

**PRELIMINARY SITE ASSESSMENT
PARCEL #2
1151 MARTIN LUTHER KING JR. DRIVE
WINSTON-SALEM, NORTH CAROLINA
STATE PROJECT: U-2826B
WBS ELEMENT: 34871.2.1**

Prepared for:

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Solutions-IES Project No. 3944.10A3.NDOT

May 17, 2010



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

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1.0 INTRODUCTION

Parcel #2 in Forsyth County is currently in use by Piedmont Garage Doors located at 1151 Martin Luther King Jr. Drive, Winston-Salem, North Carolina. The location of the property is shown on **Figures 1 and 2**. The NCDOT plans to acquire this property due to the planned realignment of entrance and exit ramps to US-52. This report summarizes the results of field and laboratory activities conducted during the Preliminary Site Assessment (PSA) of the subject parcel. The scope of work executed at the site was performed in general accordance with Solutions-IES proposal NC101062 revised March 1, 2010, and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on March 3, 2010, under contract 7000010453, dated June 25, 2009.

2.0 BACKGROUND AND SITE DESCRIPTION

A&M Realty Company owns Parcel #2 where Piedmont Garage Doors currently operates. It is located in the northwest quadrant of Martin Luther King Jr. Drive and US 52 exit ramp. According to the Environmental Protection Agency (EPA) Facility Registry System (FRS), this facility was EDMAC Compressor Company with an EPA registry ID number 110004013576. The PSA was performed along the proposed right-of-way (ROW) and/or easement stretching west to east along the south side of the storefront and continuing along a north to south trend parallel to the US 52 south exit ramp. Work was not performed in areas of the properties outside of the proposed ROW and/or easement. Photographs of the site are included in **Appendix A**.

3.0 FIELD ACTIVITIES

Prior to mobilizing to the site to conduct work, Solutions-IES contacted North Carolina One Call 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 March 9 and March 15, 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 portions within the proposed ROW and/or easement at Parcel #2 do not contain metallic underground storage tanks (USTs). Images of the EM and GPR findings are included in the geophysical report included as **Appendix B**. After a review of the geophysical report, Solutions-IES mobilized to the site on March 29, 2010, to collect soil samples. Twelve borings were advanced to a depth of 8 feet below

ground surface (ft bgs). Nine soil borings were advanced using a Geoprobe[®]. Three borings were advanced by hand using a 4-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 C**.

A Macro-Core[®] sampler fitted with a dedicated polyvinyl chloride (PVC) liner was used to collect samples at 2-foot intervals using the Geoprobe[®]. Hand augured samples were collected in 1-foot intervals and placed on plastic sheeting. 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 petroleum staining or odor. That information was subsequently transferred onto boring logs. The boring logs are provided in **Appendix D** and the field screening results are summarized in **Table 1**. The field screening results are also shown on the boring logs.

The subsurface at the site generally consisted of red to brown clays overlying brown to gray silts and sands (Unified Soil Classification CL to ML-SM). Exceptionally moist soils were encountered at borings P2-1 through P2-5 to depths between 4 ft and 8 ft bgs. The extent of moisture observed in P2-1 through P2-5 suggests that soil may have contact with water from the surface or groundwater that could potentially influence contaminant concentrations along the sampling interval. All other borings on Parcel #2 had dry to moderately moist soils to 8 ft bgs.

Table 1 shows the FID field screening results of the soils ranged from not detected to 26.2 parts per million (ppm). One soil sample was collected from each boring at the interval identified in **Table 1**. Soil samples from P2-1 through P2-5 were collected above the 4 ft bgs intervals to minimize the potential that the samples were in contact with water. Each collected sample was 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 diesel range organics and gasoline range organics (TPH DRO/GRO) by EPA Methods 3545/8015, volatile organic compounds (VOCs) using EPA

Method 8260, semi-volatile compounds (SVOCs) using EPA Method 8270 and metals using EPA Methods 7471/6010.

4.0 LABORATORY RESULTS

The laboratory analytical results indicate the presence of TPH (DRO), VOCs, SVOCs, and metals at concentrations above the laboratory reporting limits at Parcel #2. Specifically, TPH(DRO) was detected at concentrations above the North Carolina Department of Environment and Natural Resources (NCDENR) soil to groundwater maximum soil contaminant concentration (MSCC) standard for non-UST petroleum releases of 40 milligrams per kilogram (mg/kg) at boring P2-1, as specified in *UST Section Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases (NCDENR, Division of Waste Management [DWM], UST Section, July 1, 2007)*. The non-UST petroleum release MSCCs were used as comparison since the source of contamination at the site is unknown and no USTs were detected within the proposed right-of-way and/or easement. The VOC trichloroethene, typically associated with solvents and not petroleum constituents, was detected at concentrations above the soil to groundwater MSCC standard at boring P2-2. The presence of SVOCs (benzo(a)anthracene, benzo(a)pyrene, and/or dibenzo(a,h)anthracene) were identified at borings P2-1, P2-3, P2-4, and P2-5 at concentrations exceeding the respective soil to groundwater MSCC standards. Chromium and/or lead concentrations exceeded the soil to groundwater MSCC standards at borings P2-1 through P2-10. The analytical results are summarized in **Table 2**, and the laboratory report is included in **Appendix E**. Gasoline range organics TPH (GRO) were not detected above the laboratory reporting limit in any soil sample.

5.0 DISCUSSION/CONCLUSIONS

The geophysical survey conducted at the site suggested that no buried metallic objects such as a UST are present within the surveyed portion of the proposed ROW and/or easement. Solutions-IES advanced 12 soil borings at the study area to a depth of 8 ft bgs. The highest FID reading measured 26.2 ppm in boring P2-5 at a depth of 4 to 6 ft bgs. Soil samples from 5 of the 12 borings (P2-1 through P2-5) indicate the presence of TPH (DRO), VOCs, and/or SVOCs in excess of the soil to groundwater MSCC standards. Soil samples from 10 of the 12 borings (P2-1 through P2-10) indicate the presence of chromium and/or lead in excess of the soil to groundwater MSCC standards.

Since chromium and lead were detected in each of the 12 site borings, there is the potential that both constituents may be naturally present in soils in the area. However, additional investigation may be necessary to confirm the background concentrations of chromium and lead.

The approximate total volume of soil with contaminants of concern in excess of the soil to groundwater MSCC standards within the study area at Parcel #2 is estimated at 1,680 cubic yards. The extent of contamination defined within the proposed ROW and/or easement is illustrated in **Figure 3**. From the base drawing provided by NCDOT, it appears that the installation of a guardrail and potentially a retaining wall are planned in the vicinity of the borings advanced by Solutions-IES, and that impacted soil may be excavated during construction activities performed by NCDOT. Therefore, Solutions-IES recommends that NCDOT be prepared to monitor, transport, and dispose of impacted soil during construction activities and also consider exposure of workers to impacted soil. Additional assessment would be necessary to identify the source of the contamination in soil and if groundwater has been impacted.

TABLES

TABLE 1
Summary of Field Screening Results for Soil
NCDOT Parcel #2
1151 MartinLuther King Jr. Drive
Winston-Salem, North Carolina
WBS Element: 34871.2.1; State Project: U-2826B
Sample Collection Date: March 30, 2010

Sample Depth Below Ground Surface	Soil Boring											
	P2-1	P2-2	P2-3	P2-4	P2-5	P2-6	P2-7	P2-8	P2-9	P2-10	P2-11	P2-12
	FID Reading (ppm)											
0 - 2 feet	0.0	0.5	0.7	1.1	0.0	0.1	1.9	1.8	0.2	0.4	0.0	0.0
2 - 4 feet	0.2	3.5	0.7	0.8	1.0	0.3	1.5	1.3	0.4	0.1	0.0	0.0
4 - 6 feet	0	0.7	1.7	1.2	26.2	0.0	2.2	1.4	0.0	0.0	0.4	0.4
6 - 8 feet	22.7	3.4	1.0	0.9	1.7	0.0	2.0	1.2	0.5	0.0	0.3	0.4

Notes:

Samples denoted by shaded cells were submitted for laboratory analysis.

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

ppm = parts per million

**TABLE 2
SUMMARY OF SOIL SAMPLE RESULTS
NCDOT Parcel #2
1151 Martin Luther King Jr. Drive
Winston-Salem, North Carolina
WBS #: 34871.2.1; State Project #: U-2826B
Solutions-IES Project Number: 3944.10A3.NDOT**

Analytical Method (e.g., VOC by EPA 8260)		TPH DRO by 3545/8015B	TPH GRO by 8015B	VOC by EPA 8260B			SVOC by EPA 8270B														Metals by EPA 7471A	Metals by EPA 6010B							
Units		mg/kg		ug/kg			ug/kg														mg/kg	mg/kg							
Contaminant of Concern		TPH DRO	TPH GRO	Acetone	cis-1,2-Dichloroethene	Trichloroethene	2-Methylnaphthalene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) flouroanthene	Benzo(g,h,i) perylene	Benzo(k) flouroanthene	Bis(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene	Mercury	Arsenic	Barium	Cadium	Chromium	Lead	Selenium	Silver
Sample ID	Date Collected (m/dd/yyyy)																												
P2-1-2-4	3/30/2010	43	<5.8	35	<4.7	<4.7	<380	150 J	940	1100	1700	450	720	<380	990	150 J	1700	610	<380	890	1600	0.22	4.4	160	2.8	31	530	1.2 J	<0.29
P2-2-2-4	3/30/2010	39	<7.2	33	18	38	<470	<470	<470	<470	<470	<470	<470	<470	<470	<470	<470	<470	<470	<470	<470	1.1	12	130	2.9	31	260	<3.6	<0.36
P2-3-2-4	3/30/2010	18	<6.7	70	<6.8	<6.8	<440	<440	300 J	300 J	400 J	120 J	180 J	<440	300 J	<440	580	170 J	<440	380 J	540	0.41	5.1	140	1.8	55	87	<3.3	<0.33
P2-4-2-4	3/30/2010	<8.4	<6.0	30	<5.4	<5.4	110 J	160 J	640	670	1000	350 J	390 J	110 J	590	<390	1400	460	110 J	1000	1300	0.10	3.4	140	1.2	15	410	4.3	<0.3
P2-5-0-2	3/30/2010	38	<5.3	17 J	<4.5	<4.5	<350	<350	300 J	300 J	460	160 J	170 J	<350	280 J	<350	580	220 J	<350	380	530	0.43	9.1	140	2.4	29	770	<2.7	<0.27
P2-6-6-8	3/30/2010	<8.3	<6.0	<19	<4.8	<4.8	<390	<390	<390	<390	<390	<390	<390	<390	<390	<390	<390	<390	<390	<390	<390	0.051	2.7	52	1.5	55	16	<3.0	<0.30
P2-7-6-8	3/30/2010	<8.6	<6.1	<20	<4.9	<4.9	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	0.030	<0.61	140	2.7	32	17	<3.1	<0.31
P2-8-6-8	3/30/2010	<8.5	<6.1	<17	<4.3	<4.3	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	0.072	2.7	32	1.1	33	17	2.0 J	<0.31
P2-9-6-8	3/30/2010	<7.8	<7.8	13 J	<6.2	<6.2	<510	<510	<510	<510	<510	<510	<510	<510	<510	<510	<510	<510	<510	<510	<510	0.051	3.4	130	1.3	41	14	3.6 J	<0.39
P2-10-6-8	3/30/2010	<9.1	<6.6	15 J	<5.6	<5.6	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430	0.073	3.6	45	1.4	56	21	1.5 J	<0.33
P2-11-6-8	3/30/2010	<9.5	<6.8	<26	<6.4	<6.4	<450	<450	<450	<450	<450	<450	<450	<450	<450	<450	<450	<450	<450	<450	<450	0.031	2.9	95	1.5	14	38	1.2 J	<0.34
P2-12-6-8	3/30/2010	<7.8	<7.8	<27	<6.7	<6.7	<520	<520	<520	<520	<520	<520	<520	<520	<520	<520	<520	<520	<520	<520	<520	0.033	2.7	32	1.2	11	37	4.2	<0.39
Soil to groundwater MSCC		40	10	2,800	350	18	1,700	1,000,000	340	91	1,200	6,700,000	12,000	5,600	38,000	170	280,000	3,300	580	60,000	290,000	NS	NS	848	NS	27	270	NS	0.23

ft bgs = feet below ground surface
ug/kg =micrograms per kilogram
mg/kg = milligram per kilogram
NS = No Standard
MSCC = Maximum Soil Contamination Concentrations
Bold values indicate detection above laboratory reporting limit.
Shaded values exceed soil to groundwater MSCC

