.75"** TOC Elevation: **NA** Screen Interval:
Completion: Casing Diameter: Screen Material:
Total Depth: Casing Material: Slot Size:

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

Log of Soil Boring: 229-2

Project Name: **Elizabeth City PSAs**
Solutions-IES Project Number: **3946.10A3.NDOT**
Client: **NCDOT**
Northing: **940034.21**
Easting: **2819641.57**
Project Location: **Elizabeth City** State: **NC**
County: **Pasquotank**
City: **Elizabeth City**
Site or Area: **229 N. Water Street**
Date Started: **8/3/10**
Date Completed: **8/3/10**
Drilling Method: **Direct push**
Initial Water Level: **~4' bgs**
Final Water Level: **4.6' bgs**
Sample Method: **Macrocore**
Date & Time (i): **8/3/10 0745**
Date & Time (f): **8/4/10 0750**
Logged by: **KD** Checked by:
WBS #: **35742.1.1**
State Project #: **U-4438**

Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
	0.00		Ground Surface							
0		SW	tan sand, fill, with gravel				0.0		229-2-0-2	
2		SW	sand, fill, with brick pieces and seashell fragments		20		0.0		229-2-2-4	
4										
6										
8										



Notes:
Field screen in conducted with FID. Results in parts per million (ppm).

Depth in feet.

Well Construction Details

Drilling Contractor: **Solutions-IES, Inc.**
Size of Borehole: **3.75"** TOC Elevation: **NA**
Completion: **Temporary** Casing Diameter: **1"**
Total Depth: **8.1'** Casing Material: **PVC**
Screen Interval: **8.1' - 3.1' 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: 229-3

Project Name: **Elizabeth City PSAs**
Solutions-IES Project Number: **3946.10A3.NDOT**
Client: **NCDOT**
Northing: **940033.22**
Easting: **2819554.33**
Project Location: **Elizabeth City** State: **NC**
County: **Pasquotank**
City: **Elizabeth City**
Site or Area: **229 N. Water Street**
Date Started: **8/3/10**
Date Completed: **8/3/10**
Drilling Method: **Direct push**
Initial Water Level: **~4' bgs**
Final Water Level:
Sample Method: **Macrocore**
Date & Time (i): **8/3/10 0745**
Date & Time (f):
Logged by: **KD** Checked by:
WBS #: **35742.1.1**
State Project #: **U-4438**

Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
	0.00		Ground Surface							
0		SW	tan sand, fill, with gravel				0.0		229-3-0-2	
2		SW	tan sand, fill, with brick pieces and gravel		20		0.0		229-3-2-4	
4										
6										
8										

Notes:
Field screen in conducted with FID. Results in parts per million (ppm).

Depth in feet.

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:

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

Log of Soil Boring: 229-4

Project Name: **Elizabeth City PSAs**
Solutions-IES Project Number: **3946.10A3.NDOT**
Client: **NCDOT**
Northing: **940011.1**
Easting: **2819557.9**
Project Location: **Elizabeth City** State: **NC**
County: **Pasquotank**
City: **Elizabeth City**
Site or Area: **229 N. Water Street**
Date Started: **8/3/10**
Date Completed: **8/3/10**
Drilling Method: **Direct push**
Initial Water Level: **~4' bgs**
Final Water Level:
Sample Method: **Macrocore**
Date & Time (i): **8/2/10 1733**
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	tan sand, fill				0.0		229-4-0-2	
2		SW	tan sand, fill, with brick peices		25		0.0		229-4-2-4	
4			End of Boring							
6										
8										

Notes:
Field screen in conducted with FID. Results in parts per million (ppm).

Depth in feet.

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:

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

APPENDIX F

LABORATORY ANALYTICAL REPORT

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

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

Case Narrative

08/20/2010

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No.: WBS# 35742.1.1
Lab Submittal Date: 08/04/2010
Prism Work Order: 0080136

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:

BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

08/20/2010

Prism Work Order: 0080136

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
229-1-2-4	0080136-01	Solid	08/03/10	08/04/10
229-2-2-4	0080136-02	Solid	08/03/10	08/04/10
229-3-2-4	0080136-03	Solid	08/03/10	08/04/10
229-4-2-4	0080136-04	Solid	08/03/10	08/04/10

Samples received in good condition at 3.8 degrees C unless otherwise noted.

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

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 229-1-2-4
Prism Sample ID: 0080136-01
Prism Work Order: 0080136
Time Collected: 08/03/10 10:35
Time Submitted: 08/04/10 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	8/12/10 16:30	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*71 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.4	0.83	50	*8015C	8/10/10 0:10	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*69 %*		*55-129*	
General Chemistry Parameters									
% Solids	**76.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/9/10 14:00**	**JAB**	**P0H0208**

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 229-2-2-4
Prism Sample ID: 0080136-02
Prism Work Order: 0080136
Time Collected: 08/03/10 10:37
Time Submitted: 08/04/10 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	7.8	1.3	1	*8015C	8/12/10 17:42	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*75 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.0	0.66	50	*8015C	8/10/10 0:44	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*89 %*		*55-129*	
General Chemistry Parameters									
% Solids	**89.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/9/10 14:00**	**JAB**	**P0H0208**

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 229-3-2-4
Prism Sample ID: 0080136-03
Prism Work Order: 0080136
Time Collected: 08/03/10 10:40
Time Submitted: 08/04/10 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	7.9	1.3	1	*8015C	8/12/10 17:06	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*72 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	0.69	50	*8015C	8/10/10 1:17	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*90 %*		*55-129*	
General Chemistry Parameters									
% Solids	**88.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/9/10 14:00**	**JAB**	**P0H0208**

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 229-4-2-4
Prism Sample ID: 0080136-04
Prism Work Order: 0080136
Time Collected: 08/03/10 10:42
Time Submitted: 08/04/10 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.0	1.5	1	*8015C	8/12/10 18:54	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*65 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.3	0.81	50	*8015C	8/10/10 1:50	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*59 %*		*55-129*	
General Chemistry Parameters									
% Solids	**77.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/9/10 14:00**	**JAB**	**P0H0208**

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080136
Time Submitted: 8/4/10 4:10:00PM

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*			

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

Project: NCDOT Elizabeth City PSA's - 229 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080136
Time Submitted: 8/4/10 4:10:00PM

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: o-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: o-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: o-Terphenyl	*1.76*		*mg/kg wet*	*1.60*		*110*	*49-124*			

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0080136-01	P0H0245	25.03 g	1 mL	08/10/10
0080136-02	P0H0245	25.07 g	1 mL	08/10/10
0080136-03	P0H0245	25 g	1 mL	08/10/10
0080136-04	P0H0245	25.13 g	1 mL	08/10/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0080136-01	P0H0204	5.16 g	5 mL	08/09/10
0080136-02	P0H0204	5.56 g	5 mL	08/09/10
0080136-03	P0H0204	5.32 g	5 mL	08/09/10
0080136-04	P0H0204	5.16 g	5 mL	08/09/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0080136-01	P0H0208	30 g	30 mL	08/09/10
0080136-02	P0H0208	30 g	30 mL	08/09/10
0080136-03	P0H0208	30 g	30 mL	08/09/10
0080136-04	P0H0208	30 g	30 mL	08/09/10

