

**PRELIMINARY SITE ASSESSMENT
MANN CAPITAL PROPERTIES LIMITED
610 EAST ELIZABETH STREET
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1**

Prepared for:

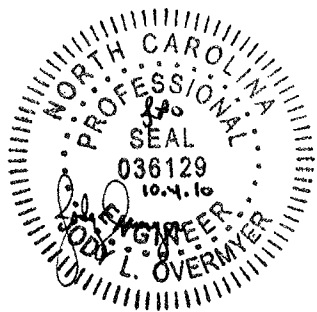
NC Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Prepared by:

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

September 13, 2010



Jody Overmyer, P.E.
Project Engineer

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

Sheri L. Knox
Senior Project Manger

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
2.0 BACKGROUND AND SITE DESCRIPTION	1
3.0 FIELD ACTIVITIES	1
4.0 LABORATORY RESULTS.....	3
5.0 DISCUSSION/CONCLUSIONS	4

TABLES

Table 1	Summary of Field Screening Results For Soil
Table 2	Summary of Soil Analytical Results
Table 3	Summary of Groundwater Analytical Results

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Soil and Groundwater Sample Location Map

APPENDICES

Appendix A	Site Priority Ranking Score and Suspension Letter
Appendix B	Photographs
Appendix C	Geophysical Report
Appendix D	GPS Coordinates
Appendix E	Boring Logs
Appendix F	Laboratory Analytical Report

1.0 INTRODUCTION

Mann Capital Properties Limited is located at 610 East Elizabeth Street, Elizabeth City, Pasquotank County, North Carolina. It currently operates as a used car dealership and the location of the property is shown on **Figures 1 and 2**. The North Carolina Department of Transportation (NCDOT) plans to acquire the proposed right-of-way (ROW)/easement at this property to accommodate 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

Mann Capital Properties Limited owns the property which once operated as a Midway Service Station. It is located on the northwest corner of North Water Street and East Elizabeth Street. According to the North Carolina Department of Environment and Natural Resources (NCDENR) underground storage tank (UST) registry, the site contained three tanks which were closed in 1989 and two tanks which were closed in 1992. Vent pipes, fill ports, and several monitoring wells were observed on the property. Groundwater Incident # 10138 has been assigned to this facility. On July 17, 1996, NCDENR issued a priority ranking of 25/E and temporarily suspended the requirement to cleanup a discharge or release from a petroleum UST for lower priority sites (those ranked C, D, or E), implying that work on this site has been suspended until further notice (**Appendix A**). Solutions-IES personnel were unable to locate files dated more recently than July 17, 1996 during the file review for this property. The property is built on-top-of and beside a small creek that flows into the nearby Pasquotank River with a portion of the property consisting of a concrete “deck” that extends over the creek. The PSA was performed along the proposed ROW/easement that stretches west to east along the north side of East Elizabeth Street. Work was not performed in areas outside of the proposed ROW/easement. Photographs of the site are included in **Appendix B**.

3.0 FIELD ACTIVITIES

Prior to mobilizing to conduct work, Solutions-IES contacted North Carolina One Call and contracted Accumark to locate underground utilities at the site. Pyramid Environmental & Engineering, P.C.

(Pyramid) was contracted to perform a geophysical survey, and mobilized to the study area July 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 ROW/easement at Mann Capital Properties Limited most likely contains at least one metallic UST. 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 2 and August 4, 2010, to collect soil and groundwater samples. Concrete at the property was found to be up to 2-feet thick. Penhall Company was contracted during the field activities to cut cores 4 inches in diameter at borings 610-3, 610-4, 610-5, 610-6, 610-7, 610-8, 610-9 and 610-10. Nine borings were completed to a depth of 4 feet below ground surface (ft bgs) using a Geoprobe[®]. One boring was advanced by hand using a 2-inch stainless steel bucket auger. The approximate locations of the soil borings are displayed in **Figure 3**. The GPS coordinates of the boring locations are included in **Appendix D**. Two borings (Boring Number 610-1 and 610-7) were advanced to a depth of 8-ft below ground surface (bgs) to install a temporary well. Planned boring 610-9 was not screened or sampled due to saturated soils underneath the concrete.

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. Hand augured samples were collected in 1-foot intervals and placed on plastic sheeting. Each aliquot was placed in a separate resealable plastic bag. Each soil sample was split into two aliquots. Each aliquot was placed in a separate resealable plastic bag. One bag was placed on ice for possible laboratory analysis, while the other bag was sealed and placed at ambient temperature for field screening with a flame ionization detector (FID). After approximately 20 minutes to allow accumulation of volatile organic compounds (VOCs) in the headspace of the bag, each sealed bag was scanned with the FID. The FID measurements were entered into the field logbook along with the soil description and any indications of staining or odor. That information was subsequently transferred onto boring logs. The boring logs are provided in **Appendix 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 dark brown to tan silty sand (Unified Soil Classification SM). Groundwater was measured at approximately 4 ft bgs. Borings located in the concrete had 6 inches to 1 foot of void space between the bottom of the concrete and top of the soil. The combination of

concrete and void space was considered overburden. Due to thicker overburden, borings 610-3, 610-4, 610-7, 610-9 and 610-10 were not screened or sampled from 0 to 2 feet; boring 610-5 was not screened or sampled from 0 to 1.5 feet; borings 610-6 and 610-8 were not screened or sampled from 0 to 1 feet.

Table 1 shows the FID field screening results of the soils ranged from not detected to 2,498 parts per million (ppm). One soil sample was collected from each boring at the interval identified in **Table 1**. The samples were placed in laboratory-supplied jars and stored on ice pending courier service to Prism Laboratories in Charlotte, NC. Sample information was recorded on the chain-of-custody form. The soil samples collected at the site were analyzed using the following analytical methods: total petroleum hydrocarbons gasoline range organics and diesel range organics (TPH GRO/DRO) by EPA Methods 5035/3545/8015.

Due to the shallow water table, temporary groundwater monitoring wells were installed and sampled. Upon completion of the borings 610-1 and 610-7, 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 1 foot above the well screen. 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 before sampling and promptly abandoned once sampling was complete.

Appendix E contains boring logs 610-1 and 610-7 and temporary well construction information. The stabilized water level was measured at 4.25 ft bgs. The well was then sampled with a peristaltic pump, utilizing 3/8-inch diameter disposable polyethylene tubing. Prior to sample collection field parameters including pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity and conductivity were allowed to stabilize then recorded. Groundwater samples obtained from the well were submitted for analysis of VOCs by EPA Methods 8260 and semivolatile organic compounds (SVOCs) by EPA Method 8270. Each sample was placed in laboratory-supplied jars then stored on ice pending courier service to Prism Laboratories in Charlotte, NC. Sample information was recorded on the chain-of-custody form.

4.0 LABORATORY RESULTS

The laboratory analytical results indicate the presence of TPH (GRO/DRO) in soil and SVOCs in groundwater concentrations above the laboratory reporting limits at Mann Properties Limited.

Specifically, TPH (GRO) was detected at a concentration of 4,900 milligrams per kilogram (mg/kg) in

boring 610-10, which is above the NCDENR action level¹ for tank closure screening of 10 mg/kg since this site may contain a UST. TPH (DRO) was detected at concentrations above the NCDENR action level in 610-1 (45 mg/kg), 610-7 (920 mg/kg), and 610-10 (710 mg/kg). Soil boring 610-10 had the highest detection of combined TPH (DRO) and TPH (GRO). The analytical results are summarized in **Table 2**, and the laboratory report is included in **Appendix F**.

The groundwater sample collected from borehole 610-1 had detections of several SVOCs above laboratory reporting limits, but no detections were above the NCAC 15A 2L.0200 (NC 2L) standard². Additionally, the groundwater sample 610-7 did not have any detected concentrations above the laboratory reporting limits. A summary of the analytical results for groundwater is provided as **Table 3**, and the laboratory report is included in **Appendix F**.

5.0 DISCUSSION/CONCLUSIONS

The geophysical survey conducted at the site suggested that at least one probable UST is present within the surveyed portion of the proposed ROW and/or easement. Solutions-IES completed nine soil borings at the study area to a depth of 4 ft bgs. The highest FID reading measured 2,498 ppm in boring 601-10 at a depth of 2 to 4 ft bgs. The highest concentrations of TPH (GRO/DRO) were also detected in soil sample 601-10 at a depth of 2 to 4 ft bgs. Groundwater sample 610-1 reported several SVOCs, but no concentrations above the NC 2L standard.

The approximate total volume of soil with contaminants of concern in excess of the NCDENR action level within the proposed ROW/easement area at Mann Properties Limited is estimated at 635 bank cubic yards based on the depth of contamination extending to 4 ft bgs. The areal extent of TPH contamination in soil estimated within the proposed ROW/easement is illustrated in **Figure 3**. Note that Solutions-IES attempted to identify the extent of unsaturated soil contamination. However, given local tidal fluctuations, it is possible that much of the soil has been in contact with groundwater and impacted with contaminants that may be present in groundwater. From the base drawing provided by NCDOT, it appears that the borings advanced by Solutions-IES are in areas where impacted soil may be excavated during construction activities performed by NCDOT. Therefore, Solutions-IES recommends that

¹ *UST Section Guidelines Site Checks, Tank Closure, and Initial Response and Abatement (NCDENR, Division of Waste Management [DWM], UST Section, March 1, 2007; Version; Change 3, Effective December 1, 2008)*

² *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)*

NCDOT be prepared to monitor, transport, and dispose of impacted soil during construction activities, prepared to encounter residual groundwater contamination, and also consider exposure of workers to impacted soil and groundwater. Additional assessment would be necessary to confirm the source of the contamination in soil and groundwater.

TABLES

TABLE 1
Summary of Field Screening Results for Soil
Mann Capital Properties
610 E. Elizabeth Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 2-4, 2010

Sample Depth Below Ground Surface	Soil Boring									
	610-1	610-2	610-3	610-4	610-5	610-6	610-7	610-8	610-9	610-10
	FID Reading (ppm)									
0 - 2 feet	7.8	3.7	NR	NR	NR	NR	NR	NR	NR	818.1
1 - 4 feet	--	--	--	--	--	0.0	--	--	--	--
1.5 - 4 feet	--	--	--	--	0.0	--	--	--	--	--
2 - 4 feet	58.5	0.4	10.9	8.7	--	--	--	12.6	257.8	2,498
3 - 4 feet	--	--	--	--	--	--	3.6	--	--	--

Notes:

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

ppm = parts per million

Samples denoted by shaded cells were submitted for laboratory analysis.

NR = No Recovery

-- Data not available

TABLE 2
Summary of Soil Analytical Results
Mann Capital Properties
610 E. Elizabeth Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 2-4, 2010

Sample Information			Total Petroleum Hydrocarbons	
Boring Number	Sample Date	Depth (ft bgs)	Gasoline Range ¹ (mg/kg)	Diesel Range ² (mg/kg)
610-1	8/2/2010	2-4	<5.5	45
610-2	8/2/2010	0-2	<5.6	<8.8
610-3	8/4/2010	2-4	<4.9	<7.8
610-4	8/4/2010	2-4	<5.3	<7.9
610-5	8/4/2010	1.5-4	<6.6	<7.4
610-6	8/4/2010	1-4	<5.4	<7.5
610-7	8/4/2010	3-4	<6.5	920
610-8	8/4/2010	1-4	<5.2	<8.1
610-9	8/4/2010	Sample Not Collected		
610-10	8/4/2010	2-4	4900	710
Action Level			10	10

Notes:

1. Total Petroleum Hydrocarbons (TPH) Method 5035/8015MOD - Gasoline Range Hydrocarbons
 2. Total Petroleum Hydrocarbons (TPH) Method 3545/8015MOD - Diesel Range Hydrocarbons
- ft bgs = feet below ground surface
mg/kg = milligram per kilogram
Bold values indicate detected concentrations.
Shaded values exceed NCDENR action level.

TABLE 3
Summary of Groundwater Analytical Results
Mann Capital Properties
610 E. Elizabeth Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438
Sample Collection Date: August 2-4, 2010

Sample Information		VOCs (µg/L)	SVOCs (µg/L)							
Sample ID	Date	All Analytes	Acetone	Benzene	Isopropylbenzene	Napthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene
610-1	8/2/2010	BRL	15	0.92 J	15	2.0	4.2	7.9	7.3	0.92 J
610-7	8/4/2010	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
NC 2L Groundwater Quality Standards		NA	6,000	1	70	6	70	70	70	70

Notes:

VOCs = Volatile organic compounds by EPA Method 8260

SVOCs = Semivolatile organic compounds by EPA Method 8270

µg/L = Micrograms per liter

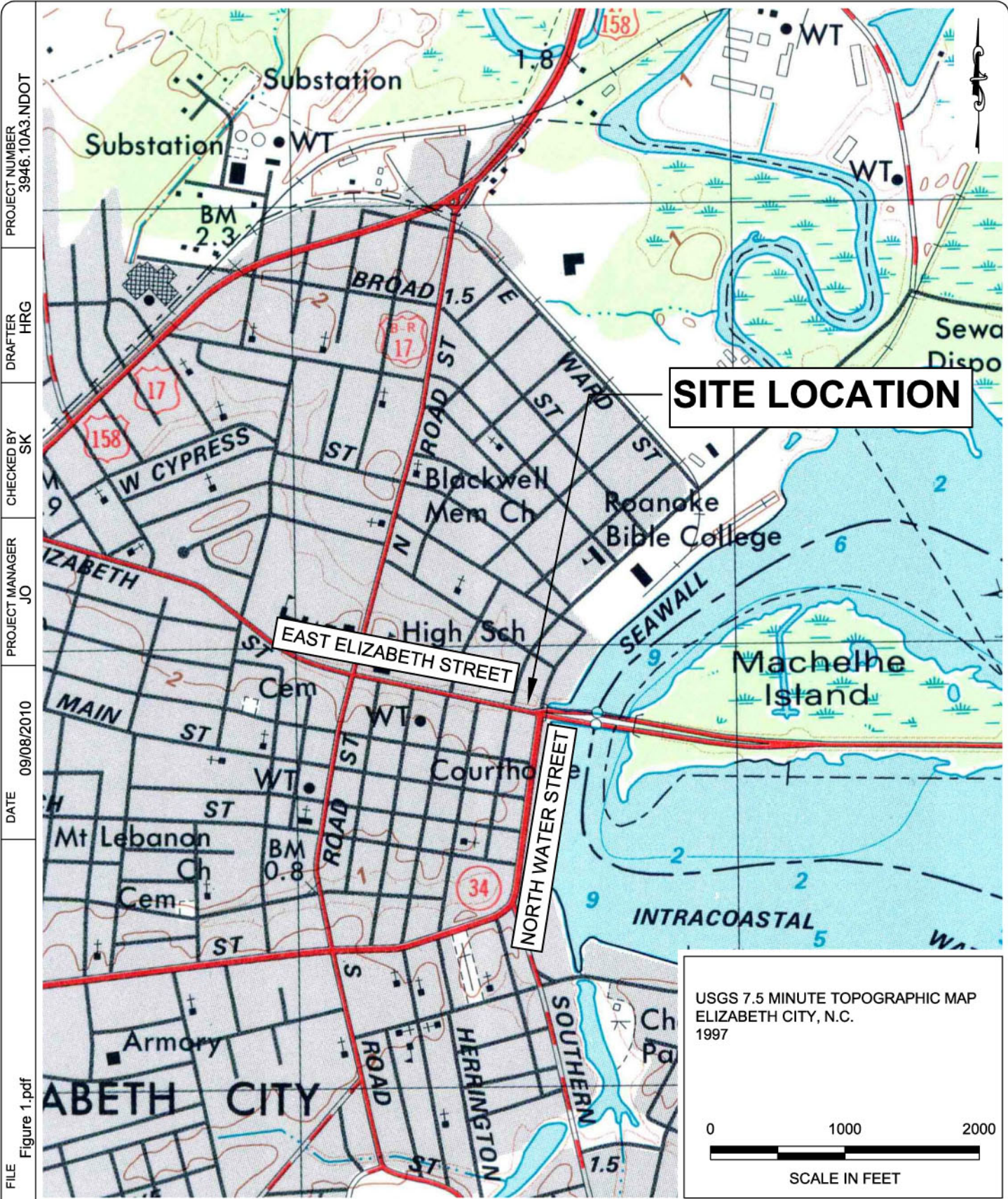
BRL = Below laboratory reporting limits

Bold indicates value exceeds laboratory reporting limit.