FIGURES

PROJECT NUMBER
3944.10A3.NCDOT

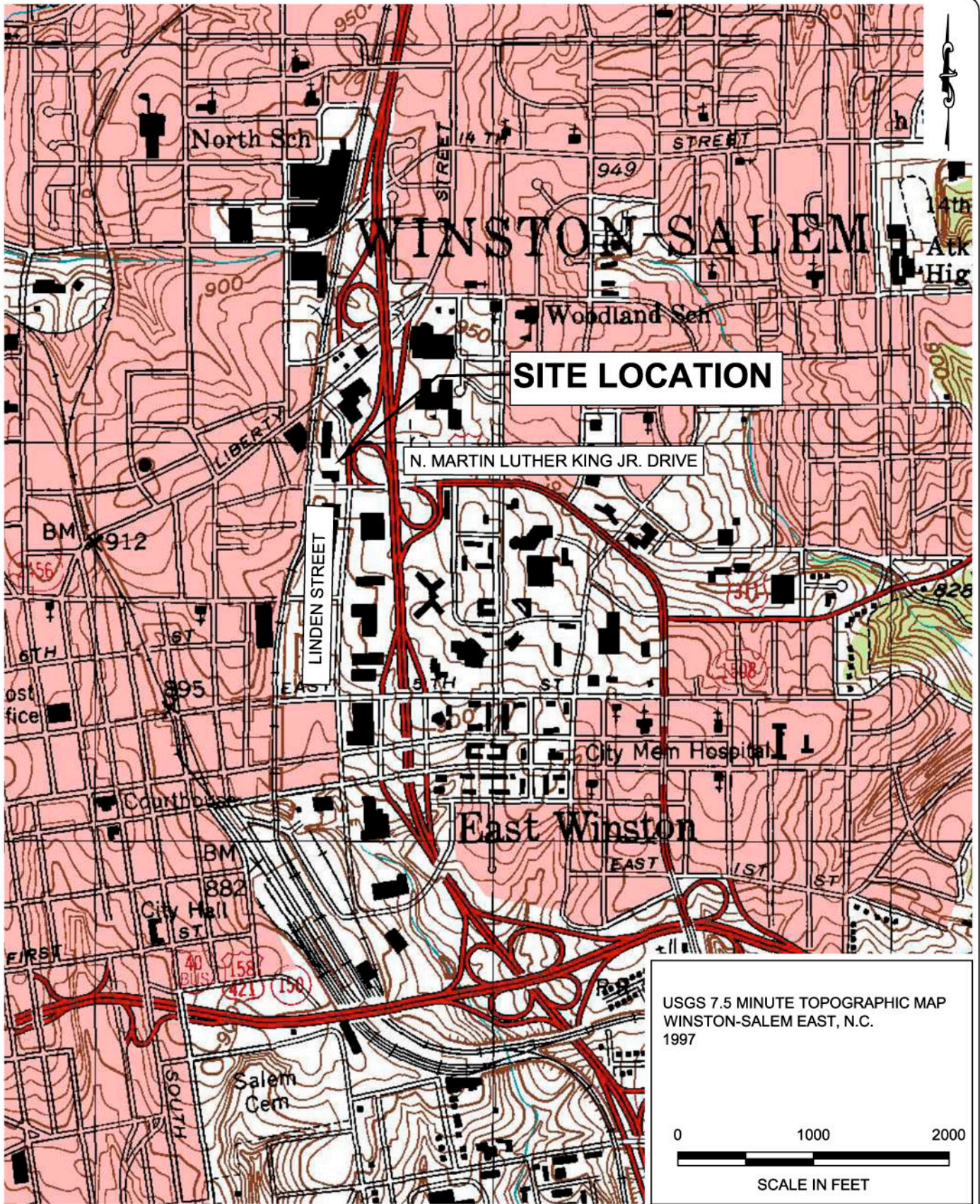
DRAFTER
HRG

CHECKED BY
BE

PROJECT MANAGER
JO

DATE
04/13/2010

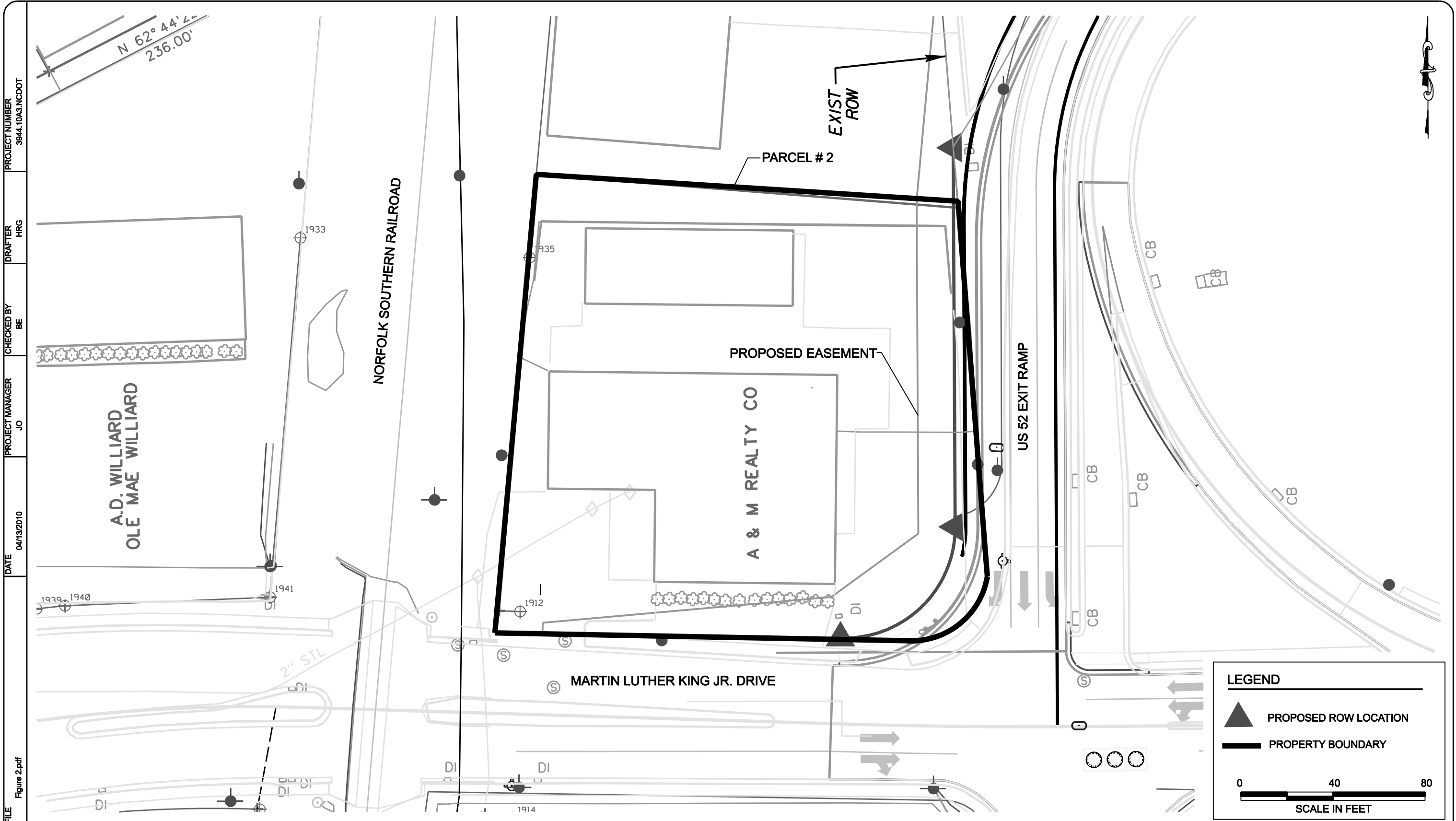
FILE
Figure 1.pdf



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PARCEL # 2
1151 MARTIN LUTHER KING JR. DRIVE
WINSTON-SALEM, NORTH CAROLINA
STATE PROJECT: U-2826B
WBS ELEMENT: 34871.2.1

FIGURE:
1



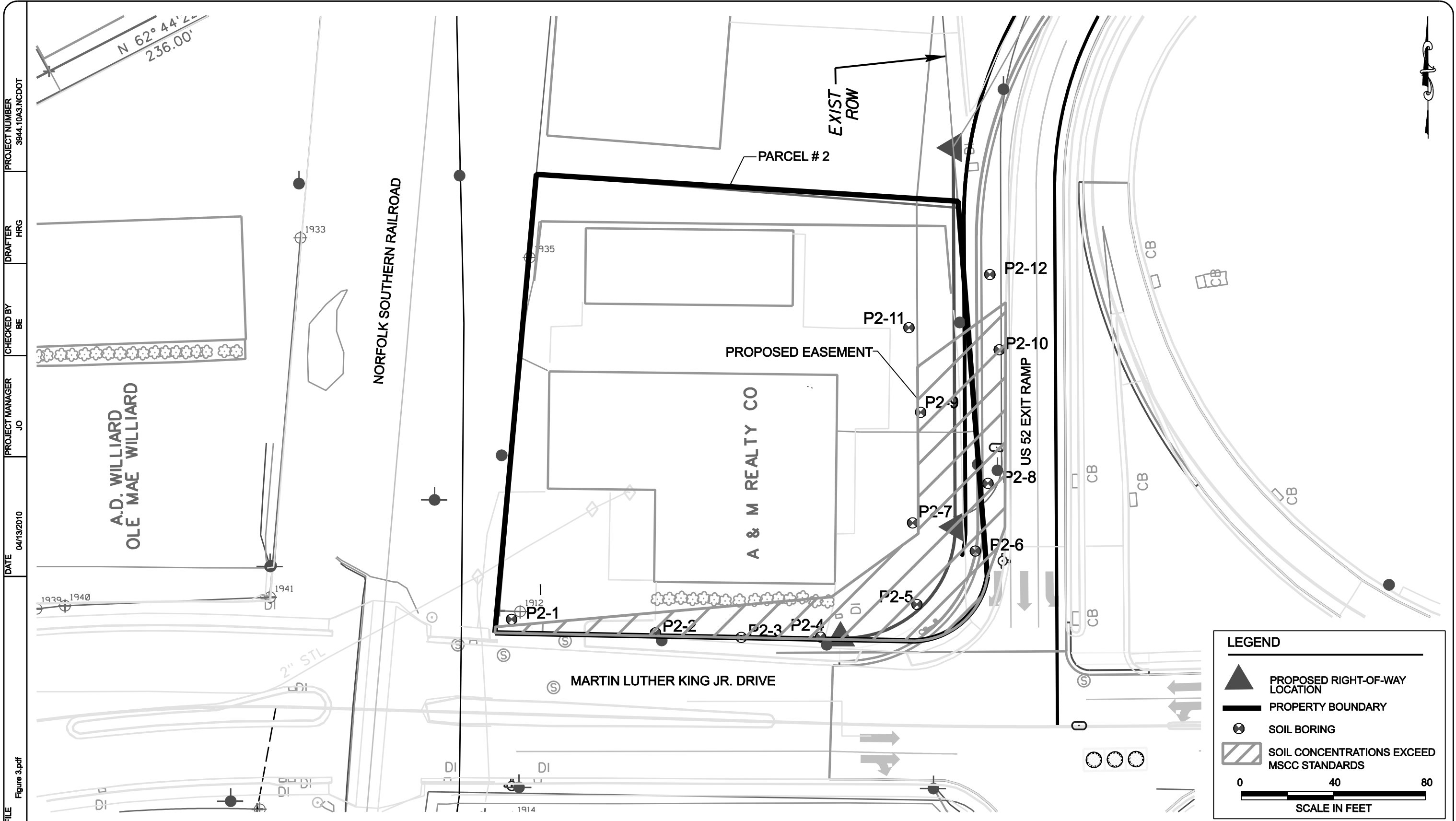
PROJECT NUMBER 3944.10A3.NCDDOT
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SITE MAP

FIGURE:
2



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SOIL BORING LOCATIONS

FIGURE:
3

APPENDIX A
PHOTOGRAPHS

Appendix A - Photographs



Photograph 1 – View of Parcel #2 store front, looking north from Martin Luther King Jr. Drive.



Photograph 2 – View of Parcel #2 looking northwest.

Appendix A - Photographs



Photograph 3 – View of Parcel #2 looking south.



Photograph 4 – View of Parcel #2 looking south.

APPENDIX B
GEOPHYSICAL REPORT

GEOPHYSICAL INVESTIGATION REPORT

GEOPHYSICAL SURVEYS FOR THE DETECTION OF METALLIC USTs

**Akron Drive & Martin Luther King Jr. Drive Sites
Winston-Salem, North Carolina
Preliminary Site Assessments State Project #U2826B**

March 26, 2010

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GEOPHYSICAL INVESTIGATION REPORT
Akron Drive & Martin Luther King, Jr. Drive Sites
Winston-Salem, North Carolina
Preliminary Site Assessments State Project #U2826B

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FIGURES

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Figure 4	American Pawn & Burgerbusters Properties - EM61 Differential Results
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Figure 6	A & M Realty Company Property - EM61 Differential Results
Figure 7	M. M. Fowler Property - EM61 Bottom Coil Results
Figure 8	M. M. Fowler Property - EM61 Differential Results

1.0 INTRODUCTION

Pyramid Environmental & Engineering, PC conducted geophysical investigations for Solutions - IES during the period of March 8-16, 2010, within the proposed Right-of-Way (ROW) areas at five sites located along Akron Drive and Martin Luther King, Jr. Drive in Winston-Salem, North Carolina. The work was done as part of the North Carolina Department of Transportation (NCDOT) Preliminary Site Assessments State Project #U2826B. The geophysical surveys were conducted to determine if unknown metallic underground storage tanks (UST's) were present beneath the proposed ROW area of each site.

Solutions - IES representative Ms. Jessica Keener, PE provided maps and site photographs during the week of February 15, 2010 that outlined the geophysical survey area of each site. Ms. Keener also provided project management during the geophysical investigation of the sites. The following, listed in geographical order from northern-most to southern-most locations, are the five sites in which geophysical investigations were conducted within the proposed ROW areas.

<u>Property Owner</u>	<u>Parcel</u>	<u>Present Use of Property</u>
Meryl B. Mabe Property	none	Randy Moore's Auto Repair
American Pawn & Jewelry Property	7	Cash America Pawn Shop
Burgerbusters Iii, LLC Property	6	Taco Bell Restaurant
A & M Realty Property	2	Piedmont Garage Doors
M. & M. Fowler Property	29	BP Gas Station/Store

Photographs of the geophysical equipment used in this investigation and the geophysical survey areas of the five sites are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigations at the five Winston-Salem sites, a 10-foot by 10-foot survey grid was established across each of the geophysical survey areas using measuring tapes,

pin flags and water-based marking paint. These grid marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. All of the EM61 data were digitally collected at 0.8 foot intervals along northerly-southerly (X-axis) or easterly-westerly (Y-axis), parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

Upon processing and review of the EM61 metal detection data, ground penetrating radar (GPR) surveys were conducted across selected EM61 differential anomalies, areas containing steel reinforced concrete and around areas that contained parked vehicles when the metal detection surveys were conducted. GPR data were collected using a Geophysical Survey Systems 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 2.5 to 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 5.0 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.

Contour plots of the EM61 bottom coil and differential results are presented in this report for each of the five sites. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top

and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drums and USTs and ignore the smaller insignificant metal objects.

Preliminary geophysical results obtained from the five Winston-Salem sites were reported to Ms. Keener during the weeks of March 15 and March 22, 2010.

3.0 DISCUSSION OF RESULTS

3.1 Meryl B. Mabe Property

The Meryl B. Mabe property is located at 3810 Leo Street and contains the Randy Moore's Auto Repair & Towing facility. The ROW area consists primarily of flat-lying asphalt pavement with non-operating, parked vehicles. The EM61 bottom coil and differential metal detection results are presented in **Figures 2**. GPR surveys were conducted across several of the differential anomalies and a GPR reconnaissance was conducted around the parked, non-operating vehicles.

The linear EM61 metal detection anomalies intersecting grid coordinates X=340 Y=360 and X=340 Y=405 are probably in response to the metallic fence that runs along the edge of the property. GPR data suggest that the negative EM61 differential anomalies (contours shaded in green) centered near grid coordinates X=316 Y=360, X=330 Y=440 and X=330 Y=470 are probably in response to the parked vehicles. The negative differential anomalies centered near grid coordinates X=345 Y=432 and X=345 Y=447 are probably in response to a water meter and a storm sewer drain, respectively.

The geophysical results suggest that the proposed ROW area at the Meryl B. Mabe property does not contain metallic USTs.

3.2 American Pawn & Jewelry – Burgerbusters, Iii, LLC Properties (Parcels 7 & 6)

The American Pawn & Jewelry property (Parcel 7) is located at 3800 Leo Street and contains the Cash America Pawn Shop. The proposed ROW area consists primarily of flat-lying asphalt or grass

surfaces and includes the east-west trending asphalt access road that runs from the pawn shop parking area to Sheridan Street. The Burgerbusters, Iii, LLC property is located immediately south of Parcel 7 at 349 Akron Drive. The property consists of a Taco Bell Restaurant and lies along the intersection of Akron Drive and Leo Street. The proposed ROW area at Parcel 6 consists of the asphalt access road that runs parallel to Leo Street and terminates in the Taco Bell parking lot and the grass island between the access road and Leo Street. The EM61 bottom coil and differential metal detection results obtained across the proposed ROW areas for the American Pawn and Burgerbusters properties are presented in **Figures 3 and 4**, respectively.