CHAIN OF CUSTODY RECORD

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

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

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

Project Name: NCDOT Elizabeth City - 229 Water 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
Address: _____

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@solutions-ies.com
EDD Type: PDF ✓ Excel ___ Other _____
Site Location Name: NCDOT Elizabeth City
Site Location Physical Address: 229 Water Street

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)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival? 3B	✓		
Received ON WET ICE? Temp	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ✓
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ✓
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH GRO-DRO	REMARKS	PRISM LAB ID NO.
229-1-2-4	8/3/10	1035	S	VOA, G	4	40mL, 120z		X		01
229-2-2-4	8/3/10	1037	S	VOA, G	4	↓		X		02
229-3-2-4	8/3/10	1040	S	VOA, G	4			X		03
229-4-2-4	8/3/10	1042	S	VOA, G	4	↓		X		04

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Kathryn Dail | Sampled By (Print Name): Kathryn Dail | Affiliation: Solutions-IES

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.

	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature) Kathryn Dail	Alex Lassiter	080310	1055
Relinquished By: (Signature) Alex Lassiter	Received By: (Signature)	080310	1400
Relinquished By: (Signature)	Received For Prism Laboratories By:	8-4-10	1250

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other _____
COC Group No. 00800316

Additional Comments: Relinquished by David Morin 8-4-10 1610 Received by: QNUID ILD

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

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

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

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

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

Case Narrative

08/24/2010

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Lab Submittal Date: 08/05/2010
Prism Work Order: 0080167

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.
Aa	Sample analyzed out of hold.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
MI	Matrix spike outside of the control limits. Matrix interference suspected.
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.

Sample Receipt Summary

08/24/2010

Prism Work Order: 0080167

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
222-1-2-4	0080167-01	Solid	08/04/10	08/05/10
222-2-2-4	0080167-02	Solid	08/04/10	08/05/10
222-3-0-2	0080167-03	Solid	08/04/10	08/05/10
222-3	0080167-04	Water	08/04/10	08/05/10
601-1	0080167-05	Water	08/04/10	08/05/10
229-2	0080167-06	Water	08/04/10	08/05/10
S07-4-1-4	0080167-07	Solid	08/04/10	08/05/10

Samples received in good condition at 3.1 degrees C unless otherwise noted.

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

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 222-1-2-4
Prism Sample ID: 0080167-01
Prism Work Order: 0080167
Time Collected: 08/04/10 08:20
Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**22**	**mg/kg dry**	**8.8**	**1.4**	**1**	***8015C**	**8/16/10 17:55**	**JMV**	**P0H0282**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*81 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**19**	**mg/kg dry**	**4.9**	**0.64**	**50**	***8015C**	**8/10/10 17:25**	**HPE**	**P0H0224**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*94 %*		*55-129*	
General Chemistry Parameters									
% Solids	**78.9**	**% 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 - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 222-2-2-4
Prism Sample ID: 0080167-02
Prism Work Order: 0080167
Time Collected: 08/04/10 08:30
Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	8/13/10 18:15	JMV	P0H0282
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*98 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.3	0.82	50	*8015C	8/10/10 17:59	HPE	P0H0224
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*94 %*		*55-129*	
General Chemistry Parameters									
% Solids	**75.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/11/10 14:45**	**JAB**	**P0H0272**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: 222-3-0-2
Prism Sample ID: 0080167-03
Prism Work Order: 0080167
Time Collected: 08/04/10 08:35
Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.1	1.5	1	*8015C	8/13/10 18:50	JMV	P0H0282
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*102 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.1	0.92	50	*8015C	8/10/10 18:33	HPE	P0H0224
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*93 %*		*55-129*	
General Chemistry Parameters									
% Solids	**76.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/11/10 14:45**	**JAB**	**P0H0272**

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

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 222-3
Prism Sample ID: 0080167-04
Prism Work Order: 0080167
Time Collected: 08/04/10 09:00
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 23:50	CGP	P0H0259
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/12/10 23:50	CGP	P0H0259
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/12/10 23:50	CGP	P0H0259
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:50	CGP	P0H0259
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:50	CGP	P0H0259
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:50	CGP	P0H0259
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/12/10 23:50	CGP	P0H0259
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:50	CGP	P0H0259
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:50	CGP	P0H0259
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/12/10 23:50	CGP	P0H0259
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:50	CGP	P0H0259
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:50	CGP	P0H0259
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/12/10 23:50	CGP	P0H0259
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/12/10 23:50	CGP	P0H0259
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:50	CGP	P0H0259
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/12/10 23:50	CGP	P0H0259
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/12/10 23:50	CGP	P0H0259
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/12/10 23:50	CGP	P0H0259
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/12/10 23:50	CGP	P0H0259
4-Nitrophenol	BRL	ug/L	50	2.6	1	8270D	8/12/10 23:50	CGP	P0H0259
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:50	CGP	P0H0259
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Aniline	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/12/10 23:50	CGP	P0H0259
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/12/10 23:50	CGP	P0H0259
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:50	CGP	P0H0259
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 222-3
Prism Sample ID: 0080167-04
Prism Work Order: 0080167
Time Collected: 08/04/10 09:00
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 23:50	CGP	P0H0259
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/12/10 23:50	CGP	P0H0259
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:50	CGP	P0H0259
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:50	CGP	P0H0259
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:50	CGP	P0H0259
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/12/10 23:50	CGP	P0H0259
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:50	CGP	P0H0259
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/12/10 23:50	CGP	P0H0259
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/12/10 23:50	CGP	P0H0259
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:50	CGP	P0H0259
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/12/10 23:50	CGP	P0H0259
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/12/10 23:50	CGP	P0H0259
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/12/10 23:50	CGP	P0H0259
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:50	CGP	P0H0259
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/12/10 23:50	CGP	P0H0259
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Phenol	BRL	ug/L	10	2.2	1	8270D	8/12/10 23:50	CGP	P0H0259
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/12/10 23:50	CGP	P0H0259