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

NA = Not applicable

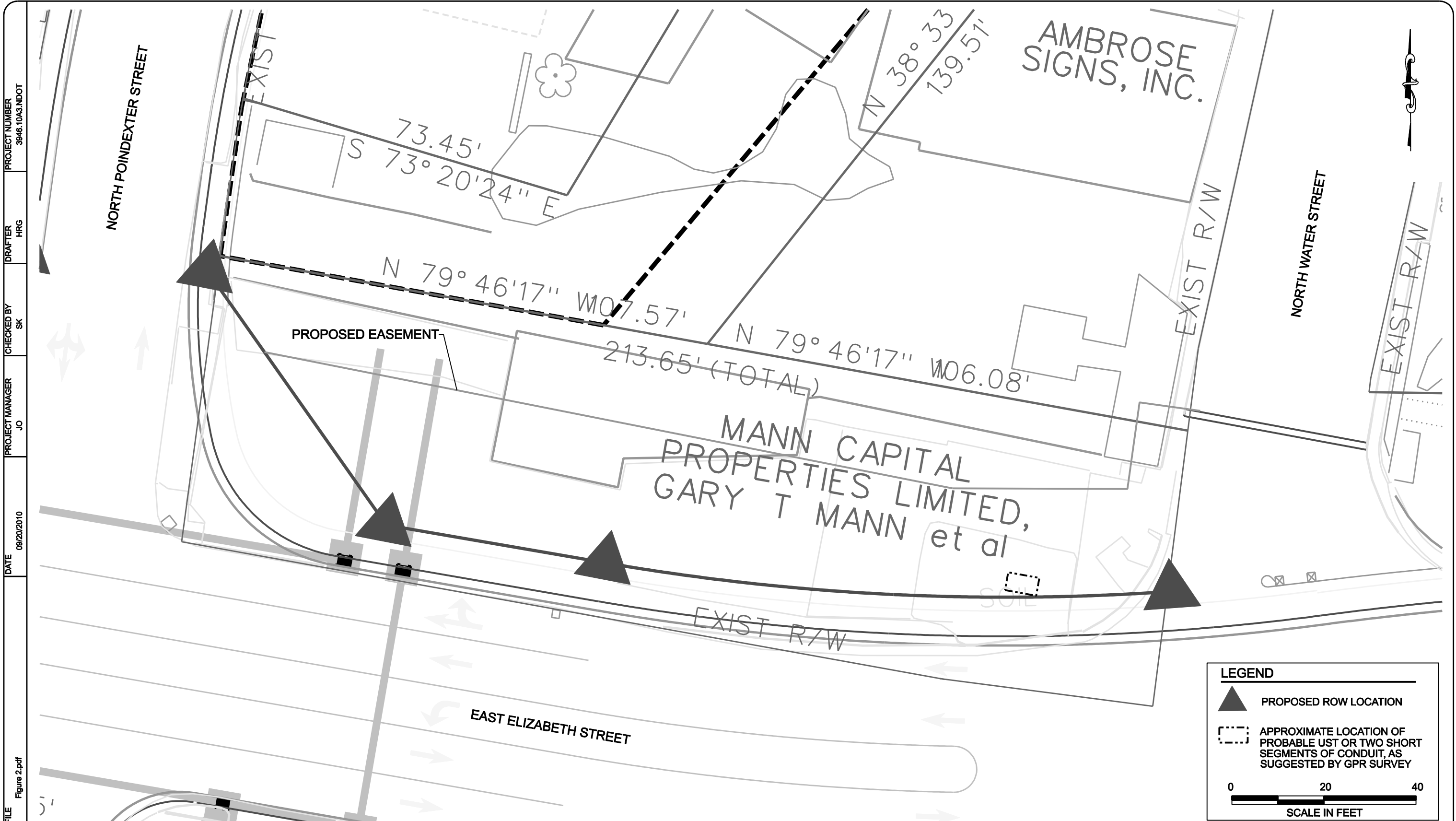
FIGURES



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MANN CAPITAL PROPERTIES LIMITED
610 EAST ELIZABETH STREET
ELIZABETH CITY, NORTH CAROLINA
STATE PROJECT: U-4438
WBS ELEMENT: 35742.1.1

FIGURE:
1



PROJECT NUMBER 3946.10A3.NDOT
 DRAFTER HRG
 CHECKED BY SK
 PROJECT MANAGER JO
 DATE 08/20/2010
 FILE Figure 2.pdf

LEGEND

-  PROPOSED ROW LOCATION
-  APPROXIMATE LOCATION OF PROBABLE USE OR TWO SHORT SEGMENTS OF CONDUIT, AS SUGGESTED BY GPR SURVEY

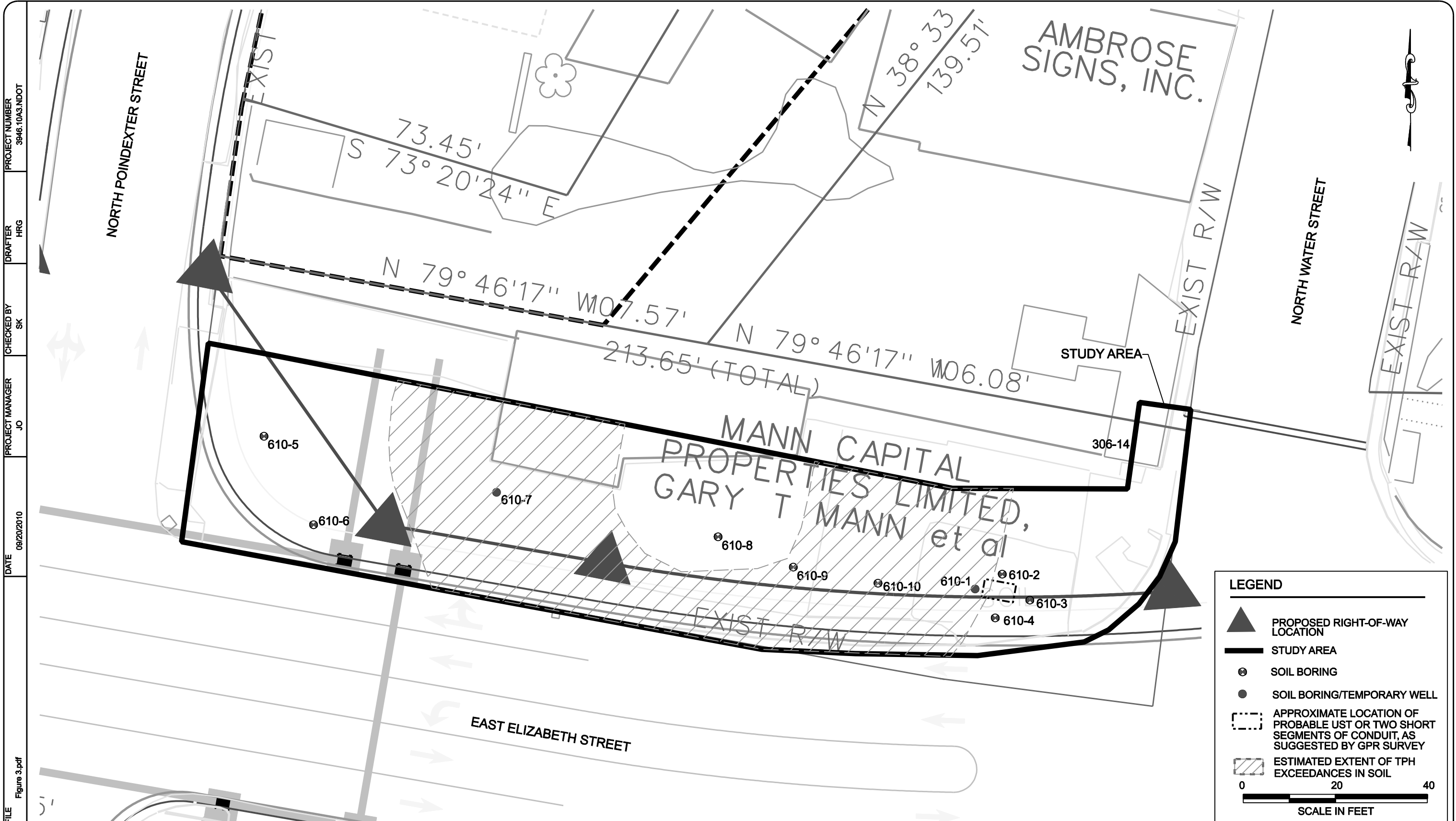
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 SCALE IN FEET

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 1101 NOWELL ROAD
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 TEL.: (919) 873-1060 FAX.: (919) 873-1074

MANN CAPITAL PROPERTIES LIMITED PROPERTY
 610 EAST ELIZABETH STREET
 ELIZABETH CITY, NORTH CAROLINA
 STATE PROJECT: U-4438
 WBS ELEMENT: 35742.1.1

SITE MAP

FIGURE:
2



NOTE:
 1) BORING LOCATION 610-9 WAS ADVANCED, BUT NO SOIL SAMPLES WERE COLLECTED DUE TO SATURATION.

MANN CAPITAL PROPERTIES LIMITED PROPERTY
 610 EAST ELIZABETH STREET
 ELIZABETH CITY, NORTH CAROLINA
 STATE PROJECT: U-4438
 WBS ELEMENT: 35742.1.1

SOIL AND GROUNDWATER
 SAMPLE LOCATION MAP

FIGURE:
 3

APPENDIX A

SITE PRIORITY RANKING SCORE AND SUSPENSION LETTER



**DIVISION OF WATER QUALITY
GROUNDWATER SECTION**

July 17, 1996

Dear Underground Storage Tank Owner/Operator:

The General Assembly of North Carolina introduced legislation during the 1995 Short Session to address the continued solvency of the Leaking Petroleum Underground Storage Tank Cleanup Funds. The Underground Storage Tank (UST) Senate Bill 1317 (SB 1317) was ratified on June 21, 1996. SB 1317 requires the Department of Environment, Health, and Natural Resources (Department) to rank all UST-related contamination incidents according to the Section's revised Site Priority Ranking System which classifies sites as: A, B (highest priority), C, D or E (lower priority). Further, SB 1317 requires the Department to notify the UST owner, operator and/or other responsible party (RP), as applicable, of the ranking of their site. Please find below a statement notifying you of the priority ranking the Department has assigned to your site.

Your Site has been assigned a priority ranking score of:

RANK SCORE: 25/E
MIDWAY SERVICE STATION
Mr. Julian Winslow
ELIZABETH CI, PASQUOTANK COUNTY, NORTH CAROLINA
GROUNDWATER INCIDENT NO: 10138

SB 1317 temporarily suspends the requirement to cleanup a discharge or release from a petroleum UST for lower priority sites (i.e., those ranked C, D, or E). This legislation is effective July 21, 1996. Therefore, costs for site assessment or corrective actions at C, D or E sites which were incurred after July 21, 1996 will not be reimbursed from either the Commercial or Noncommercial Trust Fund, except as required by the Code of Federal Regulations (CFR) in 40 CFR 280.50 through 280.53 and 280.60 through 280.64. The suspension of cleanups applies to low priority sites currently being remediated or monitored, including remediation pursuant to 2L .0106(k), (l) and (m). Specific exceptions to the suspension of reimbursement are listed in SB 1317.

APPENDIX B
PHOTOGRAPHS

Appendix A - Photographs



Photograph 1 – View of Mann Capital Properties Limited and tank bed, looking southwest from North Water Street.



Photograph 2 – View of Mann Capital Properties Limited looking east.

Appendix A - Photographs



Photograph 3 – View of Mann Capital Properties Limited on west side of the property looking east.



Photograph 4 – View of tidal creek and Mann Capital Properties Limited looking east.

Appendix A - Photographs



Photograph 5 – View underneath Mann Capital Properties Limited from the tidal creek looking south.

APPENDIX C
GEOPHYSICAL REPORT


GEOPHYSICAL INVESTIGATION REPORT


EM61 & GPR SURVEYS

**610 EAST ELIZABETH STREET SITE
Elizabeth City, North Carolina**

August 18, 2010

**Report prepared for: Jody L. Overmyer, P.E.
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Prepared by: 
Mark Denit, PG

Reviewed by: 
Douglas Canavello, PG

**PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
P.O. Box 16265
GREENSBORO, NC 27416-0265
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Solutions-IES
GEOPHYSICAL INVESTIGATION REPORT
610 EAST ELIZABETH STREET SITE
Elizabeth City, North Carolina

<u>TABLE OF CONTENTS</u>	<u>PAGE</u>
1.0 INTRODUCTION	1
2.0 FIELD METHODOLOGY	1
3.0 DISCUSSION OF RESULTS	2
4.0 SUMMARY & CONCLUSIONS	2
5.0 LIMITATIONS	3

FIGURES

- Figure 1 Geophysical Equipment & Site Photographs
- Figure 2 Ground Penetrating Radar Results
- Figure 3 Images of GPR Survey Lines X=195 Y=32.5

1.0 INTRODUCTION

Pyramid Environmental conducted geophysical investigations for Solutions-IES across the proposed Right-of-Way (ROW) area of the 610 East Elizabeth Street site located in Elizabeth City, North Carolina. The property is owned by Mann Capital Properties Limited and presently contains an active auto sales and repair facility. The site consists of concrete pavement and a garage/office building.

Conducted on July 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 610 East Elizabeth 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 215 feet and 45 feet, respectively. Photographs of the geophysical equipment used in this investigation and the geophysical survey area at the 610 East Elizabeth 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.

After establishing the survey grid, a two-minute recon was performed with the EM61 metal detector across the site. The recon indicated that much of the site contains steel reinforced concrete pavement which eliminated the opportunity to conduct an EM61 metal detection survey. Consequently, a comprehensive ground penetrating radar (GPR) investigation was conducted across the entire proposed ROW area 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.

The purple solid lines in **Figure 2** represent the locations of the GPR survey lines acquired at the site. Preliminary geophysical results obtained from the 610 East Elizabeth Street site were reported to Ms. Overmyer on July 19, 2010.

3.0 DISCUSSION OF RESULTS

Images of GPR survey lines X=195 and Y=32.5 are presented in **Figure 3** and show high amplitude, hyperbolic anomalies that are possibly in response to a small UST or object. The possible UST or object is centered near grid coordinates X=195 Y=32.5. The foot print of the possible UST, as suggested by the GPR data, was marked in the field using orange marking paint and pin flags.

Although buried lines and conduits were detected by the GPR investigation, the GPR anomalies recorded at the above location represent the only potential (possible) UST that was detected by the GPR survey. Based on verbal information provided the owner of the auto sales and repair facility, the former UST area is located near grid coordinates X=135 Y=35.

The GPR data suggest that the remaining portion of the proposed ROW area at the 610 East Elizabeth Street site does not contain unknown, metallic USTs.

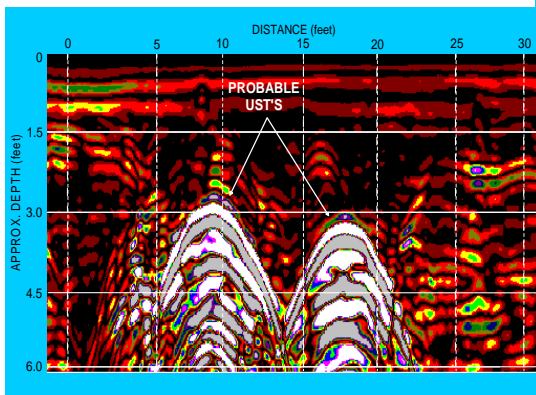
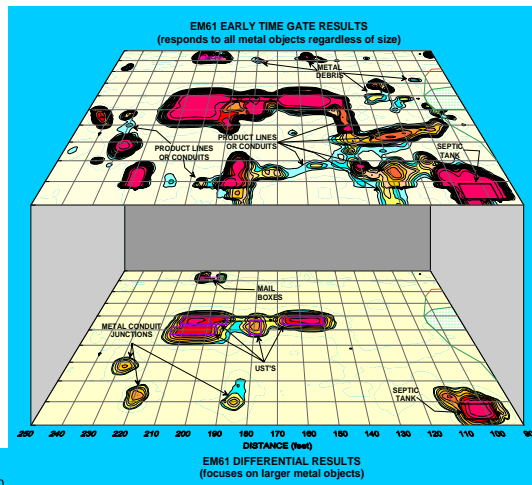
4.0 SUMMARY & CONCLUSIONS

Our evaluation of the GPR data collected across the proposed ROW area at the 610 East Elizabeth Street site located in Elizabeth City, North Carolina, provides the following summary and conclusions:

- The GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portion of the site.
- GPR surveys recorded high amplitude, hyperbolic anomalies centered near grid coordinates X=195 Y=32.5 that may be in response to a possible metallic UST or object.
- The geophysical investigation suggests that the remaining portion of the GPR survey area does not contain buried metallic USTs.

5.0 LIMITATIONS

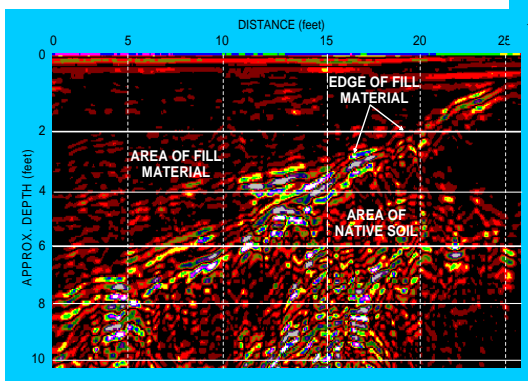
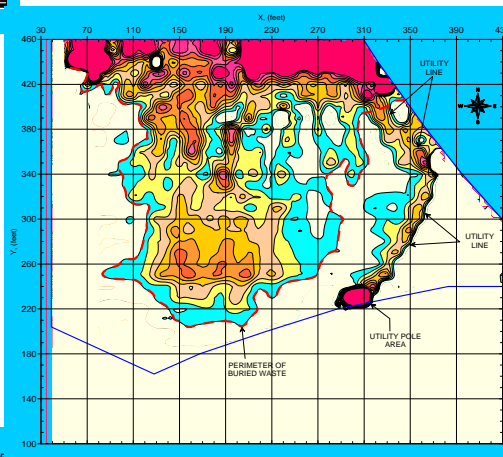
GPR surveys have been performed and this report prepared for Solutions-IES in accordance with generally accepted guidelines for GPR surveys. It is generally recognized that the results of the GPR data are non-unique and may not represent actual subsurface conditions. The GPR results do not conclusively determine that only one possible UST is present at this site but that only one was detected.



FIGURES

(on the following pages)

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





The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar (GPR) investigation at the 610 East Elizabeth Street site on July 8, 2010.

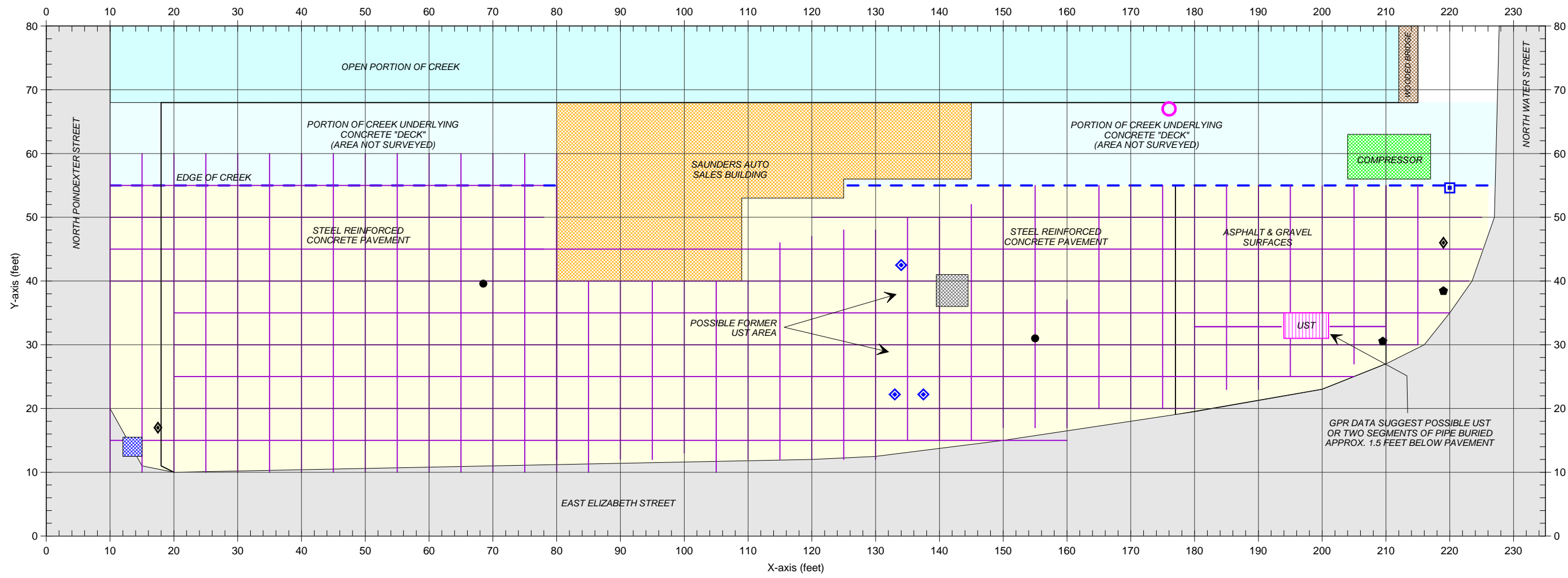


The photograph shows 610 East Elizabeth Street site (Mann Capital Properties, Limited) located at the intersection of East Elizabeth Street and North Water Street in Elizabeth City, North Carolina. The photograph is viewed in a northeasterly direction.