The linear, EM61 bottom coil anomalies intersecting grid coordinates X=15 Y=190, X=280 Y=154 and X=300 Y=324 are probably in response to buried utility lines or conduits. Similarly, the series of linear northeast-southwest trending bottom coil anomalies intersecting grid coordinates X=265 Y=170 may be in response to a buried line or conduit. The numerous bottom coil anomalies located along the grass island immediately west of Leo Street are probably in response to known surface objects or utility-related equipment or lines. GPR data suggest the high amplitude bottom coil anomalies (contours shaded in red) centered near grid coordinates X=237 Y=135 and X=280 Y=130 are in response to the Taco Bell drive thru-related equipment and the large sign poles, respectively.

GPR data suggest the higher amplitude EM61 differential anomaly centered near grid coordinates X=293 Y=300 is in response to utility-related equipment and/or lines. GPR data collected across the negative differential anomalies centered near grid coordinates X=210 Y=203 and X=227 Y=220 are in response to the steel reinforced concrete sidewalk, the pawn shop building and metallic bollards. The negative linear anomaly intersecting grid coordinates X=300 Y=350 is probably in response to the metallic fence. The geophysical investigation suggests that the surveyed portions of Parcels 7 & 6 (proposed ROW areas) do not contain unknown, metallic USTs.

3.3 A & M Realty Company Property (Parcel 2)

The A & M Realty Company property (Parcel 2) is located at 1151 North Martin Luther King, Jr. Drive and contains the Piedmont Garage Doors facility. The proposed ROW area consists of asphalt,

concrete and grass surfaces and includes the eastern and southern portions of the property. The EM61 bottom coil and differential metal detection results obtained across the proposed ROW area at the A & M Realty property are presented in **Figures 5 and 6**, respectively.

The linear, EM61 bottom coil anomalies intersecting grid coordinates X=230 Y=120 and X=249 Y=150 are probably in response to the metallic fence line. The linear bottom coil anomalies intersecting grid coordinates X=60 Y=52, X=75 Y=60, X=220 Y=74, and X=240 Y=53 are probably in response to buried utility lines or conduits. GPR data suggest that the bottom coil anomalies centered near grid coordinates X=120 Y=57 and X=170 Y=55 are in response to the building.

GPR data suggest the EM61 differential anomalies centered near grid coordinates X=225 Y=176 are in response to the dumpsters and metal fence line. Similarly, GPR data suggest the negative differential anomaly centered near grid coordinates X=195 Y=65 is in response to the parked vehicle that was present during the EM61 survey. The remaining negative differential anomalies are probably in response to known surface objects or utility-related equipment. The geophysical investigation suggests that the surveyed portions of Parcel 2 (proposed ROW area) do not contain unknown, metallic USTs.

3.4 M. M. Fowler Property (Parcel 29)

The M. M. Fowler property (Parcel 29) is located at 105 North Martin Luther King, Jr. Drive and contains a BP gas station/store facility. The proposed ROW area consists of asphalt, concrete and grass surfaces and includes the western and southern portions of the property. The EM61 bottom coil and differential metal detection results obtained across the proposed ROW area at the Fowler property are presented in **Figures 7 and 8**, respectively

The linear, EM61 bottom coil anomalies recorded along the edge of Martin Luther King, Jr. Drive and adjacent to East 1st Street (which intersect grid coordinates X=14 Y=140 and X=35 Y=36) are probably in response to buried utility lines. Similarly, the linear bottom coil anomalies intersecting grid coordinates X=27 Y=174 and X=84 Y=26 are probably in response to buried utility lines or

conduits. GPR data suggest that the high amplitude bottom coil anomalies or series of differential anomalies centered near grid coordinates X=30 Y=140 and X=90 Y=70 are in response to steel reinforced concrete.

GPR data suggest the negative EM61 differential anomalies centered near grid coordinates X=28 Y=60 and X=48 Y=76 are in response to the sign poles, telephones and bollards. The remaining differential anomalies are probably in response to known surface objects or utility line-related equipment. The geophysical investigation suggests that the surveyed portions of Parcel 29 (proposed ROW area) do not contain unknown, metallic USTs.

4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 & GPR data acquired across the proposed ROW areas at the five sites located along Akron Drive and Martin Luther King Jr. Drive in Winston-Salem, North Carolina, provides the following summary and conclusions:

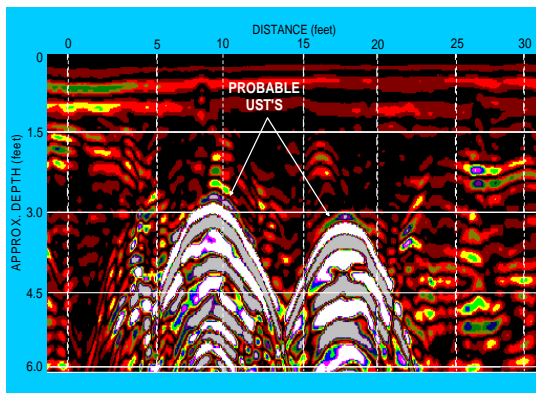
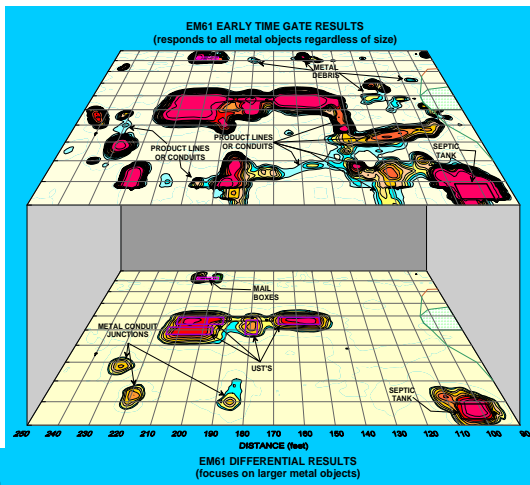
- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portions of the sites.
- GPR data suggest that the EM61 differential anomalies recorded at the Meryl B. Mabe property (Tommy Moore's Auto Repair) are in response to the metal fence line, parked, non-operating vehicles or utility-related equipment.
- The geophysical results suggest that the proposed ROW area at the Meryl B. Mabe property does not contain metallic USTs.
- At the American Pawn and Burgerbusters properties (Parcels 7 & 6), GPR data suggest the higher amplitude EM61 differential anomaly centered near grid X=293 Y=300 is in response to utility-related equipment and/or lines. GPR data collected across the remaining negative

differential anomalies are in response to the steel reinforced concrete sidewalk, building, metallic bollards or metallic fence.

- The geophysical investigation suggests that the surveyed portions of Parcels 7 & 6 (proposed ROW areas) do not contain unknown, metallic USTs.
- GPR data acquired at the A & M Realty Company property (Parcel 2) suggest the negative EM61 differential anomalies are in response to dumpsters, a park vehicle, metal fence, known surface objects, or utility-line related equipment.
- The geophysical investigation suggests that the surveyed portions of Parcel 2 (proposed ROW area) do not contain unknown, metallic USTs.
- GPR data acquired at the M. M. Fowler property (Parcel 29) suggest the negative EM61 differential anomalies are in response to steel reinforced concrete, sign poles, possible abandoned wells, known surface objects, or utility-line related objects.
- The geophysical investigation suggests that the surveyed portions of Parcel 29 (proposed ROW area) do not contain unknown, metallic USTs.

5.0 LIMITATIONS

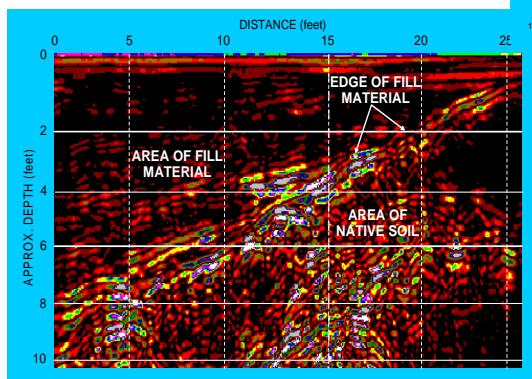
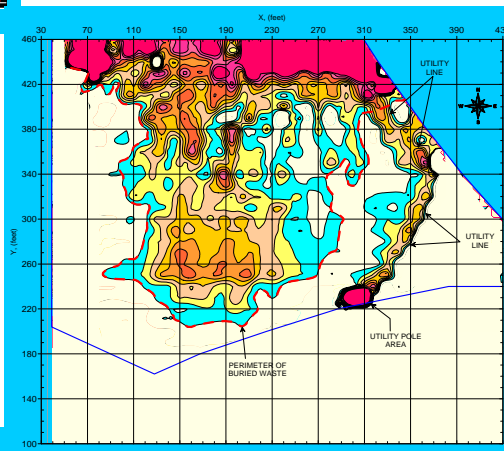
EM61 and GPR surveys have been performed and this report prepared for Solutions-IES in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR surveys are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained across the proposed ROW areas at the five sites located in Winston-Salem have not conclusively determine that the surveyed portions of the sites do not contain buried, unknown, metallic USTs, but that none were detected.



FIGURES

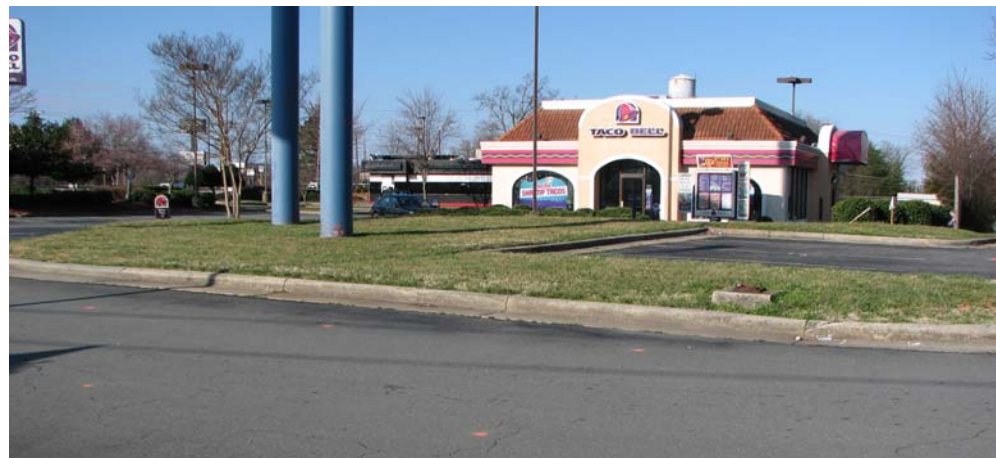
(on the following pages)

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





MERYL B. MABE PROPERTY
 RANDY MOORE'S AUTO REPAIR & TOWING
 3810 LEO STREET



BURGERBUSTERS III, LLC PROPERTY (PARCEL 6)
 TACO BELL RESTAURANT
 349 AKRON DRIVE



AMERICAN PAWN & JEWELRY PROPERTY (PARCEL 7)
 CASH AMERICA PAWN SHOP
 3800 LEO STREET



A & M REALTY COMPANY PROPERTY (PARCEL 2)
 PIEDMONT GARAGE DOORS FACILITY
 1151 N. MARTIN LUTHER KING, JR. DRIVE



ACCESS ROAD LOCATED BETWEEN AMERICAN
 PAWN & BURGERBUSTERS PROPERTIES
 3800 LEO STREET



M. M. FOWLER PROPERTY - (PARCEL 29)
 BP GAS STATION/STORE
 105 N. MARTIN LUTHER KING, JR. DRIVE

GEOPHYSICAL EQUIPMENT



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey at the sites in Winston-Salem, North Carolina. The EM61 surveys were conducted during the week of March 8, 2010



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at the sites in Winston-Salem, North Carolina. The GPR surveys were conducted during the week of March 15, 2010.

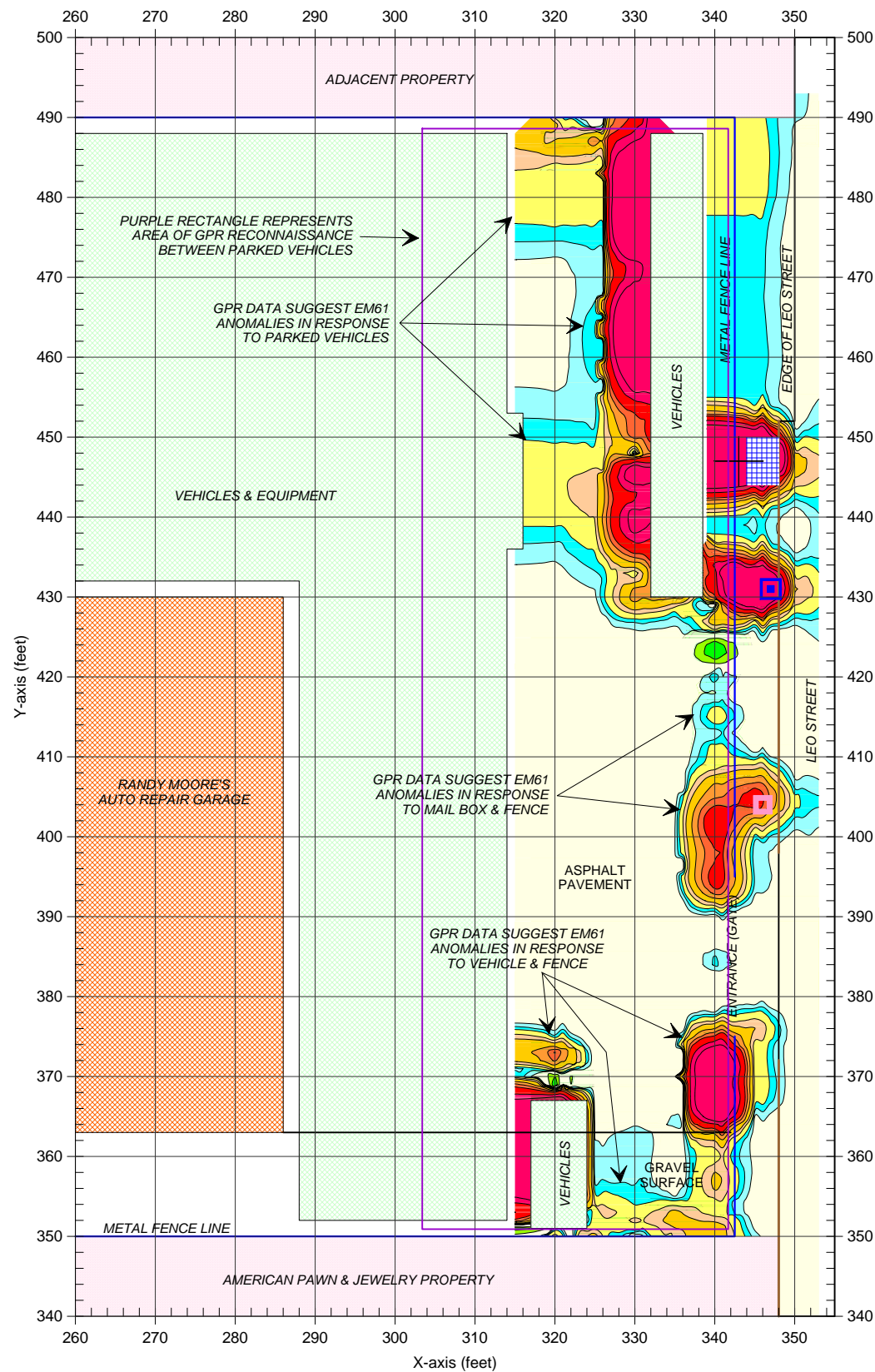
SITE PHOTOGRAPHS

This figure shows the photographs of the five sites located along Akron Drive or Martin Luther King, Jr. Drive in Winston-Salem, North Carolina where geophysical investigations were conducted within the ROW areas for the detection of unknown, metallic USTs.