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*65 %*	*26-139*
2-Fluorobiphenyl	*57 %*	*41-112*
2-Fluorophenol	*24 %*	*10-48*
Nitrobenzene-d5	*53 %*	*34-102*
Phenol-d5	*12 %*	*10-34*
Terphenyl-d14	*76 %*	*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 23:31	KLA	P0H0263
1,1,1-Trichloroethane	BRL	ug/L	1.0	0.063	1	8260B	8/11/10 23:31	KLA	P0H0263
1,1,2,2-Tetrachloroethane	BRL	ug/L	1.0	0.071	1	8260B	8/11/10 23:31	KLA	P0H0263
1,1,2-Trichloroethane	BRL	ug/L	1.0	0.17	1	8260B	8/11/10 23:31	KLA	P0H0263
1,1-Dichloroethane	BRL	ug/L	1.0	0.096	1	8260B	8/11/10 23:31	KLA	P0H0263
1,1-Dichloroethylene	BRL	ug/L	1.0	0.078	1	8260B	8/11/10 23:31	KLA	P0H0263
1,1-Dichloropropylene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 23:31	KLA	P0H0263

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 222-3
Prism Sample ID: 0080167-04
Prism Work Order: 0080167
Time Collected: 08/04/10 09:00
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 23:31	KLA	P0H0263
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2-Dibromoethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2-Dichlorobenzene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2-Dichloroethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 23:31	KLA	P0H0263
1,2-Dichloropropane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 23:31	KLA	P0H0263
1,3,5-Trimethylbenzene	BRL	ug/L	1.0	0.057	1	8260B	8/11/10 23:31	KLA	P0H0263
1,3-Dichlorobenzene	BRL	ug/L	1.0	0.074	1	8260B	8/11/10 23:31	KLA	P0H0263
1,3-Dichloropropane	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 23:31	KLA	P0H0263
1,4-Dichlorobenzene	BRL	ug/L	1.0	0.068	1	8260B	8/11/10 23:31	KLA	P0H0263
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 23:31	KLA	P0H0263
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	8/11/10 23:31	KLA	P0H0263
2-Chlorotoluene	BRL	ug/L	1.0	0.038	1	8260B	8/11/10 23:31	KLA	P0H0263
4-Chlorotoluene	BRL	ug/L	1.0	0.053	1	8260B	8/11/10 23:31	KLA	P0H0263
4-Isopropyltoluene	BRL	ug/L	1.0	0.065	1	8260B	8/11/10 23:31	KLA	P0H0263
Acetone	BRL	ug/L	10	0.62	1	8260B	8/11/10 23:31	KLA	P0H0263
Acrolein	BRL	ug/L	100	1.1	1	8260B	8/11/10 23:31	KLA	P0H0263
Acrylonitrile	BRL	ug/L	100	0.86	1	8260B	8/11/10 23:31	KLA	P0H0263
Benzene	BRL	ug/L	1.0	0.072	1	8260B	8/11/10 23:31	KLA	P0H0263
Bromobenzene	BRL	ug/L	1.0	0.064	1	8260B	8/11/10 23:31	KLA	P0H0263
Bromochloromethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 23:31	KLA	P0H0263
Bromodichloromethane	BRL	ug/L	1.0	0.062	1	8260B	8/11/10 23:31	KLA	P0H0263
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/11/10 23:31	KLA	P0H0263
Bromomethane	BRL	ug/L	3.0	0.47	1	8260B	8/11/10 23:31	KLA	P0H0263
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/11/10 23:31	KLA	P0H0263
Carbon Tetrachloride	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 23:31	KLA	P0H0263
Chlorobenzene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 23:31	KLA	P0H0263
Chloroethane	BRL	ug/L	5.0	0.13	1	8260B	8/11/10 23:31	KLA	P0H0263
Chloroform	BRL	ug/L	1.0	0.089	1	8260B	8/11/10 23:31	KLA	P0H0263
Chloromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 23:31	KLA	P0H0263
cis-1,2-Dichloroethylene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 23:31	KLA	P0H0263
cis-1,3-Dichloropropylene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 23:31	KLA	P0H0263
Dibromochloromethane	BRL	ug/L	1.0	0.30	1	8260B	8/11/10 23:31	KLA	P0H0263
Dibromomethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 23:31	KLA	P0H0263
Dichlorodifluoromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 23:31	KLA	P0H0263
Ethylbenzene	BRL	ug/L	1.0	0.067	1	8260B	8/11/10 23:31	KLA	P0H0263
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/11/10 23:31	KLA	P0H0263
Isopropyl Ether	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 23:31	KLA	P0H0263
Isopropylbenzene (Cumene)	BRL	ug/L	1.0	0.072	1	8260B	8/11/10 23:31	KLA	P0H0263
m,p-Xylenes	BRL	ug/L	2.0	0.081	1	8260B	8/11/10 23:31	KLA	P0H0263
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/11/10 23:31	KLA	P0H0263
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/11/10 23:31	KLA	P0H0263
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/11/10 23:31	KLA	P0H0263

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 222-3
Prism Sample ID: 0080167-04
Prism Work Order: 0080167
Time Collected: 08/04/10 09:00
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 23:31	KLA	P0H0263
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.070	1	8260B	8/11/10 23:31	KLA	P0H0263
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	8/11/10 23:31	KLA	P0H0263
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 23:31	KLA	P0H0263
n-Propylbenzene	BRL	ug/L	1.0	0.060	1	8260B	8/11/10 23:31	KLA	P0H0263
o-Xylene	BRL	ug/L	1.0	0.046	1	8260B	8/11/10 23:31	KLA	P0H0263
sec-Butylbenzene	BRL	ug/L	1.0	0.087	1	8260B	8/11/10 23:31	KLA	P0H0263
Styrene	BRL	ug/L	1.0	0.047	1	8260B	8/11/10 23:31	KLA	P0H0263
tert-Butylbenzene	BRL	ug/L	1.0	0.080	1	8260B	8/11/10 23:31	KLA	P0H0263
Tetrachloroethylene	BRL	ug/L	1.0	0.069	1	8260B	8/11/10 23:31	KLA	P0H0263
Toluene	BRL	ug/L	1.0	0.042	1	8260B	8/11/10 23:31	KLA	P0H0263
trans-1,2-Dichloroethylene	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 23:31	KLA	P0H0263
trans-1,3-Dichloropropylene	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 23:31	KLA	P0H0263
Trichloroethylene	BRL	ug/L	2.0	0.054	1	8260B	8/11/10 23:31	KLA	P0H0263
Trichlorofluoromethane	BRL	ug/L	2.0	0.088	1	8260B	8/11/10 23:31	KLA	P0H0263
Vinyl acetate	BRL	ug/L	20	0.10	1	8260B	8/11/10 23:31	KLA	P0H0263
Vinyl chloride	BRL	ug/L	2.0	0.16	1	8260B	8/11/10 23:31	KLA	P0H0263