CLIENT	SOLUTIONS-IES		DATE	08/16/10	BY	MJD
SITE	610 EAST ELIZABETH STREET		LAY		DRWD	
CITY	ELIZABETH CITY	STATE	NORTH CAROLINA	ENG		
TITLE	GEOPHYSICAL RESULTS		NO.	2010-159	PROJ	

GEOPHYSICAL EQUIPMENT
& SITE PHOTOGRAPHS



LEGEND

	SURVEY AREA: GPR DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
	BUILDING
	METAL PLATE OVER FORMER UST PAD
	STORM SEWER GRATE
	4 UST VENT PIPES
	GUY WIRE
	ROAD SIGN
	VALVE COVER
	WATER METER COVER
	UTILITY POLE
	MONITORING WELL
	GPR SURVEY LINE
	POSSIBLE UST OR SHORT PIPES, AS SUGGESTED BY GPR DATA



Note: EM61 metal detection surveys were not conducted at the 610 East Elizabeth Street site due to steel reinforced concrete covering much of the parcel. Consequently, ground penetrating radar (GPR) surveys were conducted along X-axis and Y-axis lines spaced 5 feet apart across the entire area of interest. GPR data were acquired on July 8, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

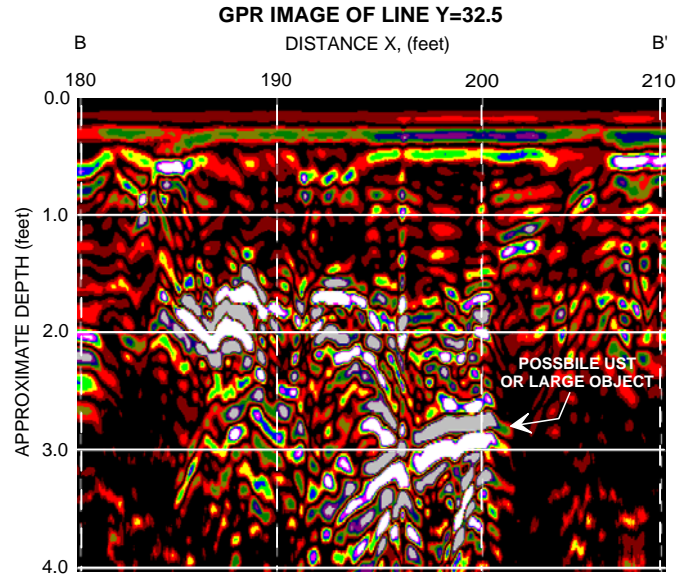
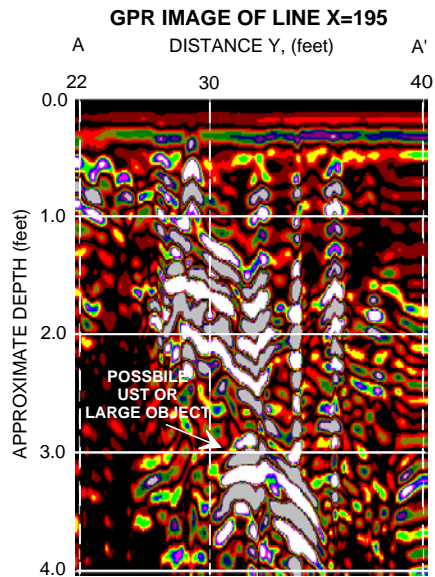
The GPR survey detected a possible UST or two short segments of conduit centered near grid coordinates X=197 Y=33.

GROUND PENETRATING RADAR RESULTS

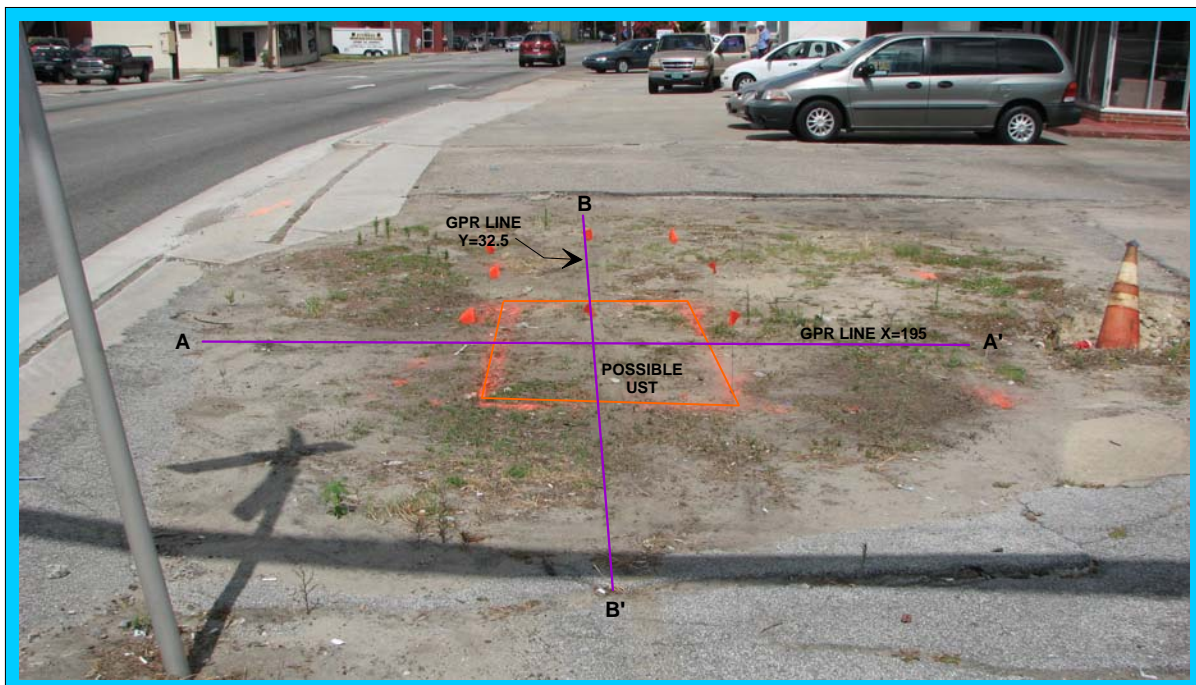
FIGURE 2

CLIENT	SOLUTIONS-IES	DATE	DRAWN	MJD
610 EAST ELIZABETH STREET		08/16/10	CHKO	
CITY	STATE	DWG	LAY	FIGURE
ELIZABETH CITY	NORTH CAROLINA			2010-159
TITLE	GEOPHYSICAL RESULTS			

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



The GPR images obtained along a portion of survey lines X=195 and Y=32.5 recorded high amplitude, hyperbolic GPR anomalies (reflections shaded in white) that may possibly be in response to a UST or large metallic object buried approximately 2.7 feet below the concrete surface. The solid purple lines labeled AA' and BB' in the photograph below show the locations of GPR images X=195 and Y=32.5.



The orange rectangle in the photograph represents the approximate perimeter of a possible UST or large object buried within the proposed ROW area and centered near grid coordinates X=195 Y=32.5. Based upon GPR data, the UST or object is buried approximately 1.7 feet below the concrete pad and oriented in a east-west direction. The solid purple lines represent the approximate location of the GPR images X=195 and Y=32.5 shown above. The photograph is viewed in a westerly direction.



CLIENT	SOLUTIONS-IES		DATE	08/16/10	DRWN	MJD
SITE	610 EAST ELIZABETH STREET SITE		LAY		DATE	
CITY	ELIZABETH CITY	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		NO.	2010-159	REV	

IMAGES OF GPR SURVEY
LINES X=195 & Y=32.5

APPENDIX D
GPS COORDINATES

APPENDIX D
Boring Locations GPS Coordinates
Mann Capital Properties Limited
610 East Elizabeth Street
Elizabeth City, North Carolina
WBS Element: 35742.1.1; State Project: U-4438

Boring Identification	Latitude	Longitude
610-1	36.301448	76.218598
610-2	36.301470	76.218560
610-3	36.301421	76.218561
610-4	36.301416	76.218585
610-5	36.301594	76.219239
610-6	36.301535	76.219137
610-7	36.301530	76.218987
610-8	36.301480	76.218860
610-9	36.301532	76.218762
610-10	36.301463	76.218709

APPENDIX E

BORING LOGS

Log of Soil Boring: 610-1

Project Name: **Elizabeth City PSAs**
 Client: **NCDOT**
 Project Location: **Elizabeth City** State: **NC**
 Site or Area: **610 E Elizabeth ST**
 Drilling Method: **Direct push**
 Sample Method: **Macrocore**
 Logged by: **BE**

Solutions-IES Project Number: **3946.10A3.NDOT**
 Northing: **940121.39** Easting: **2819555.4**
 County: **Pasquotank** City: **Elizabeth City**
 Date Started: **8/2/2010** Date Completed: **8/2/2010**
 Initial Water Level: **~4' BGS** Final Water Level: **4.25' BGS**
 Date & Time (i): **8/5/10 1310** Date & Time (f): **8/2/10**
 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 ID	Well Const.
0	0.00		Ground Surface						
		SP	Tan fine sand, semi-moist				7.8		
2		SP	Tan fine sand, moist		30		58.5	610-1-2-4	
6		SP	Grey medium sand, saturated with odor		30				
8			End of Boring						
<p>Notes: Field Screen conducted with FID. Results in parts per million (ppm). Depth in Feet:</p>									

Well Construction Details

Drilling Contractor: **Solutions-IES, Inc.**

Size of Borehole: **3.75"** TOC Elevation: **0**

Completion: **Temporary** Casing Diameter: **1"**

Total Depth: **7.55' BGS** Casing Material: **Sch 40 PVC**

Screen Interval: **2.55'-7.55' BGS**

Screen Material: **Sch 40 PVC**

Slot Size: **0.10"**



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 Raleigh, North Carolina 27607
 Tel.: 919.873.1060 Fax.: 919.813.1074

Log of Soil Boring: 610-2

Project Name: **Elizabeth City PSAs**
 Client: **NCDOT**
 Project Location: **Elizabeth City** State: **NC**
 Site or Area: **610 E Elizabeth ST**
 Drilling Method: **Direct push**
 Sample Method: **Macrocore**
 Logged by: **BE**

Solutions-IES Project Number: **3946.10A3.NDOT**
 Northing: **940129.71** Easting: **2819566.37**
 County: **Pasquotank** City: **Elizabeth City**
 Date Started: **8/2/2010** Date Completed: **8/2/2010**
 Initial Water Level: **~4' BGS** Final Water Level:
 Date & Time (i): **8/2/2010 12:10** Date & Time (f):
 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							
		SP	Tan fine sand, moist				3.7		610-2-0-2	
2		SP	Tan fine sand, semi-moist		30		0.4			
4			Saturated							
6					30		NA			
8			End of Boring							
<p>Notes: Boring was advanced to 8 ft bgs; due to saturation was not logged or screened below 4 ft bgs. Field Screen conducted with FID. Results in parts per million (ppm). Depth in Feet</p>										

Well Construction Details

Drilling Contractor: **Solutions-IES, Inc.**
 Size of Borehole: **3.75"** TOC Elevation: **0**
 Completion: Casing Diameter:
 Total Depth: Casing Material:

Screen Interval:
 Screen 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: 610-3

Project Name: **Elizabeth City PSAs**
 Client: **NCDOT**
 Project Location: **Elizabeth City** State: **NC**
 Site or Area: **610 E Elizabeth ST**
 Drilling Method: **Direct push**
 Sample Method: **Macrocore**
 Logged by: **BE**

Solutions-IES Project Number: **3946.10A3.NDOT**
 Northing: **940111.87** Easting: **2819566.57**
 County: **Pasquotank** City: **Elizabeth City**
 Date Started: **8/4/2010** Date Completed: **8/4/2010**
 Initial Water Level: **~4' BGS** Final Water Level:
 Date & Time (i): **8/4/2010 14:45** Date & Time (f):
 WBS #: **35742.1.1** State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
2			SP Tan fine sand, fill, loose		30		10.9		610-3-2-4	
4			End of Boring							
6										
8										

Notes:
 Field Screen 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: **0**
 Completion: Casing Diameter:
 Total Depth: Casing Material:

Screen Interval:
 Screen Material:
 Slot Size:



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 1101 Nowell Road
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 Tel.: 919.873.1060 Fax.: 919.813.1074

Log of Soil Boring: 610-4

Project Name: **Elizabeth City PSAs**

Solutions-IES Project Number: **3946.10A3.NDOT**

Client: **NCDOT**

Northing: **940109.85**

Easting: **2819559.55**

Project Location: **Elizabeth City** State: **NC**

County: **Pasquotank**

City: **Elizabeth City**

Site or Area: **610 E Elizabeth ST**

Date Started: **8/4/2010**

Date Completed: **8/4/2010**

Drilling Method: **Direct push**

Initial Water Level: **~4' BGS**

Final Water Level:

Sample Method: **Macrocore**

Date & Time (i): **8/4/2010 14:55**



Date & Time (f):

Logged by: **KD**

Checked by:

WBS #: **35742.1.1**

State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
2			SP Tan fine sand, fill, loose		30		8.7		610-4-2-4	
4			End of Boring							
6										
8										

Notes:
 Field Screen 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: **0**

Completion: Casing Diameter:

Total Depth: Casing Material:

Screen Interval:

Screen Material:

Slot Size:

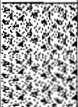



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Log of Soil Boring: 610-5

Project Name: **Elizabeth City PSAs**
 Client: **NCDOT**
 Project Location: **Elizabeth City** State: **NC**
 Site or Area: **610 E Elizabeth ST**
 Drilling Method: **Direct push**
 Sample Method: **Macrocore**
 Logged by: **KD**

Solutions-IES Project Number: **3946.10A3.NDOT**
 Northing: **940169.23** Easting: **2819365.08**
 County: **Pasquotank** City: **Elizabeth City**
 Date Started: **8/4/2010** Date Completed: **8/4/2010**
 Initial Water Level: **~4' BGS** Final Water Level:
 Date & Time (i): **8/4/2010 13:30** Date & Time (f):
 WBS #: **35742.1.1** State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
			Void Space							
2			SP Tan fine sand, fill, loose		30		8.7		610-5-1.5-4	
4			Saturated							
8			End of Boring							
<p>Notes: Cave in at 4 ft bgs.</p> <p>Field Screen conducted with FID. Results in parts per million (ppm).</p> <p>Depth in Feet</p>										

Well Construction Details

Drilling Contractor: **Solutions-IES, Inc.**
 Size of Borehole: **3.75"** TOC Elevation: **0**
 Completion: Casing Diameter:
 Total Depth: Casing Material:

Screen Interval:
 Screen 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: 610-6

Project Name: **Elizabeth City PSAs**

Solutions-IES Project Number: **3946.10A3.NDOT**

Client: **NCDOT**

Northing: **940148.6**

Easting: **2819395.73**

Project Location: **Elizabeth City** State: **NC**

County: **Pasquotank**

City: **Elizabeth City**

Site or Area: **610 E Elizabeth ST**

Date Started: **8/4/2010**

Date Completed: **8/4/2010**

Drilling Method: **Direct push**

Initial Water Level: **~4' BGS**

Final Water Level:

Sample Method: **Macrocore**

Date & Time (i): **8/4/2010 13:35**






Date & Time (f):

Logged by: **KD**

Checked by:

WBS #: **35742.1.1**

State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
			SP Tan fine sand, fill, loose		30		0.0		610-6-1-4	
4			End of Boring							
6										
8										

Notes:
 Field Screen 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: **0**

Completion: Casing Diameter:

Total Depth: Casing Material:

Screen Interval:

Screen Material:

Slot Size:



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Log of Soil Boring: 610-7

Project Name: **Elizabeth City PSAs**

Solutions-IES Project Number: **3946.10A3.NDOT**

Client: **NCDOT**

Northing: **940148.02**

Easting: **2819439.97**

Project Location: **Elizabeth City** State: **NC**

County: **Pasquotank**

City: **Elizabeth City**

Site or Area: **610 E Elizabeth ST**

Date Started: **8/4/2010**

Date Completed: **8/4/2010**

Drilling Method: **Direct push**

Initial Water Level: **~4' BGS**

Final Water Level: **4.90' BGS**

Sample Method: **Macrocore**

Date & Time (i): **8/4/2010 13:40**

Date & Time (f): **8/4/10 1400**

Logged by: **KD**

Checked by:

WBS #: **35742.1.1**

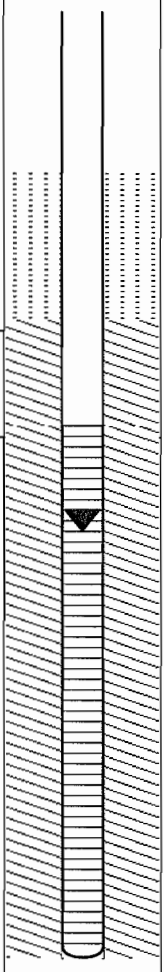
State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
2			Void Space							
			SM Dark brown silty sand, fill, loose		100		3.6		610-7-3-4	
4			End of Boring							
6										
8										
10										

Notes: Cave in at 4 ft bgs

Field Screen 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: **3.9' - 8.9' bgs**

Completion: **Temporary** Casing Diameter: **1"**

Screen Material: **Sch 40 PVC**

Total Depth: **8.90' bgs** Casing Material: **Sch 40 PVC**

Slot Size: **0.10"**



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Log of Soil Boring: 610-8

Project Name: **Elizabeth City PSAs**

Solutions-IES Project Number: **3946.10A3.NDOT**

Client: **NCDOT**

Northing: **940130.87**

Easting: **2819477.89**

Project Location: **Elizabeth City** State: **NC**

County: **Pasquotank**

City: **Elizabeth City**

Site or Area: **610 E Elizabeth ST**

Date Started: **8/4/2010**

Date Completed: **8/4/2010**

Drilling Method: **Direct push**

Initial Water Level: **~4' BGS**

Final Water Level:

Sample Method: **Macrocore**

Date & Time (i): **8/4/2010 14:05**





Date & Time (f):

Logged by: **KD**

Checked by:

WBS #: **35742.1.1**

State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
			Void Space							
			SP Tan, sand, fill, loose		30		12.6		610-8-1-4	
4			End of Boring							
6										
8										

Notes:
 Field Screen 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: **0**

Completion: Casing Diameter:

Total Depth: Casing Material:

Screen Interval:

Screen Material:

Slot Size:



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Log of Soil Boring: 610-9

Project Name: **Elizabeth City PSAs**

Solutions-IES Project Number: **3946.10A3.NDOT**

Client: **NCDOT**

Northing: **940150.6**

Easting: **2819506.23**

Project Location: **Elizabeth City** State: **NC**

County: **Pasquotank**

City: **Elizabeth City**

Site or Area: **610 E Elizabeth ST**

Date Started: **8/4/2010**

Date Completed: **8/4/2010**

Drilling Method: **Direct push**

Initial Water Level: **~4' BGS**

Final Water Level:

Sample Method: **Macrocore**

Date & Time (i): **8/4/2010 14:15**



Date & Time (f):

Logged by: **KD**

Checked by:

WBS #: **35742.1.1**

State Project #: **U-4438**

Depth		Lithology Sample Information					Laboratory Sample Information		Well Information	
Depth	Elevation	USCS Symbol	Description	Sample Interval	Recovery %	Blows / 0.5 FT	Field Screen	Sample Interval	Sample ID	Well Const.
0	0.00		Ground Surface							
			Concrete				NA			
2			Void Space							
			SP (Saturated) Tan sand, fill, loose, saturated		15		257.8		No Sample	
4			End of Boring							
6										
8										

Notes: No sample collected due to saturation.