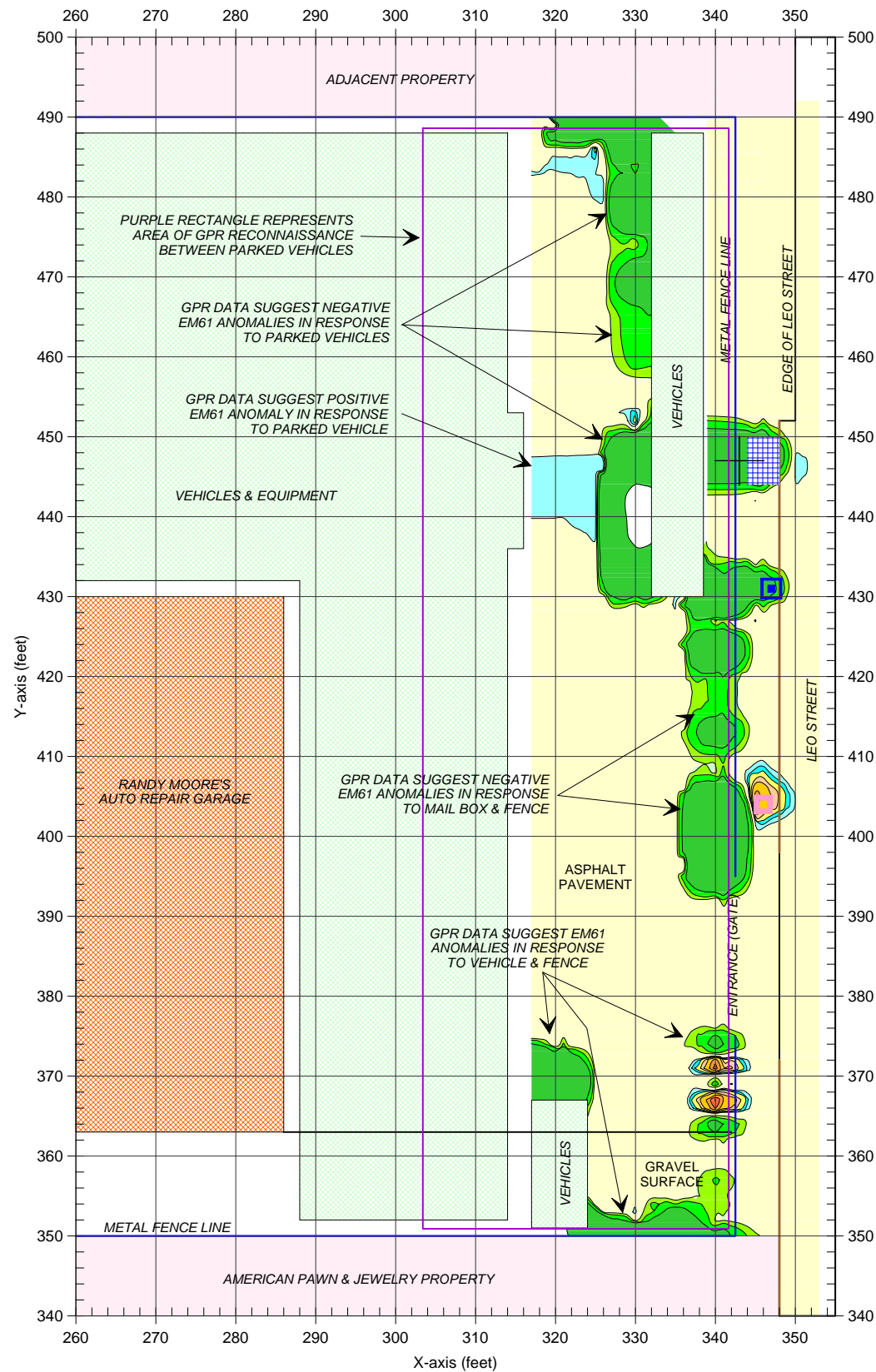
CLIENT	AKRON DRIVE & MARTIN LUTHER KING, JR. DRIVE SITES
SITE	WINSTON-SALEM
CITY	WINSTON-SALEM
STATE	NORTH CAROLINA
TITLE	GEOPHYSICAL RESULTS
DATE	03/25/10
DWG	
LAY	
FIGURE	2006-200
DATE	03/25/10
DRWN	
CHKD	
MJD	
GRAPHIC SCALE IN FEET	

SOLUTIONS IES





BOTTOM COIL RESULTS

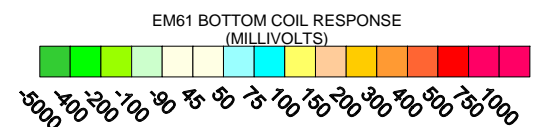


DIFFERENTIAL RESULTS



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS TRENDING LINES SPACED 5 FEET APART
- GPR RECONNAISSANCE AREA
- BUILDING
- FENCE LINE
- MAIL BOX
- RIGHT-OF-WAY MARKER
- ROAD SIGN
- STORM SEWER GRATE
- UTILITY LINE BOX
- PARKED VEHICLES OR EQUIPMENT
- WATER METER BOX



Note: The contour plot shows the bottom coil (most sensitive) response and the differential response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The differential response focuses on larger, buried metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris. The EM61 survey was collected on March 10, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 15, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

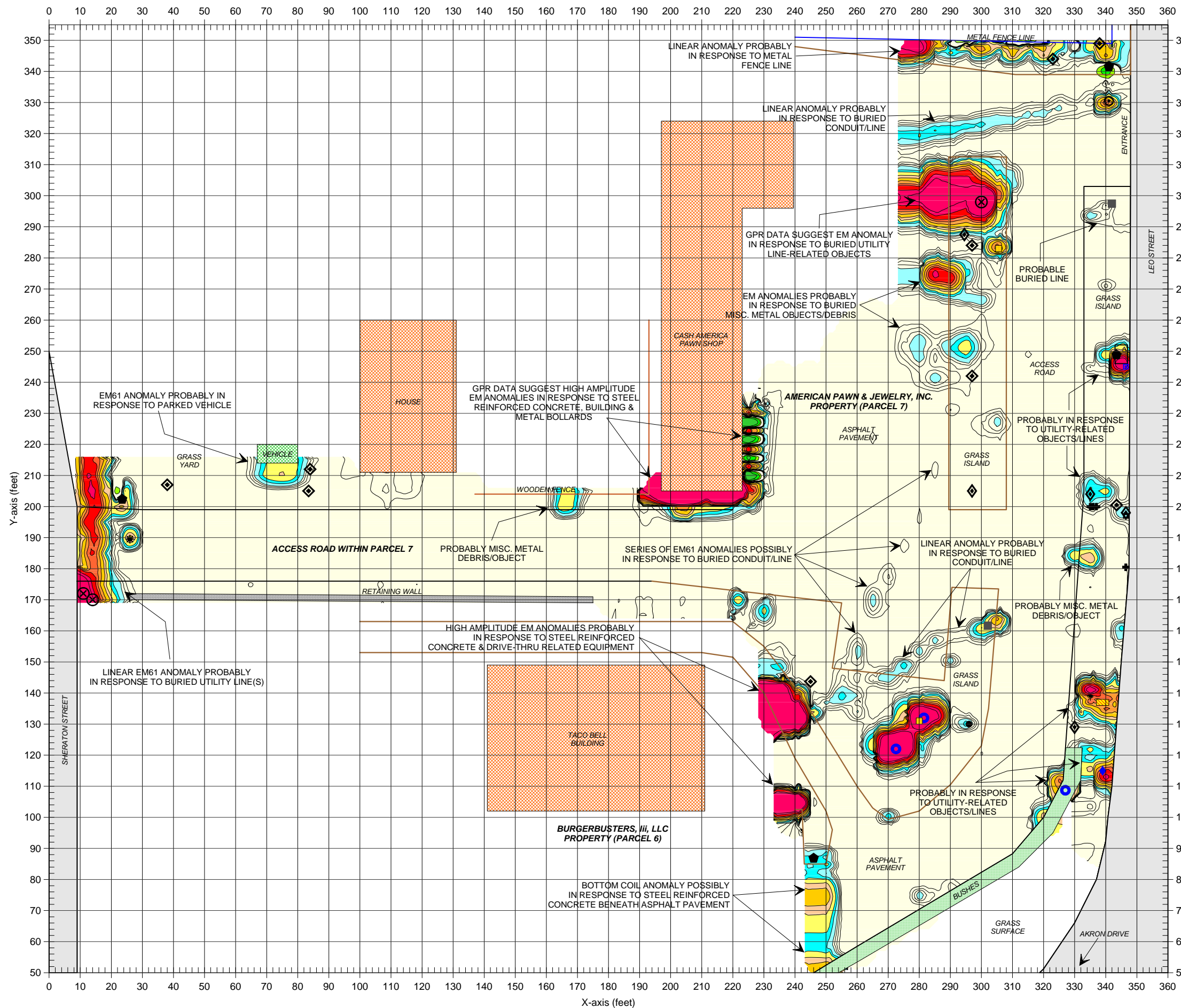
The geophysical investigation suggests that the surveyed portion of the property does not contain metallic USTs.

EM61 METAL DETECTION RESULTS

FIGURE 2

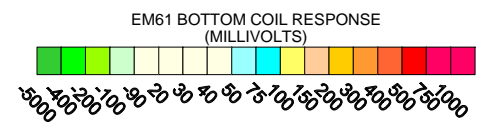
CLIENT	MJD	DATE	DRAWN	FIGURE	L-NO.
SOLUTIONS-IES		03/25/10			2010-044
MERYL B. MABE PROPERTY (RANDY MOORE'S AUTO)					
WINSTON-SALEM					
NORTH CAROLINA					
GEOPHYSICAL RESULTS					

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



LEGEND

[Yellow box]	SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
[Orange box]	BUILDING
[Circle with cross]	STORM SEWER COVER
[Orange rectangle]	BUSINESS SIGN
[Blue circle]	BUSINESS SIGN POLE
[Orange line]	CONCRETE CURBING
[Yellow rectangle]	ELECTRICAL BOX OR AIR PUMP
[Cross symbol]	GUY WIRE
[Black circle]	MONITORING WELL
[Diamond with cross]	RIGHT-OF-WAY MARKER
[Black pentagon]	ROAD SIGN
[Blue square]	STORM SEWER GRATE
[Star symbol]	GAS VALVE COVER
[Diamond]	UTILITY POLE
[Black square]	UTILITY LINE BOX
[Green hatched box]	VEHICLE
[Blue square]	WATER METER BOX
[Circle]	VALVE COVER
[Blue diamond]	FIRE HYDRANT
[Black square]	CONCRETE ABUTMENT



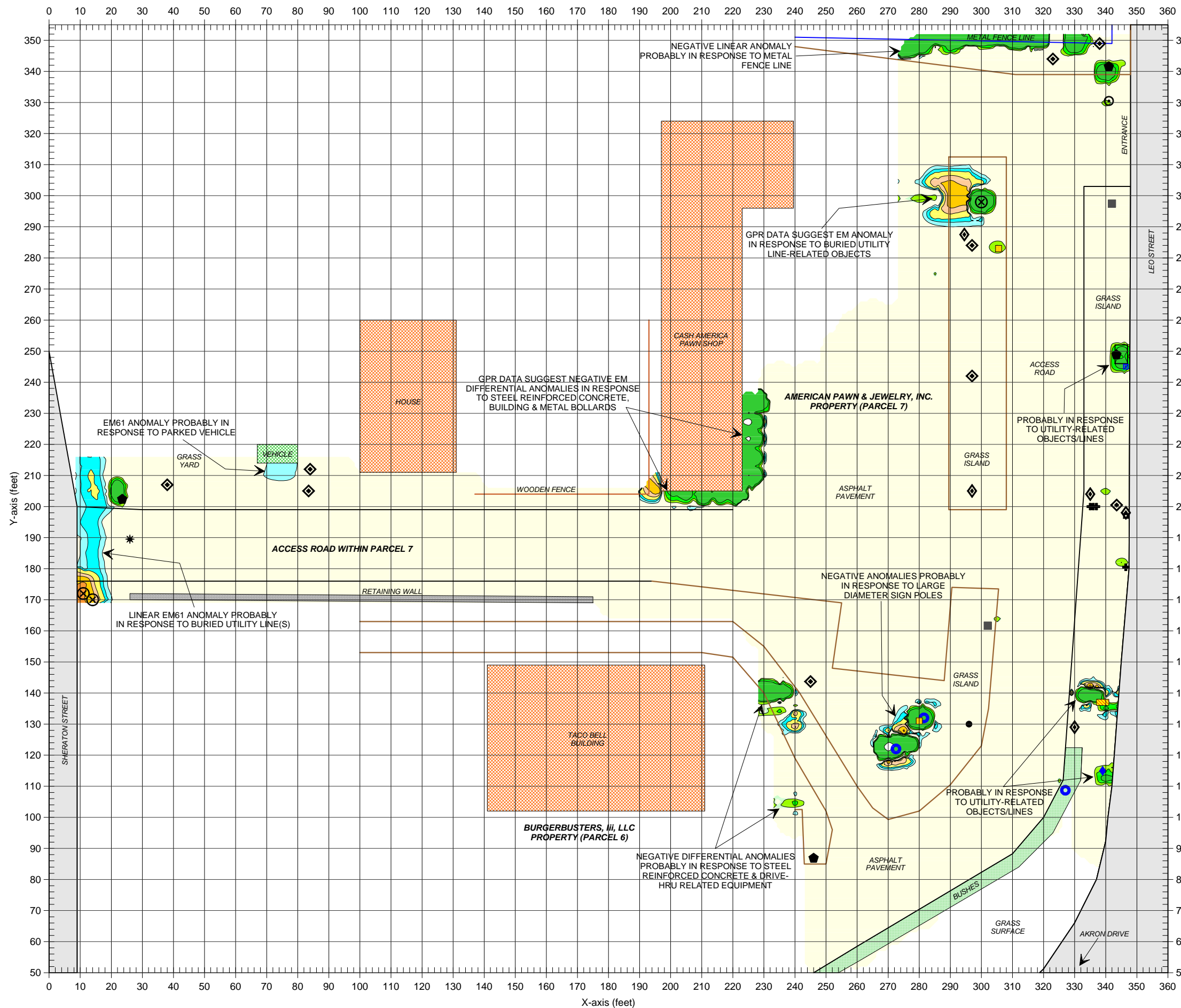
The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on March 9, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 15, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggests that the surveyed portions of Parcels 6 & 7 do not contain metallic USTs.