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*111 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 601-1
Prism Sample ID: 0080167-05
Prism Work Order: 0080167
Time Collected: 08/04/10 07:40
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	8/13/10 0:20	CGP	P0H0259
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/13/10 0:20	CGP	P0H0259
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/13/10 0:20	CGP	P0H0259
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:20	CGP	P0H0259
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:20	CGP	P0H0259
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:20	CGP	P0H0259
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/13/10 0:20	CGP	P0H0259
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:20	CGP	P0H0259
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:20	CGP	P0H0259
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/13/10 0:20	CGP	P0H0259
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:20	CGP	P0H0259
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:20	CGP	P0H0259
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/13/10 0:20	CGP	P0H0259
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/13/10 0:20	CGP	P0H0259
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:20	CGP	P0H0259
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/13/10 0:20	CGP	P0H0259
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/13/10 0:20	CGP	P0H0259
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/13/10 0:20	CGP	P0H0259
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/13/10 0:20	CGP	P0H0259
4-Nitrophenol	BRL	ug/L	50	2.6	1	8270D	8/13/10 0:20	CGP	P0H0259
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:20	CGP	P0H0259
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Aniline	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/13/10 0:20	CGP	P0H0259
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:20	CGP	P0H0259
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:20	CGP	P0H0259
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 601-1
Prism Sample ID: 0080167-05
Prism Work Order: 0080167
Time Collected: 08/04/10 07:40
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	8/13/10 0:20	CGP	P0H0259
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/13/10 0:20	CGP	P0H0259
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:20	CGP	P0H0259
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:20	CGP	P0H0259
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:20	CGP	P0H0259
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/13/10 0:20	CGP	P0H0259
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:20	CGP	P0H0259
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:20	CGP	P0H0259
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:20	CGP	P0H0259
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:20	CGP	P0H0259
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:20	CGP	P0H0259
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/13/10 0:20	CGP	P0H0259
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:20	CGP	P0H0259
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:20	CGP	P0H0259
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:20	CGP	P0H0259
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Phenol	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:20	CGP	P0H0259
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:20	CGP	P0H0259

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*26 %*	*26-139*	
2-Fluorobiphenyl	*53 %*	*41-112*	
2-Fluorophenol	*9 %*	*10-48*	*SR*
Nitrobenzene-d5	*50 %*	*34-102*	
Phenol-d5	*10 %*	*10-34*	*SR*
Terphenyl-d14	*68 %*	*31-165*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	1.0	0.15	1	8260B	8/12/10 0:10	KLA	P0H0263
1,1,1-Trichloroethane	BRL	ug/L	1.0	0.063	1	8260B	8/12/10 0:10	KLA	P0H0263
1,1,2,2-Tetrachloroethane	BRL	ug/L	1.0	0.071	1	8260B	8/12/10 0:10	KLA	P0H0263
1,1,2-Trichloroethane	BRL	ug/L	1.0	0.17	1	8260B	8/12/10 0:10	KLA	P0H0263
1,1-Dichloroethane	BRL	ug/L	1.0	0.096	1	8260B	8/12/10 0:10	KLA	P0H0263
1,1-Dichloroethylene	BRL	ug/L	1.0	0.078	1	8260B	8/12/10 0:10	KLA	P0H0263
1,1-Dichloropropylene	BRL	ug/L	1.0	0.061	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/12/10 0:10	KLA	P0H0263

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 601-1
Prism Sample ID: 0080167-05
Prism Work Order: 0080167
Time Collected: 08/04/10 07:40
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	**1.3**	**ug/L**	**1.0**	**0.048**	**1**	**8260B**	**8/12/10 0:10**	**KLA**	**P0H0263**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2-Dibromoethane	BRL	ug/L	1.0	0.14	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2-Dichlorobenzene	BRL	ug/L	1.0	0.076	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2-Dichloroethane	BRL	ug/L	1.0	0.14	1	8260B	8/12/10 0:10	KLA	P0H0263
1,2-Dichloropropane	BRL	ug/L	1.0	0.13	1	8260B	8/12/10 0:10	KLA	P0H0263
1,3,5-Trimethylbenzene	**2.8**	**ug/L**	**1.0**	**0.057**	**1**	**8260B**	**8/12/10 0:10**	**KLA**	**P0H0263**
1,3-Dichlorobenzene	BRL	ug/L	1.0	0.074	1	8260B	8/12/10 0:10	KLA	P0H0263
1,3-Dichloropropane	BRL	ug/L	1.0	0.11	1	8260B	8/12/10 0:10	KLA	P0H0263
1,4-Dichlorobenzene	BRL	ug/L	1.0	0.068	1	8260B	8/12/10 0:10	KLA	P0H0263
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/12/10 0:10	KLA	P0H0263
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	8/12/10 0:10	KLA	P0H0263
2-Chlorotoluene	BRL	ug/L	1.0	0.038	1	8260B	8/12/10 0:10	KLA	P0H0263
4-Chlorotoluene	BRL	ug/L	1.0	0.053	1	8260B	8/12/10 0:10	KLA	P0H0263
4-Isopropyltoluene	BRL	ug/L	1.0	0.065	1	8260B	8/12/10 0:10	KLA	P0H0263
Acetone	BRL	ug/L	10	0.62	1	8260B	8/12/10 0:10	KLA	P0H0263
Acrolein	BRL	ug/L	100	1.1	1	8260B	8/12/10 0:10	KLA	P0H0263
Acrylonitrile	BRL	ug/L	100	0.86	1	8260B	8/12/10 0:10	KLA	P0H0263
Benzene	BRL	ug/L	1.0	0.072	1	8260B	8/12/10 0:10	KLA	P0H0263
Bromobenzene	BRL	ug/L	1.0	0.064	1	8260B	8/12/10 0:10	KLA	P0H0263
Bromochloromethane	BRL	ug/L	1.0	0.13	1	8260B	8/12/10 0:10	KLA	P0H0263
Bromodichloromethane	BRL	ug/L	1.0	0.062	1	8260B	8/12/10 0:10	KLA	P0H0263
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/12/10 0:10	KLA	P0H0263
Bromomethane	BRL	ug/L	3.0	0.47	1	8260B	8/12/10 0:10	KLA	P0H0263
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/12/10 0:10	KLA	P0H0263
Carbon Tetrachloride	BRL	ug/L	2.0	0.12	1	8260B	8/12/10 0:10	KLA	P0H0263
Chlorobenzene	BRL	ug/L	1.0	0.061	1	8260B	8/12/10 0:10	KLA	P0H0263
Chloroethane	BRL	ug/L	5.0	0.13	1	8260B	8/12/10 0:10	KLA	P0H0263
Chloroform	BRL	ug/L	1.0	0.089	1	8260B	8/12/10 0:10	KLA	P0H0263
Chloromethane	BRL	ug/L	2.0	0.11	1	8260B	8/12/10 0:10	KLA	P0H0263
cis-1,2-Dichloroethylene	BRL	ug/L	1.0	0.076	1	8260B	8/12/10 0:10	KLA	P0H0263
cis-1,3-Dichloropropylene	BRL	ug/L	1.0	0.10	1	8260B	8/12/10 0:10	KLA	P0H0263
Dibromochloromethane	BRL	ug/L	1.0	0.30	1	8260B	8/12/10 0:10	KLA	P0H0263
Dibromomethane	BRL	ug/L	1.0	0.13	1	8260B	8/12/10 0:10	KLA	P0H0263
Dichlorodifluoromethane	BRL	ug/L	2.0	0.11	1	8260B	8/12/10 0:10	KLA	P0H0263
Ethylbenzene	BRL	ug/L	1.0	0.067	1	8260B	8/12/10 0:10	KLA	P0H0263
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/12/10 0:10	KLA	P0H0263
Isopropyl Ether	BRL	ug/L	1.0	0.043	1	8260B	8/12/10 0:10	KLA	P0H0263
Isopropylbenzene (Cumene)	BRL	ug/L	1.0	0.072	1	8260B	8/12/10 0:10	KLA	P0H0263
m,p-Xylenes	BRL	ug/L	2.0	0.081	1	8260B	8/12/10 0:10	KLA	P0H0263
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/12/10 0:10	KLA	P0H0263
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/12/10 0:10	KLA	P0H0263
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/12/10 0:10	KLA	P0H0263