Field Screen 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: **0**

Screen Interval:

Completion: Casing Diameter:

Screen Material:

Total Depth: Casing Material:

Slot Size:



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Log of Soil Boring: 610-10

Project Name: **Elizabeth City PSAs**

Solutions-IES Project Number: **3946.10A3.NDOT**

Client: **NCDOT**

Northing: **940125.93**

Easting: **2819522.55**

Project Location: **Elizabeth City** State: **NC**

County: **Pasquotank**

City: **Elizabeth City**

Site or Area: **610 E Elizabeth ST**

Date Started: **8/4/2010**

Date Completed: **8/4/2010**

Drilling Method: **Direct push**

Initial Water Level: **~4' BGS**

Final Water Level:

Sample Method: **Macrocore**

Date & Time (i): **8/4/2010 14:18**




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 ID	Well Const.
0	0.00		Ground Surface						
			Concrete				NA		
			SP Tan gravel sand, fill, loose, asphalt		20		818.1		
2			SP Tan gravel sand, fill, loose		20		2498	610-10-2-4	
4			End of Boring						
6									
8									

Notes:
 Field Screen 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: **0**

Completion: Casing Diameter:

Total Depth: Casing Material:

Screen Interval:

Screen Material:

Slot Size:



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APPENDIX F

LABORATORY ANALYTICAL REPORT



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

Project: NCDOT Elizabeth City PSA's - 610 E. Elizabeth St.
Project No.: WBS# 35742.1.1
Lab Submittal Date: 08/04/2010
Prism Work Order: 0080134

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:

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- LH High LCS recovery. Analyte not detected in the sample(s). No further action taken.
- M Matrix spike outside of the control limits.
- 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.

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Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
610-1	0080134-01	Water	08/02/10	08/04/10
610-1-2-4	0080134-02	Solid	08/02/10	08/04/10
610-2-0-2	0080134-03	Solid	08/02/10	08/04/10

Samples received in good condition at 3.6 degrees C unless otherwise noted.

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

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

Client Sample ID: 610-1
Prism Sample ID: 0080134-01
Prism Work Order: 0080134
Time Collected: 08/02/10 13:30
Time Submitted: 08/04/10 16:10

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	8/21/10 16:05	CGP	P0H0172
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/21/10 16:05	CGP	P0H0172
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/21/10 16:05	CGP	P0H0172
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/21/10 16:05	CGP	P0H0172
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/21/10 16:05	CGP	P0H0172
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/21/10 16:05	CGP	P0H0172
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/21/10 16:05	CGP	P0H0172
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/21/10 16:05	CGP	P0H0172
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/21/10 16:05	CGP	P0H0172
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/21/10 16:05	CGP	P0H0172
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/21/10 16:05	CGP	P0H0172
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/21/10 16:05	CGP	P0H0172
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/21/10 16:05	CGP	P0H0172
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/21/10 16:05	CGP	P0H0172
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/21/10 16:05	CGP	P0H0172
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/21/10 16:05	CGP	P0H0172
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/21/10 16:05	CGP	P0H0172
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/21/10 16:05	CGP	P0H0172
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/21/10 16:05	CGP	P0H0172
4-Nitrophenol	BRL	ug/L	50	2.6	1	8270D	8/21/10 16:05	CGP	P0H0172
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/21/10 16:05	CGP	P0H0172
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Aniline	BRL	ug/L	10	2.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/21/10 16:05	CGP	P0H0172
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/21/10 16:05	CGP	P0H0172
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/21/10 16:05	CGP	P0H0172
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172

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

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

Client Sample ID: 610-1
 Prism Sample ID: 0080134-01
 Prism Work Order: 0080134
 Time Collected: 08/02/10 13:30
 Time Submitted: 08/04/10 16:10

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	8/21/10 16:05	CGP	P0H0172
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/21/10 16:05	CGP	P0H0172
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/21/10 16:05	CGP	P0H0172
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/21/10 16:05	CGP	P0H0172
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/21/10 16:05	CGP	P0H0172
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/21/10 16:05	CGP	P0H0172
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/21/10 16:05	CGP	P0H0172
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/21/10 16:05	CGP	P0H0172
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/21/10 16:05	CGP	P0H0172
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/21/10 16:05	CGP	P0H0172
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/21/10 16:05	CGP	P0H0172
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/21/10 16:05	CGP	P0H0172
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/21/10 16:05	CGP	P0H0172
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/21/10 16:05	CGP	P0H0172
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/21/10 16:05	CGP	P0H0172
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Phenol	BRL	ug/L	10	2.2	1	8270D	8/21/10 16:05	CGP	P0H0172
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/21/10 16:05	CGP	P0H0172

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	72 %	26-139
2-Fluorobiphenyl	62 %	41-112
2-Fluorophenol	32 %	10-48
Nitrobenzene-d5	56 %	34-102
Phenol-d5	22 %	10-34
Terphenyl-d14	82 %	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 20:28	KLA	P0H0263
1,1,1-Trichloroethane	BRL	ug/L	1.0	0.063	1	8260B	8/11/10 20:28	KLA	P0H0263
1,1,2,2-Tetrachloroethane	BRL	ug/L	1.0	0.071	1	8260B	8/11/10 20:28	KLA	P0H0263
1,1,2-Trichloroethane	BRL	ug/L	1.0	0.17	1	8260B	8/11/10 20:28	KLA	P0H0263
1,1-Dichloroethane	BRL	ug/L	1.0	0.096	1	8260B	8/11/10 20:28	KLA	P0H0263
1,1-Dichloroethylene	BRL	ug/L	1.0	0.078	1	8260B	8/11/10 20:28	KLA	P0H0263
1,1-Dichloropropylene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 20:28	KLA	P0H0263

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

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

Client Sample ID: 610-1
 Prism Sample ID: 0080134-01
 Prism Work Order: 0080134
 Time Collected: 08/02/10 13:30
 Time Submitted: 08/04/10 16:10

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 20:28	KLA	P0H0263
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2-Dibromoethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2-Dichlorobenzene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2-Dichloroethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 20:28	KLA	P0H0263
1,2-Dichloropropane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 20:28	KLA	P0H0263
1,3,5-Trimethylbenzene	BRL	ug/L	1.0	0.057	1	8260B	8/11/10 20:28	KLA	P0H0263
1,3-Dichlorobenzene	BRL	ug/L	1.0	0.074	1	8260B	8/11/10 20:28	KLA	P0H0263
1,3-Dichloropropane	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 20:28	KLA	P0H0263
1,4-Dichlorobenzene	BRL	ug/L	1.0	0.068	1	8260B	8/11/10 20:28	KLA	P0H0263
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 20:28	KLA	P0H0263
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	8/11/10 20:28	KLA	P0H0263
2-Chlorotoluene	BRL	ug/L	1.0	0.038	1	8260B	8/11/10 20:28	KLA	P0H0263
4-Chlorotoluene	BRL	ug/L	1.0	0.053	1	8260B	8/11/10 20:28	KLA	P0H0263
4-Isopropyltoluene	BRL	ug/L	1.0	0.065	1	8260B	8/11/10 20:28	KLA	P0H0263
Acetone	15	ug/L	10	0.62	1	8260B	8/11/10 20:28	KLA	P0H0263
Acrolein	BRL	ug/L	100	1.1	1	8260B	8/11/10 20:28	KLA	P0H0263
Acrylonitrile	BRL	ug/L	100	0.86	1	8260B	8/11/10 20:28	KLA	P0H0263
Benzene	0.92 J	ug/L	1.0	0.072	1	8260B	8/11/10 20:28	KLA	P0H0263
Bromobenzene	BRL	ug/L	1.0	0.064	1	8260B	8/11/10 20:28	KLA	P0H0263
Bromochloromethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 20:28	KLA	P0H0263
Bromodichloromethane	BRL	ug/L	1.0	0.062	1	8260B	8/11/10 20:28	KLA	P0H0263
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/11/10 20:28	KLA	P0H0263
Bromomethane	BRL	ug/L	3.0	0.47	1	8260B	8/11/10 20:28	KLA	P0H0263
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/11/10 20:28	KLA	P0H0263
Carbon Tetrachloride	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 20:28	KLA	P0H0263
Chlorobenzene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 20:28	KLA	P0H0263
Chloroethane	BRL	ug/L	5.0	0.13	1	8260B	8/11/10 20:28	KLA	P0H0263
Chloroform	BRL	ug/L	1.0	0.089	1	8260B	8/11/10 20:28	KLA	P0H0263
Chloromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 20:28	KLA	P0H0263
cis-1,2-Dichloroethylene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 20:28	KLA	P0H0263
cis-1,3-Dichloropropylene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 20:28	KLA	P0H0263
Dibromochloromethane	BRL	ug/L	1.0	0.30	1	8260B	8/11/10 20:28	KLA	P0H0263
Dibromomethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 20:28	KLA	P0H0263
Dichlorodifluoromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 20:28	KLA	P0H0263
Ethylbenzene	BRL	ug/L	1.0	0.067	1	8260B	8/11/10 20:28	KLA	P0H0263
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/11/10 20:28	KLA	P0H0263
Isopropyl Ether	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 20:28	KLA	P0H0263
Isopropylbenzene (Cumene)	15	ug/L	1.0	0.072	1	8260B	8/11/10 20:28	KLA	P0H0263
m,p-Xylenes	BRL	ug/L	2.0	0.081	1	8260B	8/11/10 20:28	KLA	P0H0263
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/11/10 20:28	KLA	P0H0263
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/11/10 20:28	KLA	P0H0263
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/11/10 20:28	KLA	P0H0263

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

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

Client Sample ID: 610-1
 Prism Sample ID: 0080134-01
 Prism Work Order: 0080134
 Time Collected: 08/02/10 13:30
 Time Submitted: 08/04/10 16:10

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 20:28	KLA	P0H0263
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.070	1	8260B	8/11/10 20:28	KLA	P0H0263
Naphthalene	2.0	ug/L	1.0	0.098	1	8260B	8/11/10 20:28	KLA	P0H0263
n-Butylbenzene	4.2	ug/L	1.0	0.11	1	8260B	8/11/10 20:28	KLA	P0H0263
n-Propylbenzene	7.9	ug/L	1.0	0.060	1	8260B	8/11/10 20:28	KLA	P0H0263
o-Xylene	BRL	ug/L	1.0	0.046	1	8260B	8/11/10 20:28	KLA	P0H0263
sec-Butylbenzene	7.3	ug/L	1.0	0.087	1	8260B	8/11/10 20:28	KLA	P0H0263
Styrene	BRL	ug/L	1.0	0.047	1	8260B	8/11/10 20:28	KLA	P0H0263
tert-Butylbenzene	0.92 J	ug/L	1.0	0.080	1	8260B	8/11/10 20:28	KLA	P0H0263
Tetrachloroethylene	BRL	ug/L	1.0	0.069	1	8260B	8/11/10 20:28	KLA	P0H0263
Toluene	BRL	ug/L	1.0	0.042	1	8260B	8/11/10 20:28	KLA	P0H0263
trans-1,2-Dichloroethylene	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 20:28	KLA	P0H0263
trans-1,3-Dichloropropylene	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 20:28	KLA	P0H0263
Trichloroethylene	BRL	ug/L	2.0	0.054	1	8260B	8/11/10 20:28	KLA	P0H0263
Trichlorofluoromethane	BRL	ug/L	2.0	0.088	1	8260B	8/11/10 20:28	KLA	P0H0263
Vinyl acetate	BRL	ug/L	20	0.10	1	8260B	8/11/10 20:28	KLA	P0H0263
Vinyl chloride	BRL	ug/L	2.0	0.16	1	8260B	8/11/10 20:28	KLA	P0H0263

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	105 %	80-124
Dibromofluoromethane	96 %	75-129
Toluene-d8	100 %	77-123

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

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

Client Sample ID: 610-1-2-4
 Prism Sample ID: 0080134-02
 Prism Work Order: 0080134
 Time Collected: 08/02/10 18:35
 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	45	mg/kg dry	9.1	1.5	1	*8015C	8/12/10 12:21	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			79 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.5	0.71	50	*8015C	8/9/10 18:27	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			112 %		55-129	
General Chemistry Parameters									
% Solids	76.1	% by Weight	0.100	0.100	1	*SM2540 G	8/6/10 14:30	JAB	P0H0194

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

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

Client Sample ID: 610-2-0-2
 Prism Sample ID: 0080134-03
 Prism Work Order: 0080134
 Time Collected: 08/02/10 18:40
 Time Submitted: 08/04/10 16:10

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

Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	8/12/10 12:57	JMV	P0H0245
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			77 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.6	0.72	50	*8015C	8/9/10 19:05	HPE	P0H0204
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			81 %		55-129	

General Chemistry Parameters

% Solids	79.4	% by Weight	0.100	0.100	1	*SM2540 G	8/6/10 14:30	JAB	P0H0194
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

Volatile Organic Compounds by GC/MS - Quality Control

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

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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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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			
Matrix Spike (P0H0263-MS1)										
Source: 0080134-09 Prepared & Analyzed: 08/11/10										
1,1-Dichloroethylene	513	10	ug/L	500	BRL	103	65-162			
Benzene	534	10	ug/L	500	BRL	107	73-131			
Carbon Tetrachloride	567	20	ug/L	500	BRL	113	66-149			
Chlorobenzene	506	10	ug/L	500	BRL	101	76-119			
Tetrachloroethylene	502	10	ug/L	500	BRL	100	76-130			
Toluene	529	10	ug/L	500	BRL	106	72-135			
Trichloroethylene	473	20	ug/L	500	BRL	95	72-133			
Surrogate: 4-Bromofluorobenzene	23.8		ug/L	25.0		95	80-124			
Surrogate: Dibromofluoromethane	24.6		ug/L	25.0		98	75-129			
Surrogate: Toluene-d8	22.6		ug/L	25.0		90	77-123			

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

Project: NCDOT Elizabeth City PSA's -
610 E. Elizabeth St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080134
Time Submitted: 8/4/10 4:10:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0263 - 5030B

Matrix Spike Dup (P0H0263-MSD1)

Source: 0080134-09

Prepared & Analyzed: 08/11/10

1,1-Dichloroethylene	530	10	ug/L	500	BRL	106	65-162	3	20	
Benzene	529	10	ug/L	500	BRL	106	73-131	1	17	
Carbon Tetrachloride	565	20	ug/L	500	BRL	113	66-149	0.3	23	
Chlorobenzene	487	10	ug/L	500	BRL	97	76-119	4	20	
Tetrachloroethylene	485	10	ug/L	500	BRL	97	76-130	3	20	
Toluene	527	10	ug/L	500	BRL	105	72-135	0.3	18	
Trichloroethylene	462	20	ug/L	500	BRL	92	72-133	2	17	
Surrogate: 4-Bromofluorobenzene	24.7		ug/L	25.0		99	80-124			
Surrogate: Dibromofluoromethane	24.7		ug/L	25.0		99	75-129			
Surrogate: Toluene-d8	22.4		ug/L	25.0		90	77-123			

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Project: NCDOT Elizabeth City PSA's -
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 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
Blank (P0H0172-BLK1)										
Prepared: 08/06/10 Analyzed: 08/21/10										
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	3.80	10	ug/L							J
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 -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0172 - 3510C MS

Blank (P0H0172-BLK1)				Prepared: 08/06/10 Analyzed: 08/21/10						
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	78.4		ug/L	100		78	26-139			
Surrogate: 2-Fluorobiphenyl	40.1		ug/L	50.0		80	41-112			
Surrogate: 2-Fluorophenol	52.6		ug/L	100		53	10-48			SR
Surrogate: Nitrobenzene-d5	42.9		ug/L	50.0		86	34-102			
Surrogate: Phenol-d5	32.1		ug/L	100		32	10-34			
Surrogate: Terphenyl-d14	49.6		ug/L	50.0		99	31-165			