EM61 METAL DETECTION (BOTTOM COIL RESULTS)

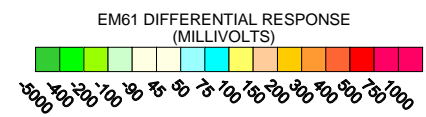
FIGURE 3

CLIENT	SOLUTIONS-IES	DATE	MJD	FIGURE
AMERICAN PAWN & BURGERBUSTERS PROPERTIES (PARCELS 7&6)		03/25/10		
SITE	STATE	DWG	L-NO.	FIGURE
WINSTON-SALEM	NORTH CAROLINA		2010-044	
TITLE		GEOPHYSICAL RESULTS		
 PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.				



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- STORM SEWER COVER
- BUSINESS SIGN
- BUSINESS SIGN POLE
- CONCRETE CURBING
- ELECTRICAL BOX OR AIR PUMP
- GUY WIRE
- MONITORING WELL
- RIGHT-OF-WAY MARKER
- ROAD SIGN
- STORM SEWER GRATE
- GAS VALVE COVER
- UTILITY POLE
- UTILITY LINE BOX
- VEHICLE
- WATER METER BOX
- VALVE COVER
- FIRE HYDRANT
- CONCRETE ABUTMENT



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

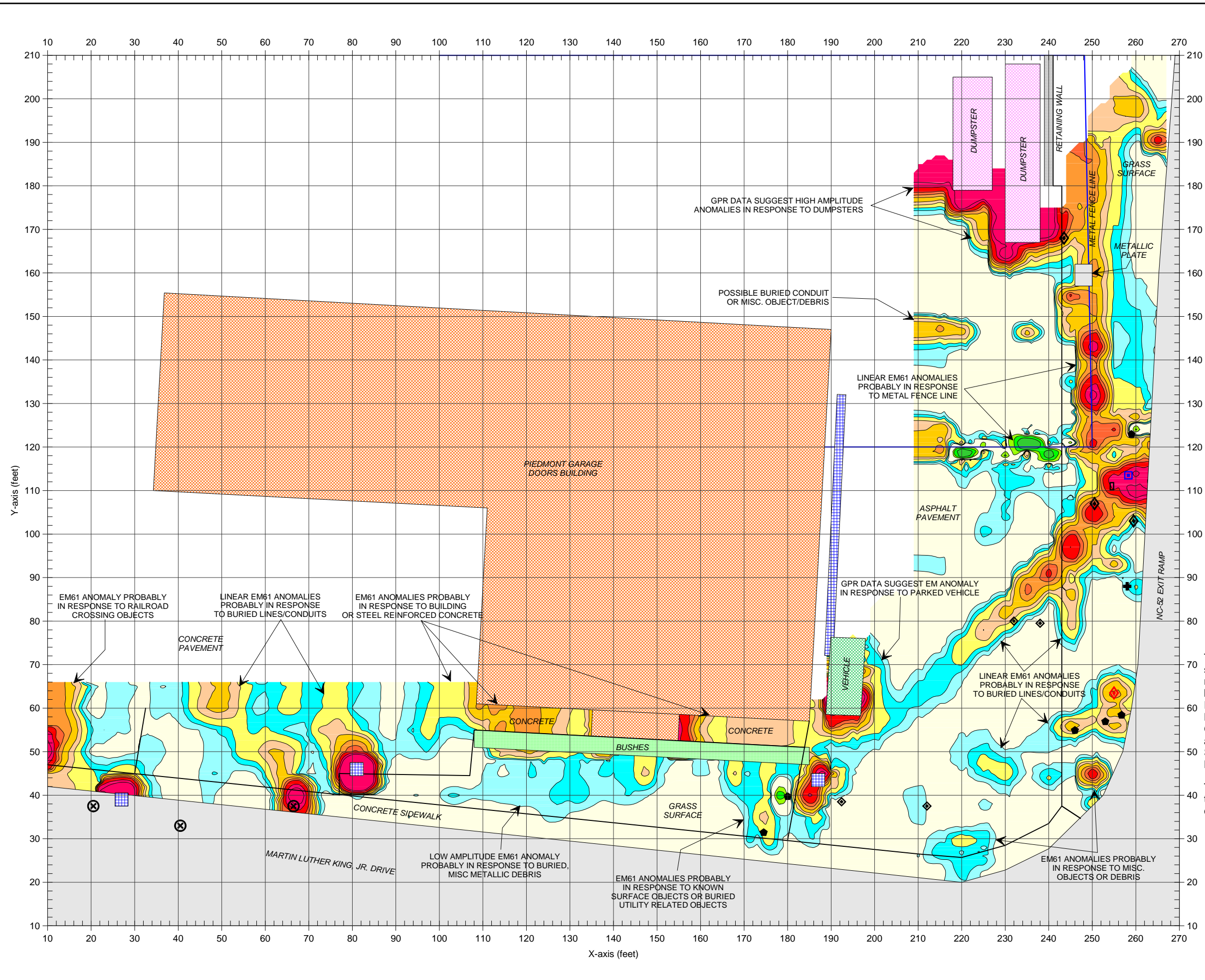
The geophysical investigation suggests that the surveyed portions of Parcels 6 & 7 do not contain metallic USTs.

EM61 METAL DETECTION (DIFFERENTIAL RESULTS)

FIGURE 4

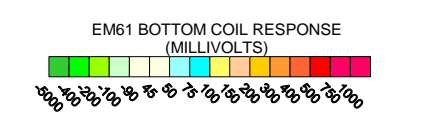
CLIENT	SOLUTIONS-IES	DATE	DRAWN	FIGURE
AMERICAN PAWN & BURGERBUSTERS PROPERTIES (PARCELS 7&6)		03/25/10	MJD	
CITY	STATE	DWG	CHKD	FIGURE
WINSTON-SALEM	NORTH CAROLINA			2010-044
TITLE	GEOPHYSICAL RESULTS			

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- DUMPSTER
- FIRE HYDRANT
- GUY WIRE
- METAL FENCE LINE
- RIGHT-OF-WAY MARKER
- ROAD SIGN
- STORM SEWER GRATE
- STORM SEWER COVER
- UTILITY POLE
- UTILITY LINE BOX
- VEHICLE
- WATER METER BOX
- VALVE COVER



The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on March 9, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 15, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggests that the surveyed portion of Parcel 2 does not contain metallic USTs.

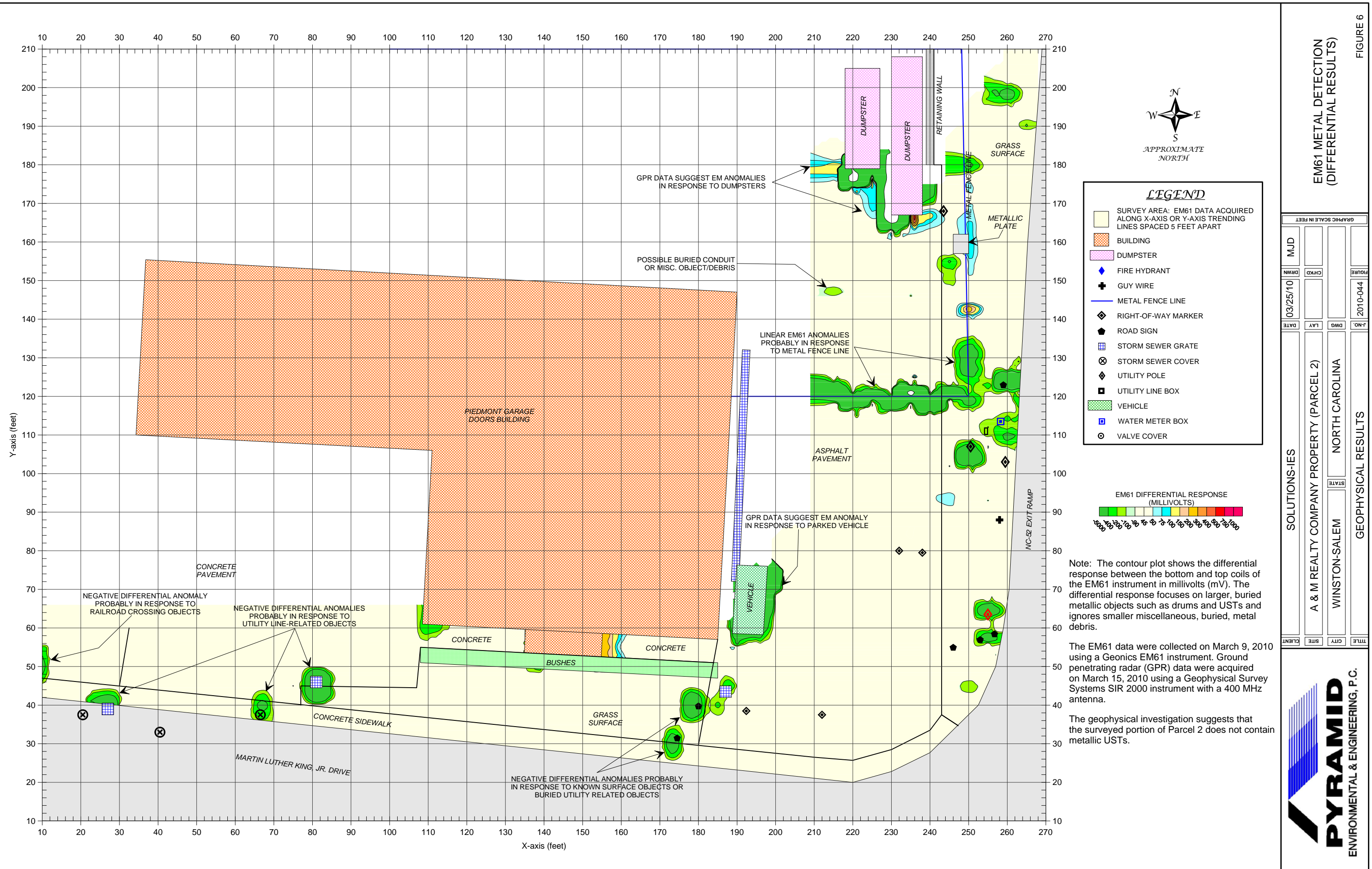


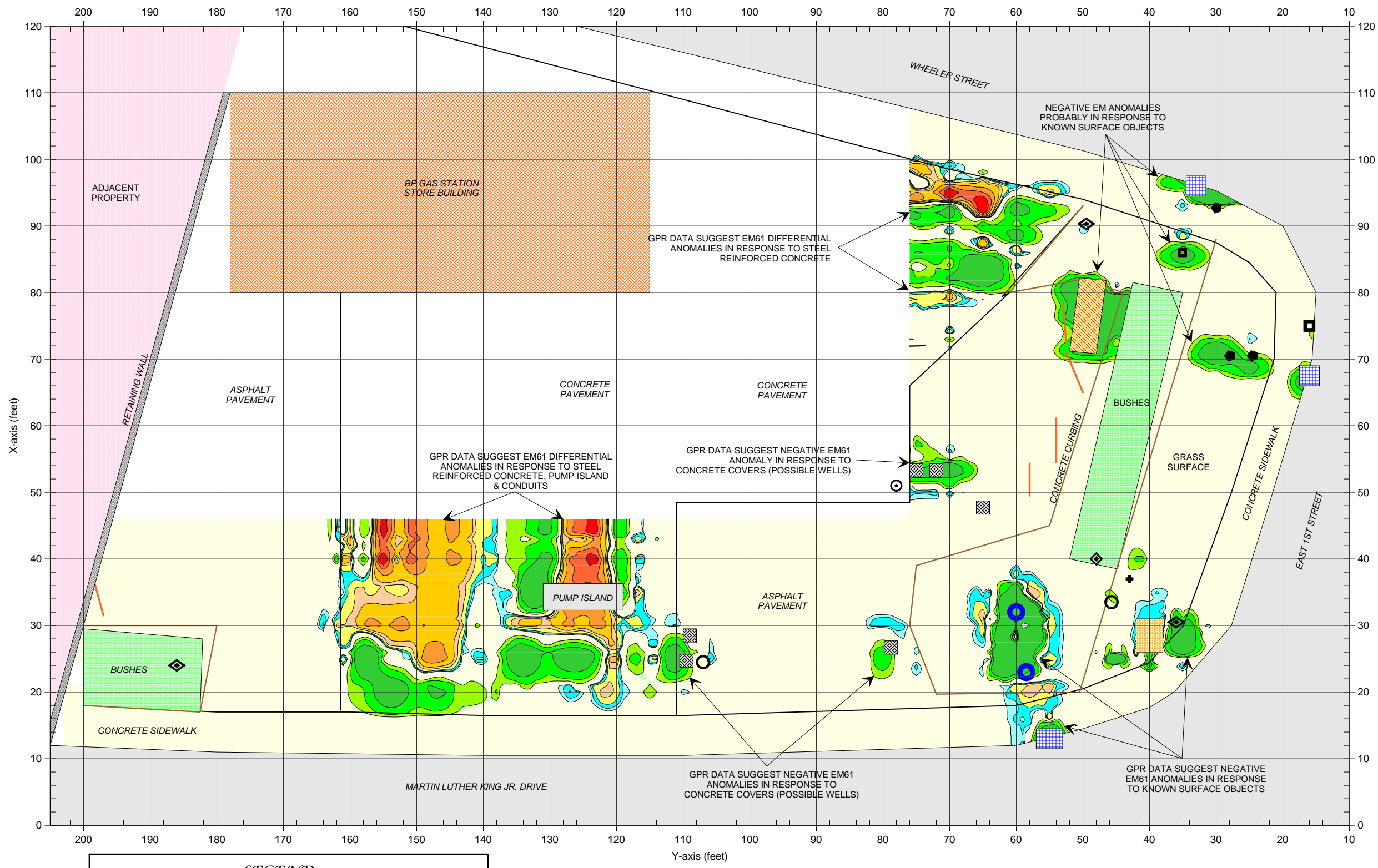
EM61 METAL DETECTION (BOTTOM COIL RESULTS)

FIGURE 5

CLIENT	SOLUTIONS-IES	DATE	DRAWN	MJD	FIGURE
A & M REALTY COMPANY PROPERTY (PARCEL 2)	WINSTON-SALEM	03/25/10			2010-044
STATE	NORTH CAROLINA	LAY	DWG	LNO	
GEOPHYSICAL RESULTS					

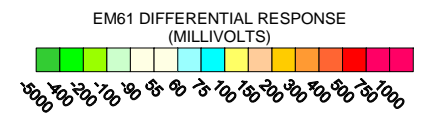
PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.