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 601-1
Prism Sample ID: 0080167-05
Prism Work Order: 0080167
Time Collected: 08/04/10 07:40
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	8/12/10 0:10	KLA	P0H0263
Methyl-tert-Butyl Ether	**1.3**	**ug/L**	**1.0**	**0.070**	**1**	**8260B**	**8/12/10 0:10**	**KLA**	**P0H0263**
Naphthalene	**0.77 J**	**ug/L**	**1.0**	**0.098**	**1**	**8260B**	**8/12/10 0:10**	**KLA**	**P0H0263**
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	8/12/10 0:10	KLA	P0H0263
n-Propylbenzene	BRL	ug/L	1.0	0.060	1	8260B	8/12/10 0:10	KLA	P0H0263
o-Xylene	**0.62 J**	**ug/L**	**1.0**	**0.046**	**1**	**8260B**	**8/12/10 0:10**	**KLA**	**P0H0263**
sec-Butylbenzene	BRL	ug/L	1.0	0.087	1	8260B	8/12/10 0:10	KLA	P0H0263
Styrene	BRL	ug/L	1.0	0.047	1	8260B	8/12/10 0:10	KLA	P0H0263
tert-Butylbenzene	BRL	ug/L	1.0	0.080	1	8260B	8/12/10 0:10	KLA	P0H0263
Tetrachloroethylene	BRL	ug/L	1.0	0.069	1	8260B	8/12/10 0:10	KLA	P0H0263
Toluene	BRL	ug/L	1.0	0.042	1	8260B	8/12/10 0:10	KLA	P0H0263
trans-1,2-Dichloroethylene	BRL	ug/L	2.0	0.12	1	8260B	8/12/10 0:10	KLA	P0H0263
trans-1,3-Dichloropropylene	BRL	ug/L	1.0	0.043	1	8260B	8/12/10 0:10	KLA	P0H0263
Trichloroethylene	BRL	ug/L	2.0	0.054	1	8260B	8/12/10 0:10	KLA	P0H0263
Trichlorofluoromethane	BRL	ug/L	2.0	0.088	1	8260B	8/12/10 0:10	KLA	P0H0263
Vinyl acetate	BRL	ug/L	20	0.10	1	8260B	8/12/10 0:10	KLA	P0H0263
Vinyl chloride	BRL	ug/L	2.0	0.16	1	8260B	8/12/10 0:10	KLA	P0H0263

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*102 %*	*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 - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 229-2
Prism Sample ID: 0080167-06
Prism Work Order: 0080167
Time Collected: 08/04/10 08:10
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	8/13/10 0:50	CGP	P0H0259
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/13/10 0:50	CGP	P0H0259
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/13/10 0:50	CGP	P0H0259
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:50	CGP	P0H0259
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:50	CGP	P0H0259
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:50	CGP	P0H0259
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/13/10 0:50	CGP	P0H0259
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:50	CGP	P0H0259
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:50	CGP	P0H0259
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/13/10 0:50	CGP	P0H0259
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:50	CGP	P0H0259
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:50	CGP	P0H0259
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/13/10 0:50	CGP	P0H0259
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/13/10 0:50	CGP	P0H0259
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:50	CGP	P0H0259
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/13/10 0:50	CGP	P0H0259
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/13/10 0:50	CGP	P0H0259
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/13/10 0:50	CGP	P0H0259
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/13/10 0:50	CGP	P0H0259
4-Nitrophenol	BRL	ug/L	50	2.6	1	8270D	8/13/10 0:50	CGP	P0H0259
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:50	CGP	P0H0259
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Aniline	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/13/10 0:50	CGP	P0H0259
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/13/10 0:50	CGP	P0H0259
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:50	CGP	P0H0259
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 229-2
Prism Sample ID: 0080167-06
Prism Work Order: 0080167
Time Collected: 08/04/10 08:10
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	8/13/10 0:50	CGP	P0H0259
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/13/10 0:50	CGP	P0H0259
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:50	CGP	P0H0259
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:50	CGP	P0H0259
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:50	CGP	P0H0259
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/13/10 0:50	CGP	P0H0259
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:50	CGP	P0H0259
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/13/10 0:50	CGP	P0H0259
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/13/10 0:50	CGP	P0H0259
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:50	CGP	P0H0259
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/13/10 0:50	CGP	P0H0259
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/13/10 0:50	CGP	P0H0259
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/13/10 0:50	CGP	P0H0259
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:50	CGP	P0H0259
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/13/10 0:50	CGP	P0H0259
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Phenol	BRL	ug/L	10	2.2	1	8270D	8/13/10 0:50	CGP	P0H0259
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/13/10 0:50	CGP	P0H0259

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*66 %*	*26-139*
2-Fluorobiphenyl	*57 %*	*41-112*
2-Fluorophenol	*26 %*	*10-48*
Nitrobenzene-d5	*52 %*	*34-102*
Phenol-d5	*13 %*	*10-34*
Terphenyl-d14	*86 %*	*31-165*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	1.0	0.15	1	8260B	8/12/10 0:58	KLA	P0H0263
1,1,1-Trichloroethane	BRL	ug/L	1.0	0.063	1	8260B	8/12/10 0:58	KLA	P0H0263
1,1,2,2-Tetrachloroethane	BRL	ug/L	1.0	0.071	1	8260B	8/12/10 0:58	KLA	P0H0263
1,1,2-Trichloroethane	BRL	ug/L	1.0	0.17	1	8260B	8/12/10 0:58	KLA	P0H0263
1,1-Dichloroethane	BRL	ug/L	1.0	0.096	1	8260B	8/12/10 0:58	KLA	P0H0263
1,1-Dichloroethylene	BRL	ug/L	1.0	0.078	1	8260B	8/12/10 0:58	KLA	P0H0263
1,1-Dichloropropylene	BRL	ug/L	1.0	0.061	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/12/10 0:58	KLA	P0H0263