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Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
LCS (P0H0172-BS1)										
				Prepared: 08/06/10 Analyzed: 08/21/10						
1,2,4-Trichlorobenzene	28.5	10	ug/L	50.0		57	39-102			
1,2-Dichlorobenzene	27.6	10	ug/L	50.0		55	46-90			
1,3-Dichlorobenzene	26.7	10	ug/L	50.0		53	31-100			
1,4-Dichlorobenzene	27.6	10	ug/L	50.0		55	45-89			
2,4,5-Trichlorophenol	41.3	10	ug/L	50.0		83	60-108			
2,4,6-Trichlorophenol	42.1	10	ug/L	50.0		84	48-118			
2,4-Dichlorophenol	39.6	10	ug/L	50.0		79	38-107			
2,4-Dimethylphenol	36.9	10	ug/L	50.0		74	26-108			
2,4-Dinitrophenol	32.0	10	ug/L	50.0		64	10-157			
2,4-Dinitrotoluene	45.1	10	ug/L	50.0		90	61-139			
2,6-Dinitrotoluene	45.1	10	ug/L	50.0		90	55-141			
2-Chloronaphthalene	35.0	10	ug/L	50.0		70	46-114			
2-Chlorophenol	35.9	10	ug/L	50.0		72	39-80			
2-Methylnaphthalene	34.3	10	ug/L	50.0		69	39-107			
2-Methylphenol	30.3	10	ug/L	50.0		61	24-73			
2-Nitroaniline	44.4	10	ug/L	50.0		89	65-123			
2-Nitrophenol	40.2	10	ug/L	50.0		80	40-111			
3,3'-Dichlorobenzidine	45.2	10	ug/L	50.0		90	25-203			
3/4-Methylphenol	28.3	10	ug/L	50.0		57	22-84			
3-Nitroaniline	50.6	10	ug/L	50.0		101	66-131			
4,6-Dinitro-2-methylphenol	40.4	10	ug/L	50.0		81	31-155			
4-Bromophenyl phenyl ether	44.7	10	ug/L	50.0		89	50-131			
4-Chloro-3-methylphenol	39.8	10	ug/L	50.0		80	48-94			
4-Chloroaniline	70.3	10	ug/L	50.0		141	45-120			LH
4-Chlorophenyl phenyl ether	42.8	10	ug/L	50.0		86	55-125			
4-Nitroaniline	52.4	10	ug/L	50.0		105	63-138			
4-Nitrophenol	13.0	50	ug/L	50.0		26	10-89			J
Acenaphthene	38.3	10	ug/L	50.0		77	53-118			
Acenaphthylene	38.2	10	ug/L	50.0		76	52-121			
Aniline	79.0	10	ug/L	50.0		158	24-105			LH
Anthracene	44.4	10	ug/L	50.0		89	59-138			
Azobenzene	44.2	10	ug/L	50.0		88	65-123			
Benzo(a)anthracene	44.5	10	ug/L	50.0		89	63-138			
Benzo(a)pyrene	42.2	10	ug/L	50.0		84	67-142			
Benzo(b)fluoranthene	40.9	10	ug/L	50.0		82	58-151			
Benzo(g,h,i)perylene	45.3	10	ug/L	50.0		91	47-151			
Benzo(k)fluoranthene	42.8	10	ug/L	50.0		86	45-155			
Benzoic Acid	BRL	100	ug/L	50.0			10-125			P
Benzyl alcohol	27.5	10	ug/L	50.0		55	25-77			
bis(2-Chloroethoxy)methane	42.4	10	ug/L	50.0		85	42-119			
Bis(2-Chloroethyl)ether	40.5	10	ug/L	50.0		81	38-109			
Bis(2-chloroisopropyl)ether	39.0	10	ug/L	50.0		78	31-117			
Bis(2-Ethylhexyl)phthalate	52.2	10	ug/L	50.0		104	52-165			
Butyl benzyl phthalate	51.9	10	ug/L	50.0		104	51-162			
Chrysene	42.1	10	ug/L	50.0		84	59-137			
Dibenzo(a,h)anthracene	42.4	10	ug/L	50.0		85	43-161			

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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
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Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
LCS (P0H0172-BS1)										
				Prepared: 08/06/10 Analyzed: 08/21/10						
Dibenzofuran	39.9	10	ug/L	50.0		80	63-115			
Diethyl phthalate	47.0	10	ug/L	50.0		94	54-135			
Dimethyl phthalate	45.9	10	ug/L	50.0		92	46-135			
Di-n-butyl phthalate	49.8	10	ug/L	50.0		100	51-142			
Di-n-octyl phthalate	45.9	10	ug/L	50.0		92	54-160			
Fluoranthene	42.9	10	ug/L	50.0		86	52-137			
Fluorene	40.7	10	ug/L	50.0		81	56-122			
Hexachlorobenzene	41.4	10	ug/L	50.0		83	57-129			
Hexachlorobutadiene	27.1	10	ug/L	50.0		54	34-110			
Hexachlorocyclopentadiene	24.7	10	ug/L	50.0		49	27-120			
Hexachloroethane	25.5	10	ug/L	50.0		51	37-98			
Indeno(1,2,3-cd)pyrene	43.4	10	ug/L	50.0		87	24-172			
Isophorone	47.3	10	ug/L	50.0		95	44-117			
Naphthalene	33.4	10	ug/L	50.0		67	37-108			
Nitrobenzene	40.4	10	ug/L	50.0		81	29-120			
N-Nitroso-di-n-propylamine	39.2	10	ug/L	50.0		78	42-115			
N-Nitrosodiphenylamine	58.0	10	ug/L	50.0		116	69-142			
Pentachlorophenol	25.2	10	ug/L	50.0		50	42-156			
Phenanthrene	42.9	10	ug/L	50.0		86	60-133			
Phenol	13.8	10	ug/L	50.0		28	10-47			
Pyrene	46.0	10	ug/L	50.0		92	50-152			
Surrogate: 2,4,6-Tribromophenol	90.3		ug/L	100		90	26-139			
Surrogate: 2-Fluorobiphenyl	39.6		ug/L	50.0		79	41-112			
Surrogate: 2-Fluorophenol	40.3		ug/L	100		40	10-48			
Surrogate: Nitrobenzene-d5	40.3		ug/L	50.0		81	34-102			
Surrogate: Phenol-d5	23.7		ug/L	100		24	10-34			
Surrogate: Terphenyl-d14	40.9		ug/L	50.0		82	31-165			

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

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
LCS Dup (P0H0172-BSD1)										
					Prepared: 08/06/10 Analyzed: 08/21/10					
1,2,4-Trichlorobenzene	30.4	10	ug/L	50.0	61	39-102	7	200		
1,2-Dichlorobenzene	30.4	10	ug/L	50.0	61	46-90	10	200		
1,3-Dichlorobenzene	29.6	10	ug/L	50.0	59	31-100	10	200		
1,4-Dichlorobenzene	30.1	10	ug/L	50.0	60	45-89	9	200		
2,4,5-Trichlorophenol	43.8	10	ug/L	50.0	88	60-108	6	200		
2,4,6-Trichlorophenol	45.1	10	ug/L	50.0	90	48-118	7	200		
2,4-Dichlorophenol	41.4	10	ug/L	50.0	83	38-107	4	200		
2,4-Dimethylphenol	37.7	10	ug/L	50.0	75	26-108	2	200		
2,4-Dinitrophenol	34.6	10	ug/L	50.0	69	10-157	8	200		
2,4-Dinitrotoluene	48.8	10	ug/L	50.0	98	61-139	8	200		
2,6-Dinitrotoluene	48.8	10	ug/L	50.0	98	55-141	8	200		
2-Chloronaphthalene	36.4	10	ug/L	50.0	73	46-114	4	200		
2-Chlorophenol	37.0	10	ug/L	50.0	74	39-80	3	200		
2-Methylnaphthalene	36.8	10	ug/L	50.0	74	39-107	7	200		
2-Methylphenol	30.7	10	ug/L	50.0	61	24-73	1	200		
2-Nitroaniline	47.4	10	ug/L	50.0	95	65-123	6	200		
2-Nitrophenol	42.6	10	ug/L	50.0	85	40-111	6	200		
3,3'-Dichlorobenzidine	53.8	10	ug/L	50.0	108	25-203	17	200		
3/4-Methylphenol	27.8	10	ug/L	50.0	56	22-84	2	200		
3-Nitroaniline	55.6	10	ug/L	50.0	111	66-131	9	200		
4,6-Dinitro-2-methylphenol	42.5	10	ug/L	50.0	85	31-155	5	200		
4-Bromophenyl phenyl ether	46.1	10	ug/L	50.0	92	50-131	3	200		
4-Chloro-3-methylphenol	41.4	10	ug/L	50.0	83	48-94	4	200		
4-Chloroaniline	76.0	10	ug/L	50.0	152	45-120	8	200		LH
4-Chlorophenyl phenyl ether	45.3	10	ug/L	50.0	91	55-125	6	200		
4-Nitroaniline	60.8	10	ug/L	50.0	122	63-138	15	200		
4-Nitrophenol	12.8	50	ug/L	50.0	26	10-89	1	200		J
Acenaphthene	40.9	10	ug/L	50.0	82	53-118	7	200		
Acenaphthylene	42.0	10	ug/L	50.0	84	52-121	9	200		
Aniline	89.7	10	ug/L	50.0	179	24-105	13	200		LH
Anthracene	47.8	10	ug/L	50.0	96	59-138	7	200		
Azobenzene	46.2	10	ug/L	50.0	92	65-123	4	200		
Benzo(a)anthracene	46.8	10	ug/L	50.0	94	63-138	5	200		
Benzo(a)pyrene	45.3	10	ug/L	50.0	91	67-142	7	200		
Benzo(b)fluoranthene	43.6	10	ug/L	50.0	87	58-151	6	200		
Benzo(g,h,i)perylene	49.1	10	ug/L	50.0	98	47-151	8	200		
Benzo(k)fluoranthene	43.7	10	ug/L	50.0	87	45-155	2	200		
Benzoic Acid	BRL	100	ug/L	50.0		10-125		200		P
Benzyl alcohol	27.2	10	ug/L	50.0	54	25-77	1	200		
bis(2-Chloroethoxy)methane	45.1	10	ug/L	50.0	90	42-119	6	200		
Bis(2-Chloroethyl)ether	43.0	10	ug/L	50.0	86	38-109	6	200		
Bis(2-chloroisopropyl)ether	42.4	10	ug/L	50.0	85	31-117	8	200		
Bis(2-Ethylhexyl)phthalate	54.5	10	ug/L	50.0	109	52-165	4	200		
Butyl benzyl phthalate	53.2	10	ug/L	50.0	106	51-162	3	200		
Chrysene	45.4	10	ug/L	50.0	91	59-137	8	200		
Dibenzo(a,h)anthracene	46.6	10	ug/L	50.0	93	43-161	9	200		

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
LCS Dup (P0H0172-BSD1)										
					Prepared: 08/06/10 Analyzed: 08/21/10					
Dibenzofuran	42.7	10	ug/L	50.0		85	63-115	7	200	
Diethyl phthalate	50.6	10	ug/L	50.0		101	54-135	7	200	
Dimethyl phthalate	48.9	10	ug/L	50.0		98	46-135	6	200	
Di-n-butyl phthalate	54.5	10	ug/L	50.0		109	51-142	9	200	
Di-n-octyl phthalate	45.6	10	ug/L	50.0		91	54-160	0.7	200	
Fluoranthene	47.4	10	ug/L	50.0		95	52-137	10	200	
Fluorene	44.0	10	ug/L	50.0		88	56-122	8	200	
Hexachlorobenzene	44.0	10	ug/L	50.0		88	57-129	6	200	
Hexachlorobutadiene	29.8	10	ug/L	50.0		60	34-110	9	200	
Hexachlorocyclopentadiene	27.5	10	ug/L	50.0		55	27-120	11	200	
Hexachloroethane	28.5	10	ug/L	50.0		57	37-98	11	200	
Indeno(1,2,3-cd)pyrene	50.9	10	ug/L	50.0		102	24-172	16	200	
Isophorone	49.8	10	ug/L	50.0		100	44-117	5	200	
Naphthalene	36.1	10	ug/L	50.0		72	37-108	8	200	
Nitrobenzene	43.0	10	ug/L	50.0		86	29-120	6	200	
N-Nitroso-di-n-propylamine	41.7	10	ug/L	50.0		83	42-115	6	200	
N-Nitrosodiphenylamine	60.4	10	ug/L	50.0		121	69-142	4	200	
Pentachlorophenol	28.1	10	ug/L	50.0		56	42-156	11	200	
Phenanthrene	45.7	10	ug/L	50.0		91	60-133	6	200	
Phenol	13.4	10	ug/L	50.0		27	10-47	3	200	
Pyrene	45.2	10	ug/L	50.0		90	50-152	2	200	
Surrogate: 2,4,6-Tribromophenol	98.7		ug/L	100		99	26-139			
Surrogate: 2-Fluorobiphenyl	42.7		ug/L	50.0		85	41-112			
Surrogate: 2-Fluorophenol	39.1		ug/L	100		39	10-48			
Surrogate: Nitrobenzene-d5	43.0		ug/L	50.0		86	34-102			
Surrogate: Phenol-d5	22.3		ug/L	100		22	10-34			
Surrogate: Terphenyl-d14	41.0		ug/L	50.0		82	31-165			

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
Matrix Spike (P0H0172-MS1)										
Source: 0080134-01 Prepared: 08/06/10 Analyzed: 08/21/10										
1,2,4-Trichlorobenzene	54.2	20	ug/L	100	BRL	54	44-100			
1,2-Dichlorobenzene	52.8	20	ug/L	100	BRL	53	42-99			
1,3-Dichlorobenzene	51.4	20	ug/L	100	BRL	51	35-101			
1,4-Dichlorobenzene	52.6	20	ug/L	100	BRL	53	43-97			
2,4,5-Trichlorophenol	86.5	20	ug/L	100	BRL	87	51-122			
2,4,6-Trichlorophenol	82.2	20	ug/L	100	BRL	82	46-117			
2,4-Dichlorophenol	71.0	20	ug/L	100	BRL	71	42-108			
2,4-Dimethylphenol	73.0	20	ug/L	100	BRL	73	13-122			
2,4-Dinitrophenol	71.2	20	ug/L	100	BRL	71	10-166			
2,4-Dinitrotoluene	92.8	20	ug/L	100	BRL	93	64-135			
2,6-Dinitrotoluene	92.8	20	ug/L	100	BRL	93	50-146			
2-Chloronaphthalene	73.0	20	ug/L	100	BRL	73	46-114			
2-Chlorophenol	61.7	20	ug/L	100	BRL	62	36-94			
2-Methylnaphthalene	68.5	20	ug/L	100	BRL	69	36-115			
2-Methylphenol	61.6	20	ug/L	100	BRL	62	27-92			
2-Nitroaniline	93.0	20	ug/L	100	BRL	93	51-139			
2-Nitrophenol	68.9	20	ug/L	100	BRL	69	43-108			
3,3'-Dichlorobenzidine	103	20	ug/L	100	BRL	103	10-214			
3/4-Methylphenol	61.2	20	ug/L	100	BRL	61	22-84			
3-Nitroaniline	110	20	ug/L	100	BRL	110	50-145			
4,6-Dinitro-2-methylphenol	87.1	20	ug/L	100	BRL	87	25-152			
4-Bromophenyl phenyl ether	95.2	20	ug/L	100	BRL	95	52-128			
4-Chloro-3-methylphenol	86.5	20	ug/L	100	BRL	86	44-110			
4-Chloroaniline	131	20	ug/L	100	BRL	131	10-156			
4-Chlorophenyl phenyl ether	89.8	20	ug/L	100	BRL	90	55-125			
4-Nitroaniline	121	20	ug/L	100	BRL	121	39-159			
4-Nitrophenol	35.2	100	ug/L	100	BRL	35	10-105			J
Acenaphthene	83.1	20	ug/L	100	BRL	83	55-117			
Acenaphthylene	82.3	20	ug/L	100	BRL	82	52-121			
Aniline	159	20	ug/L	100	BRL	159	11-124			M
Anthracene	95.7	20	ug/L	100	BRL	96	60-136			
Azobenzene	95.3	20	ug/L	100	BRL	95	50-135			
Benzo(a)anthracene	93.8	20	ug/L	100	BRL	94	64-135			
Benzo(a)pyrene	89.6	20	ug/L	100	BRL	90	68-136			
Benzo(b)fluoranthene	86.9	20	ug/L	100	BRL	87	61-149			
Benzo(g,h,i)perylene	97.7	20	ug/L	100	BRL	98	47-151			
Benzo(k)fluoranthene	85.0	20	ug/L	100	BRL	85	45-148			
Benzoic Acid	BRL	200	ug/L	100	BRL		10-125			P
Benzyl alcohol	58.8	20	ug/L	100	BRL	59	30-97			
bis(2-Chloroethoxy)methane	73.6	20	ug/L	100	BRL	74	43-119			
Bis(2-Chloroethyl)ether	66.5	20	ug/L	100	BRL	66	36-115			
Bis(2-chloroisopropyl)ether	68.1	20	ug/L	100	BRL	68	36-113			
Bis(2-Ethylhexyl)phthalate	112	20	ug/L	100	BRL	112	50-168			
Butyl benzyl phthalate	111	20	ug/L	100	BRL	111	52-166			
Chrysene	90.4	20	ug/L	100	BRL	90	62-135			
Dibenzo(a,h)anthracene	93.8	20	ug/L	100	BRL	94	45-155			