LEGEND

SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART	GUY WIRE
BUILDING	RIGHT-OF-WAY MARKER
4-INCH DIAMETER PIPES	ROAD SIGN
TELEPHONES & BOLLARDS	STORM SEWER GRATE
BUSINESS SIGN POLE	UTILITY POLE
CONCRETE CURBING	UTILITY LINE BOX
ELECTRICAL BOX OR AIR PUMP	CONCRETE PATCH OR COVER (POSSIBLE ABANDONED WELL)
VALVE COVER	CONCRETE PARKING CURB



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris. The EM61 data were collected on March 10, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on March 15, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

Excluding the active (known) USTs, the geophysical investigation suggests that the surveyed portions of Parcel 29 does not contain unknown metallic USTs.

EM61 METAL DETECTION (DIFFERENTIAL RESULTS)
FIGURE 8

CLIENT	SOLUTIONS-IES	DATE	DRAWN	FIGURE
M. M. FOWLER PROPERTY - PARCEL 29	M. M. FOWLER PROPERTY - PARCEL 29	03/25/10	MJD	FIGURE
CITY	STATE	DWG	CHKD	FIGURE
WINSTON-SALEM	NORTH CAROLINA	2010-044		2010-044
TITLE	GEOPHYSICAL RESULTS			

APPENDIX C
GPS COORDINATES

BORING LOCATION GPS COORDINATES
NCDOT Parcel #2
1151 Martin Luther King Jr. Drive
Winston-Salem, North Carolina
WBS Element: 34871.2.1; State Project: U-2826B

Boring Identification	Latitude	Longitude
P2-1	36.10537481	-80.23832493
P2-2	36.10537061	-80.23805436
P2-3	36.10534815	-80.23790164
P2-4	36.10537288	-80.23780659
P2-5	36.10539543	-80.23764348
P2-6	36.10546818	-80.23756058
P2-7	36.10548704	-80.23767063
P2-8	36.10552794	-80.23755035
P2-9	36.10562442	-80.23766921
P2-10	36.10570044	-80.23755463
P2-11	36.10567513	-80.23766208
P2-12	36.10580253	-80.23756519

APPENDIX D

BORING LOGS

Log of Soil Boring: P2-1

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-1
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: 5'
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
0	OH	Organic Rich, Sandy Silt, Some Gravel		72%	NS	0.0		
1	ML	Brown, Gravely Clayey Silt						
2	SC	Black, Moist, Gravely, Clayey Sand						
3		NR			NS	0.2	P2-1-2-4	
4	SC	Black, Moist, Gravely, Clayey Sand						
5	CL	Brown-Gray, Moist, Sandy Clay, Some Gravel		67%	NS	0.0		
6	CL	Red-Orange, Saturated, Sandy Clay						
7		NR			NS	22.7 No Odor	Not sampled due to saturation	
8	EOB 813 TD 8' BGS							
9	Boring backfilled with soil cuttings and bentonite.							
10	NR - No Recovery							
11								
12								
13								
14								
15								
16								

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 919.873.1060



Log of Soil Boring: P2-2

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-2
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: 4-6'
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	CL	Red-Brown, Silty Clay, Some Gravel	Sample Interval	81%	NS	0.5	P2-2-2-4	
2	GM	Gray, Dry, Sandy Gravel			NS	3.5		
3	CL	Gray-Red, Moist, Silty Clay, Asphalt pieces						
4		NR						
5	CL	Gray-Red, Very Moist, Silty Clay, Some Gravel	Sample Interval	75%	NS	0.7	Not sampled due to cave in at 5 ft bgs	
6					NS	3.4		
7		NR						
8	EOB 840 TD 8' BGS							
9	Boring backfilled with soil cuttings and bentonite.							
10	NR - No Recovery							
11								
12								
13								
14								
15								
16								

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 919.873.1060



Log of Soil Boring: P2-3

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-3
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: 6.5'
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
0	CL	Red, Moist, Sandy Clay, Some Gravel		91%	NS	0.7	P2-3-2-4	
1	SM	Brown, Dry, Silty Sand						
2	CL	Red, Moist, Sandy Clay, Some Gravel, Little Asphalt						
3		NR						
4		NR						
5	CL	Brown-Red, Very Moist, Silty Clay, Some Sand		75%	NS	1.7	Not sampled due to cave in at 6.5 ft bgs	
6								
7		NR						
8		NR						
9		EOB 905 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 919.873.1060



Log of Soil Boring: P2-4

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-4
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: 5.6'
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	CL	Red, Moist, Silty Clay, Some Gravel		100%	NS	1.1	P2-4-2-4	
2	CL	Brown-Red, Silty Sandy Clay, Some Gravel						
3		Brick Pieces, Fill						
	SW	Clean Sand Fill						
4	SM	Brown, Moist, Silty Sand						
5	SM	Brown, Vey Moist, Silty Coarse Sand						
6	SM	Gray, Moist, Mica Rich, Silty Sand		75%	NS	1.2	Not sampled due to cave in at 5.6 ft bgs	
7		NR			NS	0.9		
8		NR						
9		EOB 931 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

Log of Soil Boring: P2-5

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-5
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	SP	Balck-Gray, Moist, Gravelly Sand		65%	NS	0.0	P2-5-0-2	
2	CL	Brown, Very Moist, Sandy Clay, Some Gravel						
3		NR			NS	1.0	Not sampled due to cave in at 2 ft bgs	
4	CL	Brown, Very Moist, Sandy Clay		87%	NS	26.2 No Odor/ Staining		
5	SP	Light Gray, Gravelly Sand, Fill						
6	CL	Light Brown, Moist, Silty Sandy Clay			NS	1.7		
7		NR						
8		NR						
9	EOB 940 TD 8' BGS							
10	Boring backfilled with soil cuttings and bentonite.							
11	NR - No Recovery							
12								
13								
14								
15								
16								

Log of Soil Boring: P2-6

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-6
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
	CL	Brown, Dry, Gravelly Clay						
1		Red, Light Moisture, Clay		100%	NS	0.1		
2	CL				NS	0.3		
3					NS	0.0		
4		Red, Light Moisture, Clay, Some Fill		100%	NS	0.0		
5					NS	0.0		
6	CL				NS	0.0	P2-6-6-8	
7								
8								
9		EOB 1000 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

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Log of Soil Boring: P2-7

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-7
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
	GP	Black, Dry, Sand Gravel, Asphalt		100%	NS	1.9		
1		Red, Semi-moist, Clay, Few Gravel			NS	1.5		
2	CL							
3		Red, Semi-moist, Clay		100%	NS	2.2		
4	CL							
	GP	Black, Dry, Sand Gravel, Asphalt			NS	2.0		
5		Brown-Tan, Moist, Clay, Some Gravel		100%	NS	2.0		
6	CL							
7								
8								
9		EOB 1040 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

Log of Soil Boring: P2-8

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Hand Auger
 Sampler Type: Hand Auger
 Logged By: BE

Boring Number: P2-8
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	CL	Brown, Dry, Sandy Clay		NA	NS	1.8		
2								
3	CL	Red, Moist, Sand Clay		NS	1.3			
4								
5	CL	Red, Moist, Silty Clay		NA	NS	1.4		
6								
7	CL	Red, Moist, Silty Clay		NS	1.2	P2-8-6-8		
8		Refusal						
9	EOB 1100 TD 8' BGS Boring backfilled with soil cuttings and bentonite. NR - No Recovery							
10								
11								
12								
13								
14								
15								
16								

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Log of Soil Boring: P2-9

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-9
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
	GP	Black-Gray, Sandy Gravel, Asphalt						
1		Red, Moist, Silty Clay		100%	NS	0.2		
2	CL							
3		Red, Moist, Silty Clay		100%	NS	0.4		
4	CL							
	SW	Black, Asphalt, Sand						
5		Red-Brown, Mica Rich, Sandy Clay		100%	NS	0.0		
6	CL							P2-9-6-8
7					NS	0.5		
8								
9		EOB 1125 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

Log of Soil Boring: P2-10

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Hand Auger
 Sampler Type: Hand Auger
 Logged By: BE

Boring Number: P2-10
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	CL	Red, Dry, Silty Clay, Fill		NA	NS	0.4		
2								
3	CL	Red, Semi-moist, Silty Clay, Fill			NS	0.1		
4								
5	CL	Brown, Very Moist, Sandy Clay			NS	0.0		
6								
7	CL	Red, Moist, Silty Clay			NS	0.0	P2-10-6-8	
8								
9		EOB 1140 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

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Log of Soil Boring: P2-11

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Geoprobe®
 Sampler Type: Macro-Core®
 Logged By: BE

Boring Number: P2-11
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
	GP	Black, Gravel, Sand, Asphalt						
1		Red-Orange, Dry, Sandy Clay		100%	NS	0.0		
2	CL				NS	0.0		
3								
4		NR						
5		Red-Tan, Silty Clay		92%	NS	0.4		
6	CL				NS	0.3		
7								
8	CL	Red-Tan, Silty Clay, Mica Rich					P2-11-6-8	
9		EOB 1228 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

Log of Soil Boring: P2-12

Project: 3944.10A3.NDOT
 Client: NCDOT
 WBS # 34871.2.1
 State Project # U-2826B
 Drilling Method: Hand Auger
 Sampler Type: Hand Auger
 Logged By: BE

Boring Number: P2-12
 Boring Date: 3/30/2010
 Total Depth of Boring: 8' bgs
 Initial Water Level: N/A
 Stabilized Water Level: N/A
 Cave In Depth: N/A
 County: Forsyth

SUBSURFACE PROFILE			SAMPLE		PID Field Screen ppm	FID Field Screen ppm	Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery				
0		Ground Surface						
1	CL	Brown, Slight Moisture, Sandy Clay		NA	NS	0.0		
2								
3	CL	Redish-Brown, Moist, Silty Clay, Some Sand		NS	0.0			
4								
5	CL	Red, Moist, Silty Clay		NS	0.4			
6				NA				
7	CL	Red, Moist, Mica Rich, Silty Clay			NS	0.4	P2-12-6-8	
8								
9		EOB 1300 TD 8' BGS						
10		Boring backfilled with soil cuttings and bentonite.						
11		NR - No Recovery						
12								
13								
14								
15								
16								

APPENDIX E

LABORATORY ANALYTICAL REPORT



PRISM
LABORATORIES, INC.

Case Narrative

Date: 04/19/10
Company: N. C. Department of Transportation
Contact: Jodi Overmyer
Address: c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Client Project ID: NCDOT Forsyth Co. PSA-Parcel 2
Prism COC Group No: G0410028
Collection Date(s): 03/30/10
Lab Submittal Date(s): 03/31/10

Client Project Name Or No: U-2826-B WBS# 34871.2.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling ~~104~~ ¹⁰⁵ pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

Analysis Note for Q49259 MS Di-n-octylphthalate: MS and MSD recovery outside the control limits.

Analysis note for Semi-Volatile Organics by GCMS: Laboratory report states Method as 8270C; however, samples were analyzed under 8270D method criteria.

Volatile Analysis

No Anomalies Reported

Metals Analysis

Analysis Note for Q49277 Method Blank Barium: MB is greater than the reporting limit, but all samples are greater than 10X the MB.

Analysis Note for Q49277 MS Cadmium: MS recovery outside of the control limits. Matrix interference is suspected.

Analysis Note for Q49277 MS Chromium: MS recovery outside of the control limits. Matrix interference is suspected.

Analysis Note for Q49277 MS Lead: MS and MSD recoveries outside control limits. Sample concentration too high for recovery evaluation.

Analysis Note for Q49277 MSD Cadmium: MSD recovery outside the control limits.

Analysis Note for Q49277 MSD Chromium: MSD recovery outside the control limits.

N/A

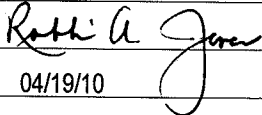
Wet Lab and Micro Analysis

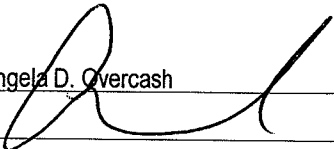
N/A

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones

Project Manager: Angela D. Overcash

Signature: 

Signature: 

Review Date: 04/19/10

Approval Date: 04/19/10

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.

#: Result outside of the QC limits.

DO: Compound diluted out.

E: Estimated concentration, calibration range exceeded.

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

H: Estimated concentration with a high bias.

L: Estimated concentration with a low bias.

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PRISM
LABORATORIES, INC.

Case Narrative

Date: 04/19/10
Company: N. C. Department of Transportation
Contact: Jodi Overmyer
Address: c/o Solution - IES
1101 Nowell Road
Raleigh, NC 27607

Client Project ID: NCDOT Forsyth Co. PSA-Parcel 2
Prism COC Group No: G0410028
Collection Date(s): 03/30/10
Lab Submittal Date(s): 03/31/10

Client Project Name Or No: U-2826-B WBS# 34871.2.1

M: A matrix effect is present.