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

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 229-2
Prism Sample ID: 0080167-06
Prism Work Order: 0080167
Time Collected: 08/04/10 08:10
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	8/12/10 0:58	KLA	P0H0263
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2-Dibromoethane	BRL	ug/L	1.0	0.14	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2-Dichlorobenzene	BRL	ug/L	1.0	0.076	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2-Dichloroethane	BRL	ug/L	1.0	0.14	1	8260B	8/12/10 0:58	KLA	P0H0263
1,2-Dichloropropane	BRL	ug/L	1.0	0.13	1	8260B	8/12/10 0:58	KLA	P0H0263
1,3,5-Trimethylbenzene	BRL	ug/L	1.0	0.057	1	8260B	8/12/10 0:58	KLA	P0H0263
1,3-Dichlorobenzene	BRL	ug/L	1.0	0.074	1	8260B	8/12/10 0:58	KLA	P0H0263
1,3-Dichloropropane	BRL	ug/L	1.0	0.11	1	8260B	8/12/10 0:58	KLA	P0H0263
1,4-Dichlorobenzene	BRL	ug/L	1.0	0.068	1	8260B	8/12/10 0:58	KLA	P0H0263
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/12/10 0:58	KLA	P0H0263
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	8/12/10 0:58	KLA	P0H0263
2-Chlorotoluene	BRL	ug/L	1.0	0.038	1	8260B	8/12/10 0:58	KLA	P0H0263
4-Chlorotoluene	BRL	ug/L	1.0	0.053	1	8260B	8/12/10 0:58	KLA	P0H0263
4-Isopropyltoluene	BRL	ug/L	1.0	0.065	1	8260B	8/12/10 0:58	KLA	P0H0263
Acetone	BRL	ug/L	10	0.62	1	8260B	8/12/10 0:58	KLA	P0H0263
Acrolein	BRL	ug/L	100	1.1	1	8260B	8/12/10 0:58	KLA	P0H0263
Acrylonitrile	BRL	ug/L	100	0.86	1	8260B	8/12/10 0:58	KLA	P0H0263
Benzene	BRL	ug/L	1.0	0.072	1	8260B	8/12/10 0:58	KLA	P0H0263
Bromobenzene	BRL	ug/L	1.0	0.064	1	8260B	8/12/10 0:58	KLA	P0H0263
Bromochloromethane	BRL	ug/L	1.0	0.13	1	8260B	8/12/10 0:58	KLA	P0H0263
Bromodichloromethane	BRL	ug/L	1.0	0.062	1	8260B	8/12/10 0:58	KLA	P0H0263
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/12/10 0:58	KLA	P0H0263
Bromomethane	BRL	ug/L	3.0	0.47	1	8260B	8/12/10 0:58	KLA	P0H0263
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/12/10 0:58	KLA	P0H0263
Carbon Tetrachloride	BRL	ug/L	2.0	0.12	1	8260B	8/12/10 0:58	KLA	P0H0263
Chlorobenzene	BRL	ug/L	1.0	0.061	1	8260B	8/12/10 0:58	KLA	P0H0263
Chloroethane	BRL	ug/L	5.0	0.13	1	8260B	8/12/10 0:58	KLA	P0H0263
Chloroform	BRL	ug/L	1.0	0.089	1	8260B	8/12/10 0:58	KLA	P0H0263
Chloromethane	BRL	ug/L	2.0	0.11	1	8260B	8/12/10 0:58	KLA	P0H0263
cis-1,2-Dichloroethylene	BRL	ug/L	1.0	0.076	1	8260B	8/12/10 0:58	KLA	P0H0263
cis-1,3-Dichloropropylene	BRL	ug/L	1.0	0.10	1	8260B	8/12/10 0:58	KLA	P0H0263
Dibromochloromethane	BRL	ug/L	1.0	0.30	1	8260B	8/12/10 0:58	KLA	P0H0263
Dibromomethane	BRL	ug/L	1.0	0.13	1	8260B	8/12/10 0:58	KLA	P0H0263
Dichlorodifluoromethane	BRL	ug/L	2.0	0.11	1	8260B	8/12/10 0:58	KLA	P0H0263
Ethylbenzene	BRL	ug/L	1.0	0.067	1	8260B	8/12/10 0:58	KLA	P0H0263
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/12/10 0:58	KLA	P0H0263
Isopropyl Ether	BRL	ug/L	1.0	0.043	1	8260B	8/12/10 0:58	KLA	P0H0263
Isopropylbenzene (Cumene)	BRL	ug/L	1.0	0.072	1	8260B	8/12/10 0:58	KLA	P0H0263
m,p-Xylenes	BRL	ug/L	2.0	0.081	1	8260B	8/12/10 0:58	KLA	P0H0263
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/12/10 0:58	KLA	P0H0263
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/12/10 0:58	KLA	P0H0263
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/12/10 0:58	KLA	P0H0263

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Water

Client Sample ID: 229-2
Prism Sample ID: 0080167-06
Prism Work Order: 0080167
Time Collected: 08/04/10 08:10
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	8/12/10 0:58	KLA	P0H0263
Methyl-tert-Butyl Ether	**0.72 J**	**ug/L**	**1.0**	**0.070**	**1**	**8260B**	**8/12/10 0:58**	**KLA**	**P0H0263**
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	8/12/10 0:58	KLA	P0H0263
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	8/12/10 0:58	KLA	P0H0263
n-Propylbenzene	BRL	ug/L	1.0	0.060	1	8260B	8/12/10 0:58	KLA	P0H0263
o-Xylene	BRL	ug/L	1.0	0.046	1	8260B	8/12/10 0:58	KLA	P0H0263
sec-Butylbenzene	BRL	ug/L	1.0	0.087	1	8260B	8/12/10 0:58	KLA	P0H0263
Styrene	BRL	ug/L	1.0	0.047	1	8260B	8/12/10 0:58	KLA	P0H0263
tert-Butylbenzene	BRL	ug/L	1.0	0.080	1	8260B	8/12/10 0:58	KLA	P0H0263
Tetrachloroethylene	BRL	ug/L	1.0	0.069	1	8260B	8/12/10 0:58	KLA	P0H0263
Toluene	BRL	ug/L	1.0	0.042	1	8260B	8/12/10 0:58	KLA	P0H0263
trans-1,2-Dichloroethylene	BRL	ug/L	2.0	0.12	1	8260B	8/12/10 0:58	KLA	P0H0263
trans-1,3-Dichloropropylene	BRL	ug/L	1.0	0.043	1	8260B	8/12/10 0:58	KLA	P0H0263
Trichloroethylene	BRL	ug/L	2.0	0.054	1	8260B	8/12/10 0:58	KLA	P0H0263
Trichlorofluoromethane	BRL	ug/L	2.0	0.088	1	8260B	8/12/10 0:58	KLA	P0H0263
Vinyl acetate	BRL	ug/L	20	0.10	1	8260B	8/12/10 0:58	KLA	P0H0263
Vinyl chloride	BRL	ug/L	2.0	0.16	1	8260B	8/12/10 0:58	KLA	P0H0263