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0172 - 3510C MS

Matrix Spike (P0H0172-MS1)	Source: 0080134-01		Prepared: 08/06/10		Analyzed: 08/21/10		
Dibenzofuran	86.2	20	ug/L	100	BRL	86	58-119
Diethyl phthalate	101	20	ug/L	100	BRL	101	55-137
Dimethyl phthalate	95.4	20	ug/L	100	BRL	95	46-135
Di-n-butyl phthalate	109	20	ug/L	100	BRL	109	53-141
Di-n-octyl phthalate	95.2	20	ug/L	100	BRL	95	48-166
Fluoranthene	95.7	20	ug/L	100	BRL	96	51-136
Fluorene	88.6	20	ug/L	100	BRL	89	57-121
Hexachlorobenzene	87.7	20	ug/L	100	BRL	88	55-131
Hexachlorobutadiene	53.3	20	ug/L	100	BRL	53	39-110
Hexachlorocyclopentadiene	52.2	20	ug/L	100	BRL	52	26-122
Hexachloroethane	47.3	20	ug/L	100	BRL	47	37-98
Indeno(1,2,3-cd)pyrene	102	20	ug/L	100	BRL	102	14-177
Isophorone	86.6	20	ug/L	100	BRL	87	49-113
Naphthalene	62.7	20	ug/L	100	BRL	63	38-109
Nitrobenzene	70.5	20	ug/L	100	BRL	71	34-117
N-Nitroso-di-n-propylamine	68.2	20	ug/L	100	BRL	68	44-115
N-Nitrosodiphenylamine	122	20	ug/L	100	BRL	122	57-156
Pentachlorophenol	56.4	20	ug/L	100	BRL	56	17-167
Phenanthrene	93.9	20	ug/L	100	BRL	94	62-131
Phenol	37.9	20	ug/L	100	BRL	38	10-68
Pyrene	92.9	20	ug/L	100	BRL	93	46-156
Surrogate: 2,4,6-Tribromophenol	189		ug/L	200		94	26-139
Surrogate: 2-Fluorobiphenyl	76.0		ug/L	100		76	41-112
Surrogate: 2-Fluorophenol	91.3		ug/L	200		46	10-48
Surrogate: Nitrobenzene-d5	69.1		ug/L	100		69	34-102
Surrogate: Phenol-d5	69.0		ug/L	200		35	10-34
Surrogate: Terphenyl-d14	82.0		ug/L	100		82	31-165

SR

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

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 P0H0172 - 3510C MS										
Matrix Spike Dup (P0H0172-MSD1)										
Source: 0080134-01 Prepared: 08/06/10 Analyzed: 08/21/10										
1,2,4-Trichlorobenzene	54.7	20	ug/L	100	BRL	55	44-100	0.9	30	
1,2-Dichlorobenzene	52.8	20	ug/L	100	BRL	53	42-99	0.08	34	
1,3-Dichlorobenzene	51.1	20	ug/L	100	BRL	51	35-101	0.6	36	
1,4-Dichlorobenzene	52.5	20	ug/L	100	BRL	52	43-97	0.2	35	
2,4,5-Trichlorophenol	85.8	20	ug/L	100	BRL	86	51-122	0.9	22	
2,4,6-Trichlorophenol	81.3	20	ug/L	100	BRL	81	46-117	1	30	
2,4-Dichlorophenol	72.2	20	ug/L	100	BRL	72	42-108	2	33	
2,4-Dimethylphenol	74.0	20	ug/L	100	BRL	74	13-122	1	36	
2,4-Dinitrophenol	76.0	20	ug/L	100	BRL	76	10-166	6	41	
2,4-Dinitrotoluene	95.0	20	ug/L	100	BRL	95	64-135	2	24	
2,6-Dinitrotoluene	95.0	20	ug/L	100	BRL	95	50-146	2	28	
2-Chloronaphthalene	71.0	20	ug/L	100	BRL	71	46-114	3	30	
2-Chlorophenol	62.0	20	ug/L	100	BRL	62	36-94	0.6	37	
2-Methylnaphthalene	68.7	20	ug/L	100	BRL	69	36-115	0.3	33	
2-Methylphenol	61.6	20	ug/L	100	BRL	62	27-92	0.03	36	
2-Nitroaniline	94.1	20	ug/L	100	BRL	94	51-139	1	24	
2-Nitrophenol	69.2	20	ug/L	100	BRL	69	43-108	0.6	33	
3,3'-Dichlorobenzidine	105	20	ug/L	100	BRL	105	10-214	1	34	
3/4-Methylphenol	60.8	20	ug/L	100	BRL	61	22-84	0.5	30	
3-Nitroaniline	111	20	ug/L	100	BRL	111	50-145	1	24	
4,6-Dinitro-2-methylphenol	88.2	20	ug/L	100	BRL	88	25-152	1	35	
4-Bromophenyl phenyl ether	95.4	20	ug/L	100	BRL	95	52-128	0.3	21	
4-Chloro-3-methylphenol	88.7	20	ug/L	100	BRL	89	44-110	3	25	
4-Chloroaniline	133	20	ug/L	100	BRL	133	10-156	2	38	
4-Chlorophenyl phenyl ether	90.1	20	ug/L	100	BRL	90	55-125	0.3	29	
4-Nitroaniline	124	20	ug/L	100	BRL	124	39-159	2	29	
4-Nitrophenol	36.2	100	ug/L	100	BRL	36	10-105	3	40	J
Acenaphthene	83.2	20	ug/L	100	BRL	83	55-117	0.07	33	
Acenaphthylene	81.8	20	ug/L	100	BRL	82	52-121	0.6	30	
Aniline	158	20	ug/L	100	BRL	158	11-124	0.4	35	M
Anthracene	95.5	20	ug/L	100	BRL	96	60-136	0.2	27	
Azobenzene	95.1	20	ug/L	100	BRL	95	50-135	0.1	34	
Benzo(a)anthracene	94.2	20	ug/L	100	BRL	94	64-135	0.4	18	
Benzo(a)pyrene	90.8	20	ug/L	100	BRL	91	68-136	1	21	
Benzo(b)fluoranthene	85.7	20	ug/L	100	BRL	86	61-149	1	34	
Benzo(g,h,i)perylene	98.3	20	ug/L	100	BRL	98	47-151	0.5	27	
Benzo(k)fluoranthene	85.4	20	ug/L	100	BRL	85	45-148	0.5	39	
Benzoic Acid	BRL	200	ug/L	100	BRL		10-125		51	P
Benzyl alcohol	58.7	20	ug/L	100	BRL	59	30-97	0.2	37	
bis(2-Chloroethoxy)methane	74.5	20	ug/L	100	BRL	75	43-119	1	30	
Bis(2-Chloroethyl)ether	65.9	20	ug/L	100	BRL	66	36-115	0.9	33	
Bis(2-chloroisopropyl)ether	67.7	20	ug/L	100	BRL	68	36-113	0.5	34	
Bis(2-Ethylhexyl)phthalate	113	20	ug/L	100	BRL	113	50-168	1	21	
Butyl benzyl phthalate	110	20	ug/L	100	BRL	110	52-166	1	23	
Chrysene	88.7	20	ug/L	100	BRL	89	62-135	2	22	
Dibenzo(a,h)anthracene	96.2	20	ug/L	100	BRL	96	45-155	3	28	

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080134
 Time Submitted: 8/4/10 4:10:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0172 - 3510C MS

Matrix Spike Dup (P0H0172-MSD1)	Source: 0080134-01		Prepared: 08/06/10		Analyzed: 08/21/10					
Dibenzofuran	86.0	20	ug/L	100	BRL	86	58-119	0.2	23	
Diethyl phthalate	101	20	ug/L	100	BRL	101	55-137	0.3	22	
Dimethyl phthalate	95.9	20	ug/L	100	BRL	96	46-135	0.5	25	
Di-n-butyl phthalate	109	20	ug/L	100	BRL	109	53-141	0.3	24	
Di-n-octyl phthalate	95.5	20	ug/L	100	BRL	95	48-166	0.3	21	
Fluoranthene	96.0	20	ug/L	100	BRL	96	51-136	0.3	26	
Fluorene	89.1	20	ug/L	100	BRL	89	57-121	0.5	30	
Hexachlorobenzene	88.3	20	ug/L	100	BRL	88	55-131	0.7	29	
Hexachlorobutadiene	53.6	20	ug/L	100	BRL	54	39-110	0.6	35	
Hexachlorocyclopentadiene	51.6	20	ug/L	100	BRL	52	26-122	1	36	
Hexachloroethane	43.9	20	ug/L	100	BRL	44	37-98	7	37	
Indeno(1,2,3-cd)pyrene	101	20	ug/L	100	BRL	101	14-177	0.9	34	
Isophorone	87.5	20	ug/L	100	BRL	87	49-113	1	27	
Naphthalene	63.1	20	ug/L	100	BRL	63	38-109	0.7	35	
Nitrobenzene	71.3	20	ug/L	100	BRL	71	34-117	1	34	
N-Nitroso-di-n-propylamine	68.5	20	ug/L	100	BRL	68	44-115	0.4	33	
N-Nitrosodiphenylamine	122	20	ug/L	100	BRL	122	57-156	0.6	26	
Pentachlorophenol	58.4	20	ug/L	100	BRL	58	17-167	3	36	
Phenanthrene	93.7	20	ug/L	100	BRL	94	62-131	0.2	23	
Phenol	38.1	20	ug/L	100	BRL	38	10-68	0.5	43	
Pyrene	90.1	20	ug/L	100	BRL	90	46-156	3	31	
Surrogate: 2,4,6-Tribromophenol	194		ug/L	200		97	26-139			
Surrogate: 2-Fluorobiphenyl	75.2		ug/L	100		75	41-112			
Surrogate: 2-Fluorophenol	91.6		ug/L	200		46	10-48			
Surrogate: Nitrobenzene-d5	69.5		ug/L	100		70	34-102			
Surrogate: Phenol-d5	69.2		ug/L	200		35	10-34			SR
Surrogate: Terphenyl-d14	79.9		ug/L	100		80	31-165			

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

Project: NCDOT Elizabeth City PSA's -
610 E. Elizabeth St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080134
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			
Matrix Spike (P0H0204-MS1)										
Source: 0080134-02										
Prepared & Analyzed: 08/09/10										
Gasoline Range Organics	56.4	6.6	mg/kg dry	65.7	BRL	86	57-113			
Surrogate: a,a,a-Trifluorotoluene	6.70		mg/kg dry	6.57		102	55-129			
Matrix Spike Dup (P0H0204-MSD1)										
Source: 0080134-02										
Prepared & Analyzed: 08/09/10										
Gasoline Range Organics	57.9	6.6	mg/kg dry	65.7	BRL	88	57-113	3	23	
Surrogate: a,a,a-Trifluorotoluene	6.96		mg/kg dry	6.57		106	55-129			

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

Project: NCDOT Elizabeth City PSA's -
610 E. Elizabeth St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080134
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: <i>o</i> -Terphenyl	1.23		mg/kg wet	1.60		77	49-124			
LCS (P0H0245-BS1)										
					Prepared: 08/10/10 Analyzed: 08/12/10					
Diesel Range Organics	62.0	7.0	mg/kg wet	80.0		78	55-109			
Surrogate: <i>o</i> -Terphenyl	1.76		mg/kg wet	1.60		110	49-124			
LCS Dup (P0H0245-BSD1)										
					Prepared: 08/10/10 Analyzed: 08/12/10					
Diesel Range Organics	65.7	7.0	mg/kg wet	80.0		82	55-109	6	200	
Surrogate: <i>o</i> -Terphenyl	1.76		mg/kg wet	1.60		110	49-124			

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

Project: NCDOT Elizabeth City PSA's -
610 E. Elizabeth St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080134
Time Submitted: 8/4/10 4:10:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0H0194 - NO PREP

Duplicate (P0H0194-DUP1) **Source: 0080134-06** Prepared & Analyzed: 08/06/10

% Solids	90.7	0.100	% by Weight		90.8			0.1	20	
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Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0080134-02	P0H0245	25.16 g	1 mL	08/10/10
0080134-03	P0H0245	25.1 g	1 mL	08/10/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0080134-02	P0H0204	5.99 g	5 mL	08/09/10
0080134-03	P0H0204	5.65 g	5 mL	08/09/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0080134-02	P0H0194	30 g	30 mL	08/06/10
0080134-03	P0H0194	30 g	30 mL	08/06/10

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date
0080134-01	P0H0172	1000 mL	1 mL	08/06/10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date
0080134-01	P0H0263	10 mL	10 mL	08/11/10



Full-Service Analytical & Environmental Solutions

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

Client Company Name: Solutions-IES
Report To/Contact Name: Sody Overmyer
Reporting Address: 401 Newell Rd
Raleigh, NC 27607

Phone: 919-873-1060 Fax (Yes) (No):
Email (Yes) (No) Email Address: Sovermyer@solutions-ies.com

EDD Type: PDF Excel Other
Site Location Name: Elizabeth City PSAs
Site Location Physical Address: 610 E Elizabeth St
Elizabeth City, NC

CHAIN OF CUSTODY RECORD

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

Project Name: Elizabeth City, NC
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: _____

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>36</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purchase Order No./Billing Reference 4300132875
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE		8260	8270	TPH 600	0201		
G10-1	8/2/10	1330	W	VOA, A	5	40mL, 1L	HCl	X	X				01
G10-1-2-4	8/2/10	1835	S	VOA, G	4	40mL, 12oz			X				02
G10-2-0-2	8/2/10	1840	S	VOA, G	4	40mL, 12oz			X				03
G10-3-2-3	8/2/10	1842	S	VOA, G	4	40mL, 12oz			X				04
S07-6-2-4	8/2/10	1830	S	VOA, G	4	40mL, 12oz			X				05
S07-3-2-4	8/2/10	1850	S	VOA, G	4	40mL, 12oz			X				06
S07-2-2-4	8/2/10	1830	S	VOA, G	4	40mL, 12oz			X				07
S07-1-2-4	8/2/10	1845	S	VOA, G	4	40mL, 12oz			X				08
S07-1	8/2/10	1750	W	VOA, A	5	40mL, 1L		X	X				09
S07-5-2-4	8/2/10	1847	S	VOA, G	5	40mL, 12oz			X				10

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

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) <u>Kathryn Dall</u>	Received By: (Signature) <u>Alex Lassik</u>	Date <u>080310</u>	Military/Hours <u>1010</u>	Additional Comments: <u>Relinquished by Dan Marin</u> <u>8-4-10 1600</u> <u>Received:</u>
Relinquished By: (Signature) <u>Alex Lassik</u>	Received By: (Signature) <u>Scott</u>	Date <u>080310</u>	Military/Hours <u>1400</u>	
Relinquished By: (Signature) <u>Scott</u>	Received For Prism Laboratories By: <u>Dan Marin</u>	Date <u>8-4-10</u>	Military/Hours <u>1250</u>	
Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand-delivered <input checked="" type="checkbox"/> Prism Field Service <input type="checkbox"/> Other		COC Group No. <u>0080134</u>		

PRISM USE ONLY

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

NPDES: NC SC NC SC NC SC NC SC NC SC NC SC NC SC NC SC

UST: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

GROUNDWATER: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

DRINKING WATER: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

SOLID WASTE: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

RCRA: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

CERCLA: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

LANDFILL: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

OTHER: 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)

8/4/10 1610

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

Project: NCDOT Elizabeth City PSA's - 610 E. Elizabeth St.
Project No.: WBS# 35742.1.1
Lab Submittal Date: 08/05/2010
Prism Work Order: 0080165

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.
- DO Surrogates diluted out.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- M Matrix spike outside of the control limits.
- P Recovery outside of the QC limits due to inconsistency during extraction and chromatographic performance of this compound.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
610-5-1.5-4	0080165-01	Solid	08/04/10	08/05/10
610-6-1-4	0080165-02	Solid	08/04/10	08/05/10
610-7-3-4	0080165-03	Solid	08/04/10	08/05/10
610-8-1-4	0080165-04	Solid	08/04/10	08/05/10
610-10-2-4	0080165-05	Solid	08/04/10	08/05/10
610-3-2-4	0080165-06	Solid	08/04/10	08/05/10
610-4-2-4	0080165-07	Solid	08/04/10	08/05/10
610-7	0080165-08	Water	08/04/10	08/05/10

Samples received in good condition at 2.8 degrees C unless otherwise noted.



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

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

Client Sample ID: 610-5-1.5-4
Prism Sample ID: 0080165-01
Prism Work Order: 0080165
Time Collected: 08/04/10 13:30
Time Submitted: 08/05/10 18:05

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

Diesel Range Organics	BRL	mg/kg dry	7.4	1.2	1	*8015C	8/18/10 0:08	JMV	P0H0365
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			62 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.6	0.85	50	*8015C	8/12/10 2:07	HPE	P0H0260
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			117 %		55-129	

General Chemistry Parameters

% Solids	94.2	% by Weight	0.100	0.100	1	*SM2540 G	8/10/10 15:00	JAB	P0H0240
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

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

Client Sample ID: 610-6-1-4
 Prism Sample ID: 0080165-02
 Prism Work Order: 0080165
 Time Collected: 08/04/10 13:38
 Time Submitted: 08/05/01 18:05

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

Diesel Range Organics	BRL	mg/kg dry	7.5	1.2	1	*8015C	8/18/10 0:43	JMV	P0H0365
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			65 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.4	0.70	50	*8015C	8/12/10 2:42	HPE	P0H0260
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			93 %		55-129	

General Chemistry Parameters

% Solids	93.7	% by Weight	0.100	0.100	1	*SM2540 G	8/10/10 15:00	JAB	P0H0240
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

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

Client Sample ID: 610-7-3-4
 Prism Sample ID: 0080165-03
 Prism Work Order: 0080165
 Time Collected: 08/04/10 13:48
 Time Submitted: 08/05/01 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	920	mg/kg dry	370	59	20	*8015C	8/18/10 12:13	JMV	P0H0365
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			0 %		49-124	DO
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.5	0.84	50	*8015C	8/12/10 3:16	HPE	P0H0260
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			93 %		55-129	
General Chemistry Parameters									
% Solids	76.1	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272

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

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

Client Sample ID: 610-8-1-4
 Prism Sample ID: 0080165-04
 Prism Work Order: 0080165
 Time Collected: 08/04/10 14:08
 Time Submitted: 08/05/01 18:05

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

Diesel Range Organics	BRL	mg/kg dry	8.1	1.3	1	*8015C	8/18/10 1:19	JMV	P0H0365
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			64 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.2	0.67	50	*8015C	8/12/10 3:50	HPE	P0H0260
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			88 %		55-129	

General Chemistry Parameters

% Solids	86.1	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
Attn: Jody Overmyer
1101 Nowell Road
Raleigh, NC 27607

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

Client Sample ID: 610-10-2-4
Prism Sample ID: 0080165-05
Prism Work Order: 0080165
Time Collected: 08/04/10 15:10
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	710	mg/kg dry	410	67	20	*8015C	8/18/10 12:49	JMV	P0H0365
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			0 %		49-124	DO
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	4900	mg/kg dry	220	29	2000	*8015C	8/12/10 12:28	HPE	P0H0260
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			0 %		55-129	DO
General Chemistry Parameters									
% Solids	67.5	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272