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275456
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-1-2-4
 Prism Sample ID: 275456
 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.8	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.7	1.6	1	8260B	04/06/10 20:38	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	4.7	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	4.7	0.97	1	8260B	04/06/10 20:38	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	9.4	1.5	1	8260B	04/06/10 20:38	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	4.7	1.9	1	8260B	04/06/10 20:38	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	9.4	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.7	1.7	1	8260B	04/06/10 20:38	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	9.4	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	4.7	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	4.7	1.4	1	8260B	04/06/10 20:38	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	9.4	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	4.7	0.96	1	8260B	04/06/10 20:38	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	9.4	1.4	1	8260B	04/06/10 20:38	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
2-Hexanone	BRL	µg/kg	47	1.4	1	8260B	04/06/10 20:38	erussell	Q49229

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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275456
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-1-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	9.4	1.0	1	8260B	04/06/10 20:38	erussell	Q49229
Acetone	35	µg/kg	19	2.0	1	8260B	04/06/10 20:38	erussell	Q49229
Benzene	BRL	µg/kg	2.8	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Bromobenzene	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
Bromochloromethane	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
Bromoform	BRL	µg/kg	4.7	1.0	1	8260B	04/06/10 20:38	erussell	Q49229
Bromomethane	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Carbon disulfide	BRL	µg/kg	9.4	0.95	1	8260B	04/06/10 20:38	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	4.7	1.4	1	8260B	04/06/10 20:38	erussell	Q49229
Chlorobenzene	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	4.7	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Chloroethane	BRL	µg/kg	9.4	2.4	1	8260B	04/06/10 20:38	erussell	Q49229
Chloroform	BRL	µg/kg	4.7	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Chloromethane	BRL	µg/kg	9.4	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
Dibromomethane	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	9.4	0.96	1	8260B	04/06/10 20:38	erussell	Q49229
Ethylbenzene	BRL	µg/kg	4.7	0.97	1	8260B	04/06/10 20:38	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	14	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	4.7	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	9.4	1.0	1	8260B	04/06/10 20:38	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	9.4	2.5	1	8260B	04/06/10 20:38	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	19	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.7	0.97	1	8260B	04/06/10 20:38	erussell	Q49229

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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275456
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-1-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	14	1.7	1	8260B	04/06/10 20:38	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	9.4	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
Naphthalene	BRL	µg/kg	4.7	2.5	1	8260B	04/06/10 20:38	erussell	Q49229
o-Xylene	BRL	µg/kg	4.7	1.0	1	8260B	04/06/10 20:38	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	14	1.4	1	8260B	04/06/10 20:38	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	14	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Styrene	BRL	µg/kg	4.7	0.91	1	8260B	04/06/10 20:38	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	19	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229
Toluene	BRL	µg/kg	4.7	1.1	1	8260B	04/06/10 20:38	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	4.7	0.93	1	8260B	04/06/10 20:38	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	4.7	0.94	1	8260B	04/06/10 20:38	erussell	Q49229
Trichloroethene	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	4.7	1.3	1	8260B	04/06/10 20:38	erussell	Q49229
Vinyl chloride	BRL	µg/kg	9.4	1.2	1	8260B	04/06/10 20:38	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	106	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	101	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.41	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	6.16	g	1	5035	04/06/10	lbrown
Weight Methanol	5.81	g	1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	380	42	1	8270C	04/07/10 20:37	cphilbrick	Q49259
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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

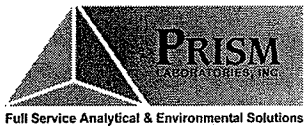
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275456
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-1-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	380	42	1	8270C	04/07/10 20:37	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	380	37	1	8270C	04/07/10 20:37	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	380	45	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	380	45	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	380	41	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	380	25	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	380	57	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	380	110	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	380	50	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	380	69	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	380	48	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	380	16	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	380	43	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	380	31	1	8270C	04/07/10 20:37	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	380	54	1	8270C	04/07/10 20:37	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	380	45	1	8270C	04/07/10 20:37	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	380	69	1	8270C	04/07/10 20:37	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	380	33	1	8270C	04/07/10 20:37	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	380	47	1	8270C	04/07/10 20:37	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	380	45	1	8270C	04/07/10 20:37	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	380	48	1	8270C	04/07/10 20:37	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	380	49	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	380	52	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	380	36	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Anthracene	150 J	µg/kg	380	28	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Benzo(a)anthracene	940	µg/kg	380	43	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Benzo(a)pyrene	1100	µg/kg	380	48	1	8270C	04/07/10 20:37	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275456
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-1-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	1700	µg/kg	380	78	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Benzo(g,h,i)perylene	450	µg/kg	380	49	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Benzo(k)fluoranthene	720	µg/kg	380	100	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	380	64	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	380	47	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	380	38	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	380	29	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	380	47	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Chrysene	990	µg/kg	380	26	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	380	61	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	380	110	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Dibenzo(a,h)anthracene	150 J	µg/kg	380	36	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	380	46	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	380	98	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	380	56	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Fluoranthene	1700	µg/kg	380	67	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Fluorene	BRL	µg/kg	380	54	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	380	52	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	380	38	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	380	57	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	380	16	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	610	µg/kg	380	36	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Isophorone	BRL	µg/kg	380	36	1	8270C	04/07/10 20:37	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	380	22	1	8270C	04/07/10 20:37	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	380	55	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	380	45	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	380	48	1	8270C	04/07/10 20:37	cphilbrick	Q49259

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275456
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-1-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	380	58	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Phenanthrene	890	µg/kg	380	32	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Phenol	BRL	µg/kg	380	67	1	8270C	04/07/10 20:37	cphilbrick	Q49259
Pyrene	1600	µg/kg	380	73	1	8270C	04/07/10 20:37	cphilbrick	Q49259

Sample Preparation: 29.96 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	113	41 - 136
Phenol-d5	84	13 - 95
Nitrobenzene-d5	79	14 - 103
2-Fluorophenol	84	14 - 89
2-Fluorobiphenyl	91	21 - 108
2,4,6-Tribromophenol	95	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) 43 mg/kg 8.1 1.3 1 8015B 04/09/10 8:15 jvogel Q49287

Sample Preparation: 24.97 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	81	49 - 124

Sample Weight Determination

Weight 1 6.31 g 1 GRO 04/06/10 0:00 lbrown

Weight 2 5.51 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 5.8 3.6 50 8015B 04/08/10 3:12 heasler Q49290

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 Parcel 2
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 COC Group: G0410028
 Time Collected: 03/30/10 8:26
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	96	55 - 129

Mercury by CVAA

Mercury	0.22	mg/kg	0.023	0.0016	1	7471A	04/09/10 15:11	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	4.4	mg/kg	0.58	0.065	1	6010B	04/08/10 23:57	pfitzgerald	Q49277
Barium	160	mg/kg	2.9	0.43	5	6010B	04/13/10 23:58	dsullivan	Q49277
Cadmium	2.8	mg/kg	0.29	0.031	1	6010B	04/08/10 23:57	pfitzgerald	Q49277
Chromium	.31	mg/kg	0.29	0.040	1	6010B	04/08/10 23:57	pfitzgerald	Q49277
Lead	530	mg/kg	1.4	0.36	5	6010B	04/13/10 23:58	dsullivan	Q49277
Selenium	1.2 J	mg/kg	2.9	0.58	5	6010B	04/13/10 23:58	dsullivan	Q49277
Silver	BRL	mg/kg	0.29	0.029	1	6010B	04/08/10 23:57	pfitzgerald	Q49277
Sample Preparation:				2.03 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-2-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	69.5	%			1	SM2540 G	04/05/10 13:30	jbrayton	
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.2	1.7	1	8260B	04/06/10 17:51	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.2	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	5.2	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	5.2	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	5.2	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	10	1.7	1	8260B	04/06/10 17:51	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	5.2	2.2	1	8260B	04/06/10 17:51	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	10	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	10	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.2	1.9	1	8260B	04/06/10 17:51	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.2	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	10	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	5.2	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	5.2	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	10	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	10	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	5.2	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	10	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	10	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	10	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
2-Hexanone	BRL	µg/kg	52	1.6	1	8260B	04/06/10 17:51	erussell	Q49229

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-2-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	10	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	10	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
Acetone	33	µg/kg	21	2.3	1	8260B	04/06/10 17:51	erussell	Q49229
Benzene	BRL	µg/kg	3.1	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
Bromobenzene	BRL	µg/kg	5.2	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Bromochloromethane	BRL	µg/kg	5.2	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
Bromoform	BRL	µg/kg	5.2	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
Bromomethane	BRL	µg/kg	10	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Carbon disulfide	BRL	µg/kg	10	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	5.2	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
Chlorobenzene	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	5.2	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Chloroethane	BRL	µg/kg	10	2.7	1	8260B	04/06/10 17:51	erussell	Q49229
Chloroform	BRL	µg/kg	5.2	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Chloromethane	BRL	µg/kg	10	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
cis-1,2-Dichloroethene	18	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
Dibromomethane	BRL	µg/kg	5.2	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	10	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
Ethylbenzene	BRL	µg/kg	5.2	1.1	1	8260B	04/06/10 17:51	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	16	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	5.2	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	10	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	10	2.8	1	8260B	04/06/10 17:51	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	21	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.2	1.1	1	8260B	04/06/10 17:51	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-2-2-4
 Prism Sample ID: 275457
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	10	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	16	1.9	1	8260B	04/06/10 17:51	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	10	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
Naphthalene	BRL	µg/kg	5.2	2.8	1	8260B	04/06/10 17:51	erussell	Q49229
o-Xylene	BRL	µg/kg	5.2	1.2	1	8260B	04/06/10 17:51	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	16	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	16	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
Styrene	BRL	µg/kg	5.2	1.0	1	8260B	04/06/10 17:51	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	21	1.4	1	8260B	04/06/10 17:51	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	10	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
Toluene	BRL	µg/kg	5.2	1.3	1	8260B	04/06/10 17:51	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	5.2	1.0	1	8260B	04/06/10 17:51	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	5.2	1.0	1	8260B	04/06/10 17:51	erussell	Q49229
Trichloroethene	38	µg/kg	5.2	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	5.2	1.5	1	8260B	04/06/10 17:51	erussell	Q49229
Vinyl chloride	BRL	µg/kg	10	1.4	1	8260B	04/06/10 17:51	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	106	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	102	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.92	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	6.35	g	1	5035	04/06/10	lbrown
Weight Methanol	6.36	g	1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

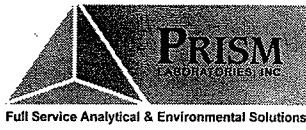
1,2,4-Trichlorobenzene	BRL	µg/kg	470	52	1	8270C	04/08/10 16:52	cphilbrick	Q49259
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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

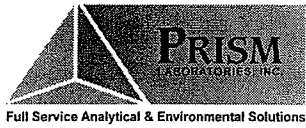
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-2-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	470	52	1	8270C	04/08/10 16:52	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	470	46	1	8270C	04/08/10 16:52	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	470	56	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	470	56	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	470	51	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	470	31	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	470	70	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	470	140	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	470	62	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	470	85	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	470	59	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	470	20	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	470	53	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	470	38	1	8270C	04/08/10 16:52	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	470	66	1	8270C	04/08/10 16:52	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	470	55	1	8270C	04/08/10 16:52	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	470	85	1	8270C	04/08/10 16:52	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	470	40	1	8270C	04/08/10 16:52	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	470	59	1	8270C	04/08/10 16:52	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	470	56	1	8270C	04/08/10 16:52	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	470	59	1	8270C	04/08/10 16:52	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	470	60	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	470	64	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	470	44	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Anthracene	BRL	µg/kg	470	34	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	470	53	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	470	59	1	8270C	04/08/10 16:52	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-2-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	470	96	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	470	60	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	470	130	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	470	79	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	470	58	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	470	47	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	470	36	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	470	58	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Chrysene	BRL	µg/kg	470	32	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	470	75	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	470	140	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	470	44	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	470	57	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	470	120	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	470	70	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	470	83	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Fluorene	BRL	µg/kg	470	67	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	470	65	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	470	47	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	470	70	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	470	19	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	470	45	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Isophorone	BRL	µg/kg	470	45	1	8270C	04/08/10 16:52	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	470	27	1	8270C	04/08/10 16:52	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	470	68	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	470	56	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	470	59	1	8270C	04/08/10 16:52	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-2-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	470	72	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	470	40	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Phenol	BRL	µg/kg	470	83	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Pyrene	BRL	µg/kg	470	90	1	8270C	04/08/10 16:52	cphilbrick	Q49259
Sample Preparation:			30.28 g /	1 mL	3550B	04/06/10 13:30	aguptill	P27199	

Surrogate	% Recovery	Control Limits
Terphenyl-d14	100	41 - 136
Phenol-d5	56	13 - 95
Nitrobenzene-d5	56	14 - 103
2-Fluorophenol	57	14 - 89
2-Fluorobiphenyl	64	21 - 108
2,4,6-Tribromophenol	61	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	39	mg/kg	10	1.6	1	8015B	04/09/10 2:57	lvogel	Q49287
Sample Preparation:			25.18 g /	1 mL	3545	04/07/10 17:00	athao	P27216	

Surrogate	% Recovery	Control Limits
o-Terphenyl	88	49 - 124

Sample Weight Determination

Weight 1	6.37	g			1	GRO	04/06/10 0:00	lbrown	
Weight 2	6.09	g			1	GRO	04/06/10 0:00	lbrown	

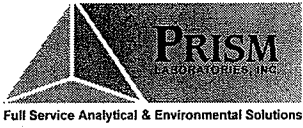
Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.2	4.5	50	8015B	04/08/10 3:43	heasler	Q49290
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275457
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-2-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 8:46
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate recovery was outside the control limits. No target compounds were detected in this sample that were associated with this surrogate. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	230 #	55 - 129

Mercury by CVAA

Mercury	1.1	mg/kg	0.029	0.0020	1	7471A	04/09/10 15:15	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	12	mg/kg	0.72	0.081	1	6010B	04/09/10 0:19	pfitzgerald	Q49277
Barium	130	mg/kg	3.6	0.53	5	6010B	04/14/10 0:20	dsullivan	Q49277
Cadmium	2.9	mg/kg	0.36	0.038	1	6010B	04/09/10 0:19	pfitzgerald	Q49277
Chromium	31	mg/kg	0.36	0.049	1	6010B	04/09/10 0:19	pfitzgerald	Q49277
Lead	260	mg/kg	1.8	0.44	5	6010B	04/14/10 0:20	dsullivan	Q49277
Selenium	BRL	mg/kg	3.6	0.73	5	6010B	04/14/10 0:20	dsullivan	Q49277
Silver	BRL	mg/kg	0.36	0.037	1	6010B	04/09/10 0:19	pfitzgerald	Q49277
Sample Preparation:				2.03 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

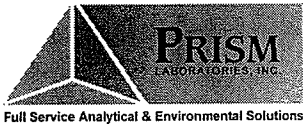
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275458
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-3-2-4
 Prism Sample ID: 275458
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	74.8	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	6.8	2.2	1	8260B	04/06/10 17:18	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	6.8	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	6.8	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	6.8	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	6.8	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	6.8	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	6.8	1.4	1	8260B	04/06/10 17:18	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	14	2.2	1	8260B	04/06/10 17:18	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	6.8	2.8	1	8260B	04/06/10 17:18	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	14	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	14	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	6.8	2.4	1	8260B	04/06/10 17:18	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	6.8	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	14	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	6.8	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	6.8	2.0	1	8260B	04/06/10 17:18	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	14	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	14	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	6.8	1.4	1	8260B	04/06/10 17:18	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	14	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	6.8	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	14	2.0	1	8260B	04/06/10 17:18	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	14	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
2-Hexanone	BRL	µg/kg	68	2.0	1	8260B	04/06/10 17:18	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