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*109 %*	*77-123*

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No.: WBS# 35742.1.1
Sample Matrix: Solid

Client Sample ID: S07-4-1-4
Prism Sample ID: 0080167-07
Prism Work Order: 0080167
Time Collected: 08/04/10 09:15
Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**150**	**mg/kg dry**	**12**	**2.0**	**1**	***8015C**	**8/16/10 14:21**	**JMV**	**P0H0313**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*91 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.6	0.86	50	*8015C	8/17/10 12:31	HPE	P0H0354
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*82 %*		*55-129*	
General Chemistry Parameters									
% Solids	**57.4 Aa**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**8/12/10 15:31**	**JAB**	**P0H0309**

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

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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							

Solutions IES (NCDOT Project)
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Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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*			

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Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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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Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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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Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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						
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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Prism Work Order: 0080167
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						
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			

Solutions IES (NCDOT Project)
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Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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	

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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*			

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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 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*			
Batch P0H0354 - 5035										
Blank (P0H0354-BLK1)				Prepared & Analyzed: 08/16/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.00*		*mg/kg wet*	*5.00*		*100*	*55-129*			
LCS (P0H0354-BS1)				Prepared & Analyzed: 08/16/10						
Gasoline Range Organics	44.0	5.0	mg/kg wet	50.0		88	67-116			
Surrogate: a,a,a-Trifluorotoluene	*5.55*		*mg/kg wet*	*5.00*		*111*	*55-129*			
LCS Dup (P0H0354-BSD1)				Prepared & Analyzed: 08/16/10						
Gasoline Range Organics	45.1	5.0	mg/kg wet	50.0		90	67-116	2	200	
Surrogate: a,a,a-Trifluorotoluene	*5.50*		*mg/kg wet*	*5.00*		*110*	*55-129*			

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

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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										
Blank (P0H0282-BLK1)				Prepared: 08/11/10 Analyzed: 08/13/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-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: o-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: o-Terphenyl	*2.75*		*mg/kg wet*	*1.60*		*172*	*49-124*			*SR*
Batch P0H0313 - 3545A										
Blank (P0H0313-BLK1)				Prepared: 08/12/10 Analyzed: 08/14/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.79*		*mg/kg wet*	*1.60*		*112*	*49-124*			
LCS (P0H0313-BS1)				Prepared: 08/12/10 Analyzed: 08/14/10						
Diesel Range Organics	69.3	7.0	mg/kg wet	79.9		87	55-109			
Surrogate: o-Terphenyl	*2.33*		*mg/kg wet*	*1.60*		*146*	*49-124*			*SR*
LCS Dup (P0H0313-BSD1)				Prepared: 08/12/10 Analyzed: 08/14/10						
Diesel Range Organics	73.7	7.0	mg/kg wet	79.9		92	55-109	6	200	
Surrogate: o-Terphenyl	*2.42*		*mg/kg wet*	*1.60*		*152*	*49-124*			*SR*
Matrix Spike (P0H0313-MS1)		**Source: 0080167-07**		Prepared: 08/12/10 Analyzed: 08/16/10						
Diesel Range Organics	655	12	mg/kg dry	139	153	361	50-117			MI
Surrogate: o-Terphenyl	*4.21*		*mg/kg dry*	*2.78*		*151*	*49-124*			*SR*

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

Project: NCDOT Elizabeth City PSA's - 222 Water St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080167
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 P0H0313 - 3545A										
Matrix Spike Dup (P0H0313-MSD1)	**Source: 0080167-07**			Prepared: 08/12/10	Analyzed: 08/16/10					
Diesel Range Organics	216	12	mg/kg dry	139	153	45	50-117	101	24	D, MI
Surrogate: o-Terphenyl	*2.68*		*mg/kg dry*	*2.78*		*96*	*49-124*			

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0080167-01	P0H0282	25.08 g	1 mL	08/11/10
0080167-02	P0H0282	25.05 g	1 mL	08/11/10
0080167-03	P0H0282	25.09 g	1 mL	08/11/10
0080167-07	P0H0313	25.06 g	1 mL	08/12/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0080167-01	P0H0224	6.43 g	5 mL	08/10/10
0080167-02	P0H0224	5.21 g	5 mL	08/10/10
0080167-03	P0H0224	4.62 g	5 mL	08/10/10
0080167-07	P0H0354	6.6 g	5 mL	08/16/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0080167-01	P0H0272	30 g	30 mL	08/11/10
0080167-02	P0H0272	30 g	30 mL	08/11/10
0080167-03	P0H0272	30 g	30 mL	08/11/10
0080167-07	P0H0309	30 g	30 mL	08/12/10

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date
0080167-04	P0H0259	1000 mL	1 mL	08/11/10
0080167-05	P0H0259	1000 mL	1 mL	08/11/10
0080167-06	P0H0259	1000 mL	1 mL	08/11/10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date
0080167-04	P0H0263	10 mL	10 mL	08/11/10
0080167-05	P0H0263	10 mL	10 mL	08/11/10
0080167-06	P0H0263	10 mL	10 mL	08/11/10

CHAIN OF CUSTODY RECORD

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

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

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

Project Name: NCDOT Elizabeth City PSAs
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: _____

Client Company Name: Solutions-IES
Report To/Contact Name: Sday overmyer
Reporting Address: 101 Arowell Road Raleigh, NC
Phone: 919-873-1060 Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF ✓ Excel ___ Other _____
Site Location Name: NCDOT Elizabeth City PSAs
Site Location Physical Address: 222 Water Street

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)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE? Temp 3.1	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?	X		X
PROPER CONTAINERS used?	X		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC X
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: TPH GRO	TPH DRO	8260	8270			REMARKS	PRISM LAB ID NO.
222-1-24	8/4/10	820	soil	VOA,G	4	40mL, 120z		X							01
222-2-24	8/4/10	830	soil	VOA,G	4	↓		X							02
222-3-0-2	8/4/10	835	soil	VOA,G	4	↓		X							03
222-3	8/4/10	900	water	VOA,A	5	40mL, 1L			X	X					04
601-1	8/9/10	0740	water	VOA, A	5	↓			X	X					05
229-2	8/9/10	810	water	VOA, A	5	↓			X	X					06
507-4-1-4	8/4/10	0915	Soil	VOA, G	4			X						Added 8/12 -PB - Prism	07

PRESS DOWN FIRMLY - 3 COPIES

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

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

		Date	Military/Hours
Relinquished By: (Signature) Kathryn Doll	Received By: (Signature) Alex Lassiter	080410	1030
Relinquished By: (Signature) Alex Lassiter	Received By: (Signature)	080510	1150
Relinquished By: (Signature)	Received For Prism Laboratories By: Dawn Morris	8-5-10	1600

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other _____

COC Group No. 0080167

Additional Comments: Relinquished by - Dawn Morris 8-5-10 1805 8/5/10 1805

PRISM USE ONLY

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

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

SEE REVERSE FOR TERMS & CONDITIONS

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

ORIGINAL

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

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

Case Narrative

08/30/2010

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

Project: NCDOT Elizabeth City PSA's
Project No.: WBS# 35742.1.1
Lab Submittal Date: 08/05/2010
Prism Work Order: 0080212

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.