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

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

Client Sample ID: 610-3-2-4
 Prism Sample ID: 0080165-06
 Prism Work Order: 0080165
 Time Collected: 08/04/10 14:40
 Time Submitted: 08/05/01 18:05

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

Diesel Range Organics	BRL	mg/kg dry	7.8	1.3	1	*8015C	8/18/10 15:48	JMV	P0H0365
			Surrogate				Recovery		Control Limits
			o-Terphenyl				72 %		49-124

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.9	0.64	50	*8015C	8/12/10 10:48	HPE	P0H0260
			Surrogate				Recovery		Control Limits
			a,a,a-Trifluorotoluene				92 %		55-129

General Chemistry Parameters

% Solids	89.6	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

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

Client Sample ID: 610-4-2-4
 Prism Sample ID: 0080165-07
 Prism Work Order: 0080165
 Time Collected: 08/04/10 15:00
 Time Submitted: 08/05/01 18:05

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

Diesel Range Organics	BRL	mg/kg dry	7.9	1.3	1	*8015C	8/18/10 10:26	JMV	P0H0365
			Surrogate				Recovery		Control Limits
			o-Terphenyl				57 %		49-124

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.3	0.68	50	*8015C	8/12/10 5:32	HPE	P0H0260
			Surrogate				Recovery		Control Limits
			a,a,a-Trifluorotoluene				93 %		55-129

General Chemistry Parameters

% Solids	88.1	% by Weight	0.100	0.100	1	*SM2540 G	8/11/10 14:45	JAB	P0H0272
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Solutions IES (NCDOT Project)
 Attn: Jody Overmyer
 1101 Nowell Road
 Raleigh, NC 27607

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

Client Sample ID: 610-7
 Prism Sample ID: 0080165-08
 Prism Work Order: 0080165
 Time Collected: 08/04/10 14:20
 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 21:49	CGP	P0H0259
1,2-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
1,3-Dichlorobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
1,4-Dichlorobenzene	BRL	ug/L	10	2.0	1	8270D	8/12/10 21:49	CGP	P0H0259
2,4,5-Trichlorophenol	BRL	ug/L	10	2.5	1	8270D	8/12/10 21:49	CGP	P0H0259
2,4,6-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 21:49	CGP	P0H0259
2,4-Dimethylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 21:49	CGP	P0H0259
2,4-Dinitrophenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 21:49	CGP	P0H0259
2,4-Dinitrotoluene	BRL	ug/L	10	0.95	1	8270D	8/12/10 21:49	CGP	P0H0259
2,6-Dinitrotoluene	BRL	ug/L	10	1.6	1	8270D	8/12/10 21:49	CGP	P0H0259
2-Chloronaphthalene	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259
2-Chlorophenol	BRL	ug/L	10	2.1	1	8270D	8/12/10 21:49	CGP	P0H0259
2-Methylnaphthalene	BRL	ug/L	10	2.6	1	8270D	8/12/10 21:49	CGP	P0H0259
2-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 21:49	CGP	P0H0259
2-Nitroaniline	BRL	ug/L	10	1.9	1	8270D	8/12/10 21:49	CGP	P0H0259
2-Nitrophenol	BRL	ug/L	10	2.5	1	8270D	8/12/10 21:49	CGP	P0H0259
3,3'-Dichlorobenzidine	BRL	ug/L	10	0.96	1	8270D	8/12/10 21:49	CGP	P0H0259
3/4-Methylphenol	BRL	ug/L	10	2.4	1	8270D	8/12/10 21:49	CGP	P0H0259
3-Nitroaniline	BRL	ug/L	10	1.3	1	8270D	8/12/10 21:49	CGP	P0H0259
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.7	1	8270D	8/12/10 21:49	CGP	P0H0259
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
4-Chloro-3-methylphenol	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259
4-Chloroaniline	BRL	ug/L	10	2.5	1	8270D	8/12/10 21:49	CGP	P0H0259
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
4-Nitroaniline	BRL	ug/L	10	0.91	1	8270D	8/12/10 21:49	CGP	P0H0259
4-Nitrophenol	BRL	ug/L	50	2.6	1	8270D	8/12/10 21:49	CGP	P0H0259
Acenaphthene	BRL	ug/L	10	2.1	1	8270D	8/12/10 21:49	CGP	P0H0259
Acenaphthylene	BRL	ug/L	10	2.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Aniline	BRL	ug/L	10	2.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Anthracene	BRL	ug/L	10	1.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Azobenzene	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzo(a)anthracene	BRL	ug/L	10	0.95	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzo(a)pyrene	BRL	ug/L	10	1.1	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzo(g,h,i)perylene	BRL	ug/L	10	2.1	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzo(k)fluoranthene	BRL	ug/L	10	1.1	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzoic Acid	BRL	ug/L	100	50	1	8270D	8/12/10 21:49	CGP	P0H0259
Benzyl alcohol	BRL	ug/L	10	2.1	1	8270D	8/12/10 21:49	CGP	P0H0259
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.9	1	8270D	8/12/10 21:49	CGP	P0H0259
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259

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

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

Client Sample ID: 610-7
 Prism Sample ID: 0080165-08
 Prism Work Order: 0080165
 Time Collected: 08/04/10 14:20
 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 21:49	CGP	P0H0259
Butyl benzyl phthalate	BRL	ug/L	10	1.5	1	8270D	8/12/10 21:49	CGP	P0H0259
Chrysene	BRL	ug/L	10	1.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
Dibenzofuran	BRL	ug/L	10	2.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Diethyl phthalate	BRL	ug/L	10	1.4	1	8270D	8/12/10 21:49	CGP	P0H0259
Dimethyl phthalate	BRL	ug/L	10	1.6	1	8270D	8/12/10 21:49	CGP	P0H0259
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
Di-n-octyl phthalate	BRL	ug/L	10	1.9	1	8270D	8/12/10 21:49	CGP	P0H0259
Fluoranthene	BRL	ug/L	10	0.94	1	8270D	8/12/10 21:49	CGP	P0H0259
Fluorene	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
Hexachlorobenzene	BRL	ug/L	10	1.4	1	8270D	8/12/10 21:49	CGP	P0H0259
Hexachlorobutadiene	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	8270D	8/12/10 21:49	CGP	P0H0259
Hexachloroethane	BRL	ug/L	10	1.9	1	8270D	8/12/10 21:49	CGP	P0H0259
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	1.6	1	8270D	8/12/10 21:49	CGP	P0H0259
Isophorone	BRL	ug/L	10	2.4	1	8270D	8/12/10 21:49	CGP	P0H0259
Naphthalene	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259
Nitrobenzene	BRL	ug/L	10	2.0	1	8270D	8/12/10 21:49	CGP	P0H0259
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	8270D	8/12/10 21:49	CGP	P0H0259
N-Nitrosodiphenylamine	BRL	ug/L	10	1.6	1	8270D	8/12/10 21:49	CGP	P0H0259
Pentachlorophenol	BRL	ug/L	10	1.6	1	8270D	8/12/10 21:49	CGP	P0H0259
Phenanthrene	BRL	ug/L	10	1.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Phenol	BRL	ug/L	10	2.2	1	8270D	8/12/10 21:49	CGP	P0H0259
Pyrene	BRL	ug/L	10	1.4	1	8270D	8/12/10 21:49	CGP	P0H0259

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	56 %	26-139
2-Fluorobiphenyl	60 %	41-112
2-Fluorophenol	33 %	10-48
Nitrobenzene-d5	57 %	34-102
Phenol-d5	18 %	10-34
Terphenyl-d14	62 %	31-165

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	1.0	0.15	1	8260B	8/11/10 22:26	KLA	P0H0263
1,1,1-Trichloroethane	BRL	ug/L	1.0	0.063	1	8260B	8/11/10 22:26	KLA	P0H0263
1,1,2,2-Tetrachloroethane	BRL	ug/L	1.0	0.071	1	8260B	8/11/10 22:26	KLA	P0H0263
1,1,2-Trichloroethane	BRL	ug/L	1.0	0.17	1	8260B	8/11/10 22:26	KLA	P0H0263
1,1-Dichloroethane	BRL	ug/L	1.0	0.096	1	8260B	8/11/10 22:26	KLA	P0H0263
1,1-Dichloroethylene	BRL	ug/L	1.0	0.078	1	8260B	8/11/10 22:26	KLA	P0H0263
1,1-Dichloropropylene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.20	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 22:26	KLA	P0H0263

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

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

Client Sample ID: 610-7
 Prism Sample ID: 0080165-08
 Prism Work Order: 0080165
 Time Collected: 08/04/10 14:20
 Time Submitted: 08/05/10 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trimethylbenzene	BRL	ug/L	1.0	0.048	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2-Dibromoethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2-Dichlorobenzene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2-Dichloroethane	BRL	ug/L	1.0	0.14	1	8260B	8/11/10 22:26	KLA	P0H0263
1,2-Dichloropropane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 22:26	KLA	P0H0263
1,3,5-Trimethylbenzene	BRL	ug/L	1.0	0.057	1	8260B	8/11/10 22:26	KLA	P0H0263
1,3-Dichlorobenzene	BRL	ug/L	1.0	0.074	1	8260B	8/11/10 22:26	KLA	P0H0263
1,3-Dichloropropane	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 22:26	KLA	P0H0263
1,4-Dichlorobenzene	BRL	ug/L	1.0	0.068	1	8260B	8/11/10 22:26	KLA	P0H0263
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 22:26	KLA	P0H0263
2-Chloroethyl Vinyl Ether	BRL	ug/L	2.0	0.22	1	8260B	8/11/10 22:26	KLA	P0H0263
2-Chlorotoluene	BRL	ug/L	1.0	0.038	1	8260B	8/11/10 22:26	KLA	P0H0263
4-Chlorotoluene	BRL	ug/L	1.0	0.053	1	8260B	8/11/10 22:26	KLA	P0H0263
4-Isopropyltoluene	BRL	ug/L	1.0	0.065	1	8260B	8/11/10 22:26	KLA	P0H0263
Acetone	BRL	ug/L	10	0.62	1	8260B	8/11/10 22:26	KLA	P0H0263
Acrolein	BRL	ug/L	100	1.1	1	8260B	8/11/10 22:26	KLA	P0H0263
Acrylonitrile	BRL	ug/L	100	0.86	1	8260B	8/11/10 22:26	KLA	P0H0263
Benzene	BRL	ug/L	1.0	0.072	1	8260B	8/11/10 22:26	KLA	P0H0263
Bromobenzene	BRL	ug/L	1.0	0.064	1	8260B	8/11/10 22:26	KLA	P0H0263
Bromochloromethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 22:26	KLA	P0H0263
Bromodichloromethane	BRL	ug/L	1.0	0.062	1	8260B	8/11/10 22:26	KLA	P0H0263
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	8/11/10 22:26	KLA	P0H0263
Bromomethane	BRL	ug/L	3.0	0.47	1	8260B	8/11/10 22:26	KLA	P0H0263
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	8/11/10 22:26	KLA	P0H0263
Carbon Tetrachloride	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 22:26	KLA	P0H0263
Chlorobenzene	BRL	ug/L	1.0	0.061	1	8260B	8/11/10 22:26	KLA	P0H0263
Chloroethane	BRL	ug/L	5.0	0.13	1	8260B	8/11/10 22:26	KLA	P0H0263
Chloroform	BRL	ug/L	1.0	0.089	1	8260B	8/11/10 22:26	KLA	P0H0263
Chloromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 22:26	KLA	P0H0263
cis-1,2-Dichloroethylene	BRL	ug/L	1.0	0.076	1	8260B	8/11/10 22:26	KLA	P0H0263
cis-1,3-Dichloropropylene	BRL	ug/L	1.0	0.10	1	8260B	8/11/10 22:26	KLA	P0H0263
Dibromochloromethane	BRL	ug/L	1.0	0.30	1	8260B	8/11/10 22:26	KLA	P0H0263
Dibromomethane	BRL	ug/L	1.0	0.13	1	8260B	8/11/10 22:26	KLA	P0H0263
Dichlorodifluoromethane	BRL	ug/L	2.0	0.11	1	8260B	8/11/10 22:26	KLA	P0H0263
Ethylbenzene	BRL	ug/L	1.0	0.067	1	8260B	8/11/10 22:26	KLA	P0H0263
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	8260B	8/11/10 22:26	KLA	P0H0263
Isopropyl Ether	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 22:26	KLA	P0H0263
Isopropylbenzene (Cumene)	BRL	ug/L	1.0	0.072	1	8260B	8/11/10 22:26	KLA	P0H0263
m,p-Xylenes	BRL	ug/L	2.0	0.081	1	8260B	8/11/10 22:26	KLA	P0H0263
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	8/11/10 22:26	KLA	P0H0263
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	8/11/10 22:26	KLA	P0H0263
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	8/11/10 22:26	KLA	P0H0263

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

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

Client Sample ID: 610-7
 Prism Sample ID: 0080165-08
 Prism Work Order: 0080165
 Time Collected: 08/04/10 14:20
 Time Submitted: 08/05/01 18:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene Chloride	BRL	ug/L	2.0	0.44	1	8260B	8/11/10 22:26	KLA	P0H0263
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.070	1	8260B	8/11/10 22:26	KLA	P0H0263
Naphthalene	BRL	ug/L	1.0	0.098	1	8260B	8/11/10 22:26	KLA	P0H0263
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	8260B	8/11/10 22:26	KLA	P0H0263
n-Propylbenzene	BRL	ug/L	1.0	0.060	1	8260B	8/11/10 22:26	KLA	P0H0263
o-Xylene	BRL	ug/L	1.0	0.046	1	8260B	8/11/10 22:26	KLA	P0H0263
sec-Butylbenzene	BRL	ug/L	1.0	0.087	1	8260B	8/11/10 22:26	KLA	P0H0263
Styrene	BRL	ug/L	1.0	0.047	1	8260B	8/11/10 22:26	KLA	P0H0263
tert-Butylbenzene	BRL	ug/L	1.0	0.080	1	8260B	8/11/10 22:26	KLA	P0H0263
Tetrachloroethylene	BRL	ug/L	1.0	0.069	1	8260B	8/11/10 22:26	KLA	P0H0263
Toluene	BRL	ug/L	1.0	0.042	1	8260B	8/11/10 22:26	KLA	P0H0263
trans-1,2-Dichloroethylene	BRL	ug/L	2.0	0.12	1	8260B	8/11/10 22:26	KLA	P0H0263
trans-1,3-Dichloropropylene	BRL	ug/L	1.0	0.043	1	8260B	8/11/10 22:26	KLA	P0H0263
Trichloroethylene	BRL	ug/L	2.0	0.054	1	8260B	8/11/10 22:26	KLA	P0H0263
Trichlorofluoromethane	BRL	ug/L	2.0	0.088	1	8260B	8/11/10 22:26	KLA	P0H0263
Vinyl acetate	BRL	ug/L	20	0.10	1	8260B	8/11/10 22:26	KLA	P0H0263
Vinyl chloride	BRL	ug/L	2.0	0.16	1	8260B	8/11/10 22:26	KLA	P0H0263

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	106 %	80-124
Dibromofluoromethane	98 %	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 -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 Time Submitted: 8/5/10 6:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

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

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

Project: NCDOT Elizabeth City PSA's -
610 E. Elizabeth St.
Project No: WBS# 35742.1.1

Prism Work Order: 0080165
Time Submitted: 8/5/10 6:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

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

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 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			

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Prism Work Order: 0080165
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

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

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

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

Blank (P0H0259-BLK1)			Prepared: 08/11/10 Analyzed: 08/12/10							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	58.7		ug/L	100		59	26-139			
Surrogate: 2-Fluorobiphenyl	36.3		ug/L	50.0		73	41-112			
Surrogate: 2-Fluorophenol	45.6		ug/L	100		46	10-48			
Surrogate: Nitrobenzene-d5	34.9		ug/L	50.0		70	34-102			
Surrogate: Phenol-d5	25.3		ug/L	100		25	10-34			
Surrogate: Terphenyl-d14	46.6		ug/L	50.0		93	31-165			

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Semivolatile Organic Compounds by GC/MS - Quality Control

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

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

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

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				

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Semivolatile Organic Compounds by GC/MS - Quality Control