Narrative Notes:

Fecal Coliform analyses subcontracted to Environmental 1, Inc. Laboratory report is attached with a total page count of 8 pages.

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:

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.

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Sample Receipt Summary

Prism Work Order:

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received

Samples received in good condition at 0.6 degrees C unless otherwise noted.

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

Laboratory Report

08/30/2010

Solutions IES (NCDOT Project) Project: NCDOT Elizabeth City PSA's Prism Work Order: 0080212
Attn: Chemical Testing Engineer
Materials and Testing, 1801 Blue Ridg Project No.: WBS# 35742.1.1
Raleigh, NC 27607

Field Data

Laboratory ID	Client ID	Field Parameter	Result
0080212-01	507-6-2-4		
0080212-02	601-3-2-3		
0080212-03	229-4-2-4		
0080212-04	229-2-2-4		
0080212-05	601-1-0-2		
0080212-06	222-1-2-4		
0080212-07	222-2-2-4		
0080212-08	507-4-1-4		
0080212-09	222-2		
0080212-10	229-2		
0080212-11	601-1		
0080212-12	507-6		

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 425

PRISM (MISC. TESTING)
MS. ANGELA OVERCASH
P.O. BOX 240543
CHARLOTTE ,NC 28224-0543

DATE COLLECTED: 08/03/10
DATE REPORTED : 08/05/10

REVIEWED BY:

PARAMETERS	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5	Analysis Date	Analyst	Method Code
Fecal Coliform (MPN), /gram Solids	<2	<2	<2	<2	<2	08/04/10	MJN	SM9221E

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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FAX (252) 756-0633

ID#: 425

PRISM (MISC. TESTING)
MS. ANGELA OVERCASH
P.O. BOX 240543
CHARLOTTE ,NC 28224-0543

DATE COLLECTED: 08/04/10
DATE REPORTED : 08/05/10

REVIEWED BY:

PARAMETERS	Sample #6	Sample #7	Sample #8	Sample #9	Sample #10	Analysis Date	Analyst	Method Code
Fecal Coliform (MPN), /100 Mls				30	13	08/04/10	MEL	SM9221E
Fecal Coliform (MPN), /gram Solids	<2	13	<2			08/04/10	MJN	SM9221E

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 425

PRISM (MISC. TESTING)
MS. ANGELA OVERCASH
P.O. BOX 240543
CHARLOTTE ,NC 28224-0543

DATE COLLECTED: 08/04/10
DATE REPORTED : 08/05/10

REVIEWED BY:

PARAMETERS	Sample #11	Sample #12	Analysis Date	Analyst	Method Code
Fecal Coliform (MPN), /100 Mls	30	2400	08/04/10	MEL	SM9221E

Acct#425

PRISM LABORATORIES, INC.

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Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: NCDOT Elizabeth City PSAs
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: _____

Client Company Name: Solutions-IES
Report To/Contact Name: Jody Overmyer
Reporting Address: 1101 Nowell Road
Raleigh, NC 27607
Phone: 919-873-1060 Fax (Yes) (No): _____
Email (Yes) (No) Email Address: Jovermyer@solutions-ies.com
EDD Type: PDF X Excel ___ Other _____
Site Location Name: NCDOT Elizabeth City
Site Location Physical Address: _____

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)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 0.6	✓		
PROPER PRESERVATIVES indicated?			
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC X
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED Fecal Coliform		REMARKS	PRISM LAB ID NO.
507-6-2-4	8/3/10	1620	Soil	Plastic	1	250mL	None	X	Sample 1	SUB TO E1 (AL)	
601-3-2-3	8/3/10	1621	Soil	Plastic	1	250mL	None	X	Sample 2		
229-4-2-4	8/3/10	1645	Soil	Plastic	1	250mL	None	X	Sample 3		
229-2-2-4	8/3/10	1650	Soil	Plastic	1	250mL	None	X	Sample 4		
601-1-0-2	8/3/10	1700	Soil	Plastic	1	250mL	None	X	Sample 5		
222-1-2-4	8/4/10	825	Soil	Plastic	1	250mL	None	X	Sample 6		
222-2-2-4	8/4/10	0755	Soil	Plastic	1	250mL	None	X	Sample 7		
507-4-1-4	8/4/10	915	Soil	Plastic	1	250mL	None	X	Sample 8		
222-2	8/4/10	935	Water	Plastic	1		$Na_2S_2O_3$	X	Sample 9		
229-2	8/4/10	937	Water	Plastic	1		↓	X	Sample 10		

PRESS DOWN FIRMLY - 3 COPIES

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

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

		Date	Military/Hours
Relinquished By: (Signature) Kathryn Dall	Received By: (Signature) Alex Lasseter	080410	1030
Relinquished By: (Signature) Alex Lasseter	Received By: (Signature) Margo Nyne	8/4/10	1235
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

COC Group No.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

Additional Comments:

PRISM USE ONLY

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

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

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

SEE REVERSE FOR TERMS & CONDITIONS

INVOICE COPY

Work Order #425

PRISM LABORATORIES, INC.

Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Solutions-IES
Report To/Contact Name: Jody Wevmyer
Reporting Address: 1101 Wowell Road, Raleigh, NC
Phone: 919-873-1060 Fax (Yes) (No): _____
Email (Yes) (No) Email Address: _____
EDD Type: PDF ✓ Excel ___ Other _____
Site Location Name: NCDOT Elizabeth City
Site Location Physical Address: _____

Project Name: _____
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: _____

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)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 0.6°	✓		
PROPER PRESERVATIVES indicated?			
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: Fecal Coliform	REMARKS	PRISM LAB ID NO.
601-1	8/9/10	940	water	Plastic	1		$Na_2S_2O_3$	✓ Sample #1	SUB TO E1 (AL)	
507-6	8/9/10	955	water	Plastic	1		↓	✓ Sample #2	SUB TO E1 (AL)	

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

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

		Date	Military/Hours
Relinquished By: (Signature) Kathryn Doll	Received By: (Signature) Alex Lessard	080410	1030
Relinquished By: (Signature) Alex Lessard	Received By: (Signature) Mason Long	8/4/10	1235P
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	

Additional Comments:

PRISM USE ONLY

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

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

COC Group No.

❑ Fed Ex ❑ UPS ☒ Hand-delivered ☒ Prism Field Service ❑ Other _____

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

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

SEE REVERSE FOR TERMS & CONDITIONS

INVOICE COPY