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

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 610 E. Elizabeth St.
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 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 -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 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										
Matrix Spike (P0H0259-MS1)	Source: 0080165-08			Prepared: 08/11/10		Analyzed: 08/12/10				
1,2,4-Trichlorobenzene	53.6	20	ug/L	100	BRL	54	44-100			
1,2-Dichlorobenzene	49.3	20	ug/L	100	BRL	49	42-99			
1,3-Dichlorobenzene	48.0	20	ug/L	100	BRL	48	35-101			
1,4-Dichlorobenzene	47.5	20	ug/L	100	BRL	48	43-97			
2,4,5-Trichlorophenol	70.4	20	ug/L	100	BRL	70	51-122			
2,4,6-Trichlorophenol	67.0	20	ug/L	100	BRL	67	46-117			
2,4-Dichlorophenol	64.3	20	ug/L	100	BRL	64	42-108			
2,4-Dimethylphenol	65.2	20	ug/L	100	BRL	65	13-122			
2,4-Dinitrophenol	77.5	20	ug/L	100	BRL	78	10-166			
2,4-Dinitrotoluene	69.4	20	ug/L	100	BRL	69	64-135			
2,6-Dinitrotoluene	66.8	20	ug/L	100	BRL	67	50-146			
2-Chloronaphthalene	54.1	20	ug/L	100	BRL	54	46-114			
2-Chlorophenol	56.8	20	ug/L	100	BRL	57	36-94			
2-Methylnaphthalene	66.8	20	ug/L	100	BRL	67	36-115			
2-Methylphenol	51.1	20	ug/L	100	BRL	51	27-92			
2-Nitroaniline	65.8	20	ug/L	100	BRL	66	51-139			
2-Nitrophenol	66.2	20	ug/L	100	BRL	66	43-108			
3,3'-Dichlorobenzidine	BRL	20	ug/L	100	BRL		10-214			M
3/4-Methylphenol	49.9	20	ug/L	100	BRL	50	22-84			
3-Nitroaniline	84.3	20	ug/L	100	BRL	84	50-145			
4,6-Dinitro-2-methylphenol	63.0	20	ug/L	100	BRL	63	25-152			
4-Bromophenyl phenyl ether	66.5	20	ug/L	100	BRL	66	52-128			
4-Chloro-3-methylphenol	61.5	20	ug/L	100	BRL	62	44-110			
4-Chloroaniline	68.7	20	ug/L	100	BRL	69	10-156			
4-Chlorophenyl phenyl ether	67.8	20	ug/L	100	BRL	68	55-125			
4-Nitroaniline	77.5	20	ug/L	100	BRL	78	39-159			
4-Nitrophenol	24.9	100	ug/L	100	BRL	25	10-105			J
Acenaphthene	67.2	20	ug/L	100	BRL	67	55-117			
Acenaphthylene	69.7	20	ug/L	100	BRL	70	52-121			
Aniline	73.9	20	ug/L	100	BRL	74	11-124			
Anthracene	74.6	20	ug/L	100	BRL	75	60-136			
Azobenzene	70.6	20	ug/L	100	BRL	71	50-135			
Benzo(a)anthracene	73.6	20	ug/L	100	BRL	74	64-135			
Benzo(a)pyrene	73.5	20	ug/L	100	BRL	73	68-136			
Benzo(b)fluoranthene	76.4	20	ug/L	100	BRL	76	61-149			
Benzo(g,h,i)perylene	56.9	20	ug/L	100	BRL	57	47-151			
Benzo(k)fluoranthene	71.7	20	ug/L	100	BRL	72	45-148			
Benzoic Acid	BRL	200	ug/L	100	BRL		10-125			P
Benzyl alcohol	57.3	20	ug/L	100	BRL	57	30-97			
bis(2-Chloroethoxy)methane	65.3	20	ug/L	100	BRL	65	43-119			
Bis(2-Chloroethyl)ether	58.7	20	ug/L	100	BRL	59	36-115			
Bis(2-chloroisopropyl)ether	57.3	20	ug/L	100	BRL	57	36-113			
Bis(2-Ethylhexyl)phthalate	74.4	20	ug/L	100	BRL	74	50-168			
Butyl benzyl phthalate	77.7	20	ug/L	100	BRL	78	52-166			
Chrysene	67.0	20	ug/L	100	BRL	67	62-135			
Dibenzo(a,h)anthracene	59.4	20	ug/L	100	BRL	59	45-155			

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

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

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

Matrix Spike (P0H0259-MS1)	Source: 0080165-08		Prepared: 08/11/10		Analyzed: 08/12/10		
Dibenzofuran	67.3	20	ug/L	100	BRL	67	58-119
Diethyl phthalate	70.8	20	ug/L	100	BRL	71	55-137
Dimethyl phthalate	70.8	20	ug/L	100	BRL	71	46-135
Di-n-butyl phthalate	73.6	20	ug/L	100	BRL	74	53-141
Di-n-octyl phthalate	83.5	20	ug/L	100	BRL	83	48-166
Fluoranthene	73.1	20	ug/L	100	BRL	73	51-136
Fluorene	70.9	20	ug/L	100	BRL	71	57-121
Hexachlorobenzene	58.0	20	ug/L	100	BRL	58	55-131
Hexachlorobutadiene	52.9	20	ug/L	100	BRL	53	39-110
Hexachlorocyclopentadiene	45.1	20	ug/L	100	BRL	45	26-122
Hexachloroethane	49.9	20	ug/L	100	BRL	50	37-98
Indeno(1,2,3-cd)pyrene	58.5	20	ug/L	100	BRL	59	14-177
Isophorone	67.2	20	ug/L	100	BRL	67	49-113
Naphthalene	65.1	20	ug/L	100	BRL	65	38-109
Nitrobenzene	59.7	20	ug/L	100	BRL	60	34-117
N-Nitroso-di-n-propylamine	61.7	20	ug/L	100	BRL	62	44-115
N-Nitrosodiphenylamine	95.2	20	ug/L	100	BRL	95	57-156
Pentachlorophenol	86.2	20	ug/L	100	BRL	86	17-167
Phenanthrene	71.7	20	ug/L	100	BRL	72	62-131
Phenol	29.0	20	ug/L	100	BRL	29	10-68
Pyrene	75.4	20	ug/L	100	BRL	75	46-156
Surrogate: 2,4,6-Tribromophenol	129		ug/L	200		65	26-139
Surrogate: 2-Fluorobiphenyl	62.0		ug/L	100		62	41-112
Surrogate: 2-Fluorophenol	77.2		ug/L	200		39	10-48
Surrogate: Nitrobenzene-d5	57.4		ug/L	100		57	34-102
Surrogate: Phenol-d5	57.4		ug/L	200		29	10-34
Surrogate: Terphenyl-d14	61.4		ug/L	100		61	31-165

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 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 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										
Matrix Spike Dup (P0H0259-MSD1)										
Source: 0080165-08 Prepared: 08/11/10 Analyzed: 08/12/10										
1,2,4-Trichlorobenzene	60.1	20	ug/L	100	BRL	60	44-100	12	30	
1,2-Dichlorobenzene	56.0	20	ug/L	100	BRL	56	42-99	13	34	
1,3-Dichlorobenzene	52.6	20	ug/L	100	BRL	53	35-101	9	36	
1,4-Dichlorobenzene	54.5	20	ug/L	100	BRL	55	43-97	14	35	
2,4,5-Trichlorophenol	80.0	20	ug/L	100	BRL	80	51-122	13	22	
2,4,6-Trichlorophenol	75.8	20	ug/L	100	BRL	76	46-117	12	30	
2,4-Dichlorophenol	72.3	20	ug/L	100	BRL	72	42-108	12	33	
2,4-Dimethylphenol	71.1	20	ug/L	100	BRL	71	13-122	9	36	
2,4-Dinitrophenol	86.6	20	ug/L	100	BRL	87	10-166	11	41	
2,4-Dinitrotoluene	78.1	20	ug/L	100	BRL	78	64-135	12	24	
2,6-Dinitrotoluene	74.4	20	ug/L	100	BRL	74	50-146	11	28	
2-Chloronaphthalene	67.2	20	ug/L	100	BRL	67	46-114	22	30	
2-Chlorophenol	64.5	20	ug/L	100	BRL	65	36-94	13	37	
2-Methylnaphthalene	74.8	20	ug/L	100	BRL	75	36-115	11	33	
2-Methylphenol	58.6	20	ug/L	100	BRL	59	27-92	14	36	
2-Nitroaniline	72.9	20	ug/L	100	BRL	73	51-139	10	24	
2-Nitrophenol	74.9	20	ug/L	100	BRL	75	43-108	12	33	
3,3'-Dichlorobenzidine	BRL	20	ug/L	100	BRL		10-214		34	M
3/4-Methylphenol	57.9	20	ug/L	100	BRL	58	22-84	15	30	
3-Nitroaniline	80.0	20	ug/L	100	BRL	80	50-145	5	24	
4,6-Dinitro-2-methylphenol	71.4	20	ug/L	100	BRL	71	25-152	12	35	
4-Bromophenyl phenyl ether	75.0	20	ug/L	100	BRL	75	52-128	12	21	
4-Chloro-3-methylphenol	67.9	20	ug/L	100	BRL	68	44-110	10	25	
4-Chloroaniline	68.9	20	ug/L	100	BRL	69	10-156	0.3	38	
4-Chlorophenyl phenyl ether	75.4	20	ug/L	100	BRL	75	55-125	11	29	
4-Nitroaniline	66.1	20	ug/L	100	BRL	66	39-159	16	29	
4-Nitrophenol	27.7	100	ug/L	100	BRL	28	10-105	11	40	J
Acenaphthene	75.1	20	ug/L	100	BRL	75	55-117	11	33	
Acenaphthylene	78.9	20	ug/L	100	BRL	79	52-121	12	30	
Aniline	71.3	20	ug/L	100	BRL	71	11-124	4	35	
Anthracene	83.2	20	ug/L	100	BRL	83	60-136	11	27	
Azobenzene	79.2	20	ug/L	100	BRL	79	50-135	12	34	
Benzo(a)anthracene	81.7	20	ug/L	100	BRL	82	64-135	10	18	
Benzo(a)pyrene	83.0	20	ug/L	100	BRL	83	68-136	12	21	
Benzo(b)fluoranthene	80.6	20	ug/L	100	BRL	81	61-149	5	34	
Benzo(g,h,i)perylene	64.0	20	ug/L	100	BRL	64	47-151	12	27	
Benzo(k)fluoranthene	85.3	20	ug/L	100	BRL	85	45-148	17	39	
Benzoic Acid	BRL	200	ug/L	100	BRL		10-125		51	P
Benzyl alcohol	61.9	20	ug/L	100	BRL	62	30-97	8	37	
bis(2-Chloroethoxy)methane	72.0	20	ug/L	100	BRL	72	43-119	10	30	
Bis(2-Chloroethyl)ether	65.8	20	ug/L	100	BRL	66	36-115	11	33	
Bis(2-chloroisopropyl)ether	65.4	20	ug/L	100	BRL	65	36-113	13	34	
Bis(2-Ethylhexyl)phthalate	83.5	20	ug/L	100	BRL	84	50-168	11	21	
Butyl benzyl phthalate	85.1	20	ug/L	100	BRL	85	52-166	9	23	
Chrysene	75.9	20	ug/L	100	BRL	76	62-135	13	22	
Dibenzo(a,h)anthracene	65.7	20	ug/L	100	BRL	66	45-155	10	28	

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 Raleigh, NC 27607

Project: NCDOT Elizabeth City PSA's -
 610 E. Elizabeth St.
 Project No: WBS# 35742.1.1

Prism Work Order: 0080165
 Time Submitted: 8/5/10 6:05:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

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

Matrix Spike Dup (P0H0259-MSD1)	Source: 0080165-08		Prepared: 08/11/10		Analyzed: 08/12/10				
Dibenzofuran	75.9	20	ug/L	100	BRL	76	58-119	12	23
Diethyl phthalate	76.9	20	ug/L	100	BRL	77	55-137	8	22
Dimethyl phthalate	78.1	20	ug/L	100	BRL	78	46-135	10	25
Di-n-butyl phthalate	80.4	20	ug/L	100	BRL	80	53-141	9	24
Di-n-octyl phthalate	91.2	20	ug/L	100	BRL	91	48-166	9	21
Fluoranthene	82.3	20	ug/L	100	BRL	82	51-136	12	26
Fluorene	80.6	20	ug/L	100	BRL	81	57-121	13	30
Hexachlorobenzene	64.2	20	ug/L	100	BRL	64	55-131	10	29
Hexachlorobutadiene	59.0	20	ug/L	100	BRL	59	39-110	11	35
Hexachlorocyclopentadiene	54.1	20	ug/L	100	BRL	54	26-122	18	36
Hexachloroethane	55.9	20	ug/L	100	BRL	56	37-98	11	37
Indeno(1,2,3-cd)pyrene	64.7	20	ug/L	100	BRL	65	14-177	10	34
Isophorone	74.2	20	ug/L	100	BRL	74	49-113	10	27
Naphthalene	73.2	20	ug/L	100	BRL	73	38-109	12	35
Nitrobenzene	68.3	20	ug/L	100	BRL	68	34-117	13	34
N-Nitroso-di-n-propylamine	68.4	20	ug/L	100	BRL	68	44-115	10	33
N-Nitrosodiphenylamine	108	20	ug/L	100	BRL	108	57-156	13	26
Pentachlorophenol	90.9	20	ug/L	100	BRL	91	17-167	5	36
Phenanthrene	79.9	20	ug/L	100	BRL	80	62-131	11	23
Phenol	32.7	20	ug/L	100	BRL	33	10-68	12	43
Pyrene	85.5	20	ug/L	100	BRL	86	46-156	13	31
Surrogate: 2,4,6-Tribromophenol	144		ug/L	200		72	26-139		
Surrogate: 2-Fluorobiphenyl	69.0		ug/L	100		69	41-112		
Surrogate: 2-Fluorophenol	87.3		ug/L	200		44	10-48		
Surrogate: Nitrobenzene-d5	63.8		ug/L	100		64	34-102		
Surrogate: Phenol-d5	55.3		ug/L	200		28	10-34		
Surrogate: Terphenyl-d14	68.5		ug/L	100		68	31-165		

Solutions IES (NCDOT Project)
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Prism Work Order: 0080165
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 P0H0260 - 5035										
Blank (P0H0260-BLK1)										
Prepared & Analyzed: 08/11/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.05		mg/kg wet	5.00		101	55-129			
LCS (P0H0260-BS1)										
Prepared & Analyzed: 08/11/10										
Gasoline Range Organics	44.8	5.0	mg/kg wet	50.0		90	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.55		mg/kg wet	5.00		111	55-129			
LCS Dup (P0H0260-BSD1)										
Prepared & Analyzed: 08/11/10										
Gasoline Range Organics	42.8	5.0	mg/kg wet	50.0		86	67-116	5	200	
Surrogate: a,a,a-Trifluorotoluene	5.20		mg/kg wet	5.00		104	55-129			

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Prism Work Order: 0080165
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 P0H0365 - 3545A										
Blank (P0H0365-BLK1)										
					Prepared: 08/16/10 Analyzed: 08/17/10					
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.06		mg/kg wet	1.60		66	49-124			
LCS (P0H0365-BS1)										
					Prepared: 08/16/10 Analyzed: 08/17/10					
Diesel Range Organics	57.2	7.0	mg/kg wet	79.9		72	55-109			
Surrogate: <i>o</i> -Terphenyl	1.37		mg/kg wet	1.60		86	49-124			
LCS Dup (P0H0365-BSD1)										
					Prepared: 08/16/10 Analyzed: 08/17/10					
Diesel Range Organics	51.6	7.0	mg/kg wet	79.8		65	55-109	10	200	
Surrogate: <i>o</i> -Terphenyl	1.33		mg/kg wet	1.60		84	49-124			

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0080165-01	P0H0365	25.01 g	1 mL	08/16/10
0080165-02	P0H0365	25.01 g	1 mL	08/16/10
0080165-03	P0H0365	25.04 g	2 mL	08/16/10
0080165-04	P0H0365	25.15 g	1 mL	08/16/10
0080165-05	P0H0365	25.09 g	2 mL	08/16/10
0080165-06	P0H0365	25 g	1 mL	08/16/10
0080165-07	P0H0365	25.03 g	1 mL	08/16/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0080165-01	P0H0260	4.04 g	5 mL	08/11/10
0080165-02	P0H0260	4.93 g	5 mL	08/11/10
0080165-03	P0H0260	5.07 g	5 mL	08/11/10
0080165-04	P0H0260	5.61 g	5 mL	08/11/10
0080165-05	P0H0260	6.68 g	5 mL	08/11/10
0080165-06	P0H0260	5.7 g	5 mL	08/11/10
0080165-07	P0H0260	5.39 g	5 mL	08/11/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0080165-01	P0H0240	30 g	30 mL	08/10/10
0080165-02	P0H0240	30 g	30 mL	08/10/10
0080165-03	P0H0272	30 g	30 mL	08/11/10
0080165-04	P0H0272	30 g	30 mL	08/11/10
0080165-05	P0H0272	30 g	30 mL	08/11/10
0080165-06	P0H0272	30 g	30 mL	08/11/10
0080165-07	P0H0272	30 g	30 mL	08/11/10

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date
0080165-08	P0H0259	1000 mL	1 mL	08/11/10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date
0080165-08	P0H0263	10 mL	10 mL	08/11/10

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Full-Service Analytical & Environmental Solutions

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

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

Phone: 919-873-1060 Fax (Yes) (No):
Email (Yes) (No) Email Address: Overmyer@solutions-ies.com
EDD Type: PDF Excel Other
Site Location Name: NC DOT Elizabeth City BAS
Site Location Physical Address: 610 E Elizabeth St

CHAIN OF CUSTODY RECORD

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

Project Name: NC DOT Elizabeth City BAS - 610 E Eliz 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: NC DOT WBS # 35742.1.1
Address: _____

Purchase Order No./Billing Reference 4306132875
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>2.8</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.			
				*TYPE SEE BELOW	NO.	SIZE		TPH 6001 DEP	8260	8270						
610-5-1.5-4	8/4/10	1330	Soil	VOA, G	4	40ml, 12oz		<input checked="" type="checkbox"/>						01		
610-6-1-4	8/4/10	1338	↓	↓	↓	↓		<input checked="" type="checkbox"/>						02		
610-7-3-4	8/4/10	1348						<input checked="" type="checkbox"/>								03
610-8-1-4	8/4/10	1408						<input checked="" type="checkbox"/>								04
610-10-2-4	8/4/10	1510						<input checked="" type="checkbox"/>								05
610-3-2-4	8/4/10	1440						<input checked="" type="checkbox"/>								06
610-4-2-4	8/4/10	1500						<input checked="" type="checkbox"/>								07
610-7	8/4/10	1420	water	VOA, A	5	40ml, 1L			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				08		

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

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) <u>Kathryn Doll</u>	Received By: (Signature) <u>Alex Lassiter</u>	Date: <u>080510</u>	Military/Hours: <u>1120</u>
Relinquished By: (Signature) <u>Alex Lassiter</u>	Received By: (Signature) <u>[Signature]</u>	Date: <u>080510</u>	Military/Hours: <u>1150</u>
Relinquished By: (Signature) <u>[Signature]</u>	Received For Prism Laboratories By: <u>Dan Mori</u>	Date: <u>8-5-10</u>	Military/Hours: <u>1600</u>
Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand-delivered <input checked="" type="checkbox"/> Prism Field Service <input type="checkbox"/> Other		NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.	
		COC Group No. <u>0080165</u>	

Additional Comments:
Relinquished by Dan Mori 8-5-10
1805
Rec'd by [Signature]

PRISM USE ONLY

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

NPDES: <input type="checkbox"/> NC <input type="checkbox"/> SC	UST: <input type="checkbox"/> NC <input type="checkbox"/> SC	GROUNDWATER: <input type="checkbox"/> NC <input type="checkbox"/> SC	DRINKING WATER: <input type="checkbox"/> NC <input type="checkbox"/> SC	SOLID WASTE: <input type="checkbox"/> NC <input type="checkbox"/> SC	RCRA: <input type="checkbox"/> NC <input type="checkbox"/> SC	CERCLA: <input type="checkbox"/> NC <input type="checkbox"/> SC	LANDFILL: <input type="checkbox"/> NC <input type="checkbox"/> SC	OTHER: <input type="checkbox"/> NC <input type="checkbox"/> SC
--	--	--	---	--	---	---	---	--

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