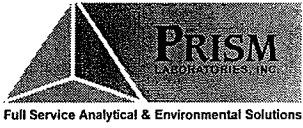
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275458
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-3-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	14	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	14	1.5	1	8260B	04/06/10 17:18	erussell	Q49229
Acetone	70	µg/kg	27	2.9	1	8260B	04/06/10 17:18	erussell	Q49229
Benzene	BRL	µg/kg	4.1	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
Bromobenzene	BRL	µg/kg	6.8	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Bromochloromethane	BRL	µg/kg	6.8	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	6.8	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
Bromoform	BRL	µg/kg	6.8	1.5	1	8260B	04/06/10 17:18	erussell	Q49229
Bromomethane	BRL	µg/kg	14	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Carbon disulfide	BRL	µg/kg	14	1.4	1	8260B	04/06/10 17:18	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	6.8	2.0	1	8260B	04/06/10 17:18	erussell	Q49229
Chlorobenzene	BRL	µg/kg	6.8	1.5	1	8260B	04/06/10 17:18	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	6.8	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Chloroethane	BRL	µg/kg	14	3.5	1	8260B	04/06/10 17:18	erussell	Q49229
Chloroform	BRL	µg/kg	6.8	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Chloromethane	BRL	µg/kg	14	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	6.8	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	6.8	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
Dibromomethane	BRL	µg/kg	6.8	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	14	1.4	1	8260B	04/06/10 17:18	erussell	Q49229
Ethylbenzene	BRL	µg/kg	6.8	1.4	1	8260B	04/06/10 17:18	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	20	1.6	1	8260B	04/06/10 17:18	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	6.8	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	14	1.5	1	8260B	04/06/10 17:18	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	14	3.6	1	8260B	04/06/10 17:18	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	27	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	6.8	1.4	1	8260B	04/06/10 17:18	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275458
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-3-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	14	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	20	2.5	1	8260B	04/06/10 17:18	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	14	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
Naphthalene	BRL	µg/kg	6.8	3.7	1	8260B	04/06/10 17:18	erussell	Q49229
o-Xylene	BRL	µg/kg	6.8	1.5	1	8260B	04/06/10 17:18	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	20	2.0	1	8260B	04/06/10 17:18	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	20	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
Styrene	BRL	µg/kg	6.8	1.3	1	8260B	04/06/10 17:18	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	27	1.8	1	8260B	04/06/10 17:18	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	14	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
Toluene	BRL	µg/kg	6.8	1.7	1	8260B	04/06/10 17:18	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	6.8	1.3	1	8260B	04/06/10 17:18	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	6.8	1.4	1	8260B	04/06/10 17:18	erussell	Q49229
Trichloroethene	BRL	µg/kg	6.8	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	6.8	1.9	1	8260B	04/06/10 17:18	erussell	Q49229
Vinyl chloride	BRL	µg/kg	14	1.8	1	8260B	04/06/10 17:18	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	106	67 - 143
Bromofluorobenzene	100	77 - 128

Sample Weight Determination

Weight Bisulfate 1	4.94	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	5.61	g	1	5035	04/06/10	lbrown
Weight Methanol	5.50	g	1	5035	04/06/10	lbrown

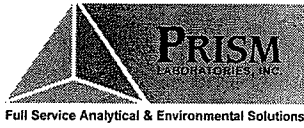
Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	440	48	1	8270C	04/08/10 17:22	cphilbrick	Q49259
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275458
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-3-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

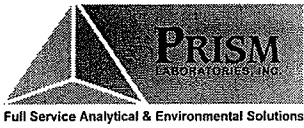
Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	440	48	1	8270C	04/08/10 17:22	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	440	42	1	8270C	04/08/10 17:22	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	440	52	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	440	52	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	440	47	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	440	29	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	440	65	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	440	130	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	440	57	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	440	79	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	440	55	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	440	18	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	440	49	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	440	35	1	8270C	04/08/10 17:22	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	440	61	1	8270C	04/08/10 17:22	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	440	51	1	8270C	04/08/10 17:22	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	440	79	1	8270C	04/08/10 17:22	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	440	37	1	8270C	04/08/10 17:22	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	440	54	1	8270C	04/08/10 17:22	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	440	52	1	8270C	04/08/10 17:22	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	440	55	1	8270C	04/08/10 17:22	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	440	56	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	440	59	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	440	41	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Anthracene	BRL	µg/kg	440	32	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Benzo(a)anthracene	300 J	µg/kg	440	49	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Benzo(a)pyrene	300 J	µg/kg	440	55	1	8270C	04/08/10 17:22	cphilbrick	Q49259

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NC Certification No. 402
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275458
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-3-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	400 J	µg/kg	440	89	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Benzo(g,h,i)perylene	120 J	µg/kg	440	56	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Benzo(k)fluoranthene	180 J	µg/kg	440	120	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	440	74	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	440	54	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	440	44	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	440	34	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	440	54	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Chrysene	300 J	µg/kg	440	29	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	440	70	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	440	130	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	440	41	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	440	53	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	440	110	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	440	65	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Fluoranthene	580	µg/kg	440	77	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Fluorene	BRL	µg/kg	440	62	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	440	60	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	440	43	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	440	65	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	440	18	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	170 J	µg/kg	440	41	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Isophorone	BRL	µg/kg	440	42	1	8270C	04/08/10 17:22	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	440	25	1	8270C	04/08/10 17:22	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	440	63	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	440	52	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	440	55	1	8270C	04/08/10 17:22	cphilbrick	Q49259

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275458
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-3-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	440	67	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Phenanthrene	380 J	µg/kg	440	37	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Phenol	BRL	µg/kg	440	77	1	8270C	04/08/10 17:22	cphilbrick	Q49259
Pyrene	540	µg/kg	440	83	1	8270C	04/08/10 17:22	cphilbrick	Q49259

Sample Preparation: 30.28 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	102	41 - 136
Phenol-d5	67	13 - 95
Nitrobenzene-d5	63	14 - 103
2-Fluorophenol	63	14 - 89
2-Fluorobiphenyl	72	21 - 108
2,4,6-Tribromophenol	90	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) 18 mg/kg 9.3 1.5 1 8015B 04/09/10 2:22 jvogel Q49287

Sample Preparation: 25.05 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	82	49 - 124

Sample Weight Determination

Weight 1 5.76 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 5.41 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 6.7 4.2 50 8015B 04/08/10 4:15 heaster Q49290

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-3-2-4
 Prism Sample ID: 275458
 COC Group: G0410028
 Time Collected: 03/30/10 9:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	105	55 - 129

Mercury by CVAA

Mercury	0.41	mg/kg	0.027	0.0018	1	7471A	04/09/10 15:20	kpowers	Q49336	
Sample Preparation:				0.6 g	/	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	5.1	mg/kg	0.67	0.076	1	6010B	04/09/10 0:26	pfitzgerald	Q49277	
Barium	140	mg/kg	3.3	0.50	5	6010B	04/14/10 0:28	dsullivan	Q49277	
Cadmium	1.8	mg/kg	0.33	0.035	1	6010B	04/09/10 0:26	pfitzgerald	Q49277	
Chromium	55	mg/kg	0.33	0.046	1	6010B	04/09/10 0:26	pfitzgerald	Q49277	
Lead	87	mg/kg	1.7	0.41	5	6010B	04/14/10 0:28	dsullivan	Q49277	
Selenium	BRL	mg/kg	3.3	0.68	5	6010B	04/14/10 0:28	dsullivan	Q49277	
Silver	BRL	mg/kg	0.33	0.034	1	6010B	04/09/10 0:26	pfitzgerald	Q49277	
Sample Preparation:				2.04 g	/	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275459
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

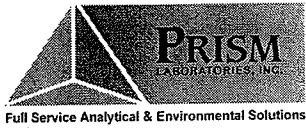
Client Sample ID: P2-4-2-4
 Prism Sample ID: 275459
 COC Group: G0410028
 Time Collected: 03/30/10 9:49
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	82.8	%			1	SM2540 G	04/05/10 13:30	jbrayton	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.4	1.8	1	8260B	04/06/10 16:44	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	5.4	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
1,1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	5.4	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	5.4	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	11	1.8	1	8260B	04/06/10 16:44	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	5.4	2.2	1	8260B	04/06/10 16:44	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	11	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	11	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.4	2.0	1	8260B	04/06/10 16:44	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	11	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	5.4	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	5.4	1.6	1	8260B	04/06/10 16:44	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	11	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	5.4	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	11	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	11	1.6	1	8260B	04/06/10 16:44	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
2-Hexanone	BRL	µg/kg	54	1.6	1	8260B	04/06/10 16:44	erussell	Q49229

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

Laboratory Report

04/19/10

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 c/o Solution - IES
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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275459
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-4-2-4
 Prism Sample ID: 275459
 COC Group: G0410028
 Time Collected: 03/30/10 9:49
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
Acetone	30	µg/kg	22	2.3	1	8260B	04/06/10 16:44	erussell	Q49229
Benzene	BRL	µg/kg	3.2	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Bromobenzene	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
Bromochloromethane	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	5.4	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
Bromoform	BRL	µg/kg	5.4	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
Bromomethane	BRL	µg/kg	11	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Carbon disulfide	BRL	µg/kg	11	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	5.4	1.6	1	8260B	04/06/10 16:44	erussell	Q49229
Chlorobenzene	BRL	µg/kg	5.4	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	5.4	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Chloroethane	BRL	µg/kg	11	2.8	1	8260B	04/06/10 16:44	erussell	Q49229
Chloroform	BRL	µg/kg	5.4	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Chloromethane	BRL	µg/kg	11	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
Dibromomethane	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	11	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
Ethylbenzene	BRL	µg/kg	5.4	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	16	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	11	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	11	2.9	1	8260B	04/06/10 16:44	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	22	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.4	1.1	1	8260B	04/06/10 16:44	erussell	Q49229

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 Sample Matrix: Soil
 Client Sample ID: P2-4-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:49
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	11	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	16	2.0	1	8260B	04/06/10 16:44	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	11	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
Naphthalene	BRL	µg/kg	5.4	2.9	1	8260B	04/06/10 16:44	erussell	Q49229
o-Xylene	BRL	µg/kg	5.4	1.2	1	8260B	04/06/10 16:44	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	16	1.6	1	8260B	04/06/10 16:44	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	16	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Styrene	BRL	µg/kg	5.4	1.0	1	8260B	04/06/10 16:44	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	22	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 16:44	erussell	Q49229
Toluene	BRL	µg/kg	5.4	1.3	1	8260B	04/06/10 16:44	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	5.4	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	5.4	1.1	1	8260B	04/06/10 16:44	erussell	Q49229
Trichloroethene	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	5.4	1.5	1	8260B	04/06/10 16:44	erussell	Q49229
Vinyl chloride	BRL	µg/kg	11	1.4	1	8260B	04/06/10 16:44	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	106	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	104	77 - 128

Sample Weight Determination

Weight Bisulfate 1	5.59	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	5.82	g	1	5035	04/06/10	lbrown
Weight Methanol	6.30	g	1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	390	44	1	8270C	04/08/10 17:52	cphilbrick	Q49259
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Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	390	44	1	8270C	04/08/10 17:52	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	390	38	1	8270C	04/08/10 17:52	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	390	47	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	390	47	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	390	42	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	390	26	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	390	59	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	390	110	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	390	52	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	390	71	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	390	50	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	390	17	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2-Methylnaphthalene	110 J	µg/kg	390	44	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	390	32	1	8270C	04/08/10 17:52	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	390	56	1	8270C	04/08/10 17:52	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	390	46	1	8270C	04/08/10 17:52	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	390	72	1	8270C	04/08/10 17:52	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	390	34	1	8270C	04/08/10 17:52	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	390	49	1	8270C	04/08/10 17:52	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	390	47	1	8270C	04/08/10 17:52	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	390	50	1	8270C	04/08/10 17:52	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	390	50	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	390	54	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	390	37	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Anthracene	160 J	µg/kg	390	29	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Benzo(a)anthracene	640	µg/kg	390	45	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Benzo(a)pyrene	670	µg/kg	390	50	1	8270C	04/08/10 17:52	cphilbrick	Q49259

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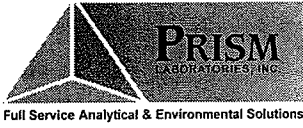
Client Sample ID: P2-4-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:49
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Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	1000	µg/kg	390	81	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Benzo(g,h,i)perylene	350 J	µg/kg	390	50	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Benzo(k)fluoranthene	390 J	µg/kg	390	110	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	390	67	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	390	49	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	390	40	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	110 J	µg/kg	390	31	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	390	49	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Chrysene	590	µg/kg	390	27	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	390	63	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	390	110	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	390	37	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	390	48	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	390	100	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	390	59	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Fluoranthene	1400	µg/kg	390	70	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Fluorene	BRL	µg/kg	390	56	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	390	54	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	390	39	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	390	59	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	390	16	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	460	µg/kg	390	37	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Isophorone	BRL	µg/kg	390	38	1	8270C	04/08/10 17:52	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	390	23	1	8270C	04/08/10 17:52	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	390	57	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Naphthalene	110 J	µg/kg	390	47	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	390	50	1	8270C	04/08/10 17:52	cphilbrick	Q49259

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Pentachlorophenol	BRL	µg/kg	390	60	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Phenanthrene	1000	µg/kg	390	34	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Phenol	BRL	µg/kg	390	70	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Pyrene	1300	µg/kg	390	75	1	8270C	04/08/10 17:52	cphilbrick	Q49259
Sample Preparation:			30.27 g	/	1 mL	3550B	04/06/10 13:30	aguptill	P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	103	41 - 136
Phenol-d5	63	13 - 95
Nitrobenzene-d5	74	14 - 103
2-Fluorophenol	58	14 - 89
2-Fluorobiphenyl	80	21 - 108
2,4,6-Tribromophenol	81	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.4	1.4	1	8015B	04/09/10 1:46	jvogel	Q49287
Sample Preparation:			25.03 g	/	1 mL	3545	04/07/10 17:00	athao	P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	74	49 - 124

Sample Weight Determination

Weight 1	6.23	g			1	GRO	04/06/10 0:00	lbrown
Weight 2	5.87	g			1	GRO	04/06/10 0:00	lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.8	50	8015B	04/08/10 4:46	heasler	Q49290
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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275459
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-4-2-4
 COC Group: G0410028
 Time Collected: 03/30/10 9:49
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	63	55 - 129

Mercury by CVAA

Mercury	0.10	mg/kg	0.024	0.0016	1	7471A	04/09/10 15:24	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	3.4	mg/kg	0.60	0.068	1	6010B	04/09/10 0:34	pfitzgerald	Q49277
Barium	140	mg/kg	3.0	0.45	5	6010B	04/14/10 0:49	dsullivan	Q49277
Cadmium	1.2	mg/kg	0.30	0.032	1	6010B	04/09/10 0:34	pfitzgerald	Q49277
Chromium	15	mg/kg	0.30	0.042	1	6010B	04/09/10 0:34	pfitzgerald	Q49277
Lead	410	mg/kg	1.5	0.37	5	6010B	04/14/10 0:49	dsullivan	Q49277
Selenium	4.3	mg/kg	3.0	0.61	5	6010B	04/14/10 0:49	dsullivan	Q49277
Silver	BRL	mg/kg	0.30	0.031	1	6010B	04/09/10 0:34	pfitzgerald	Q49277
Sample Preparation:				2.01 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	93.6	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.5	1.5	1	8260B	04/06/10 15:04	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	4.5	1.0	1	8260B	04/06/10 15:04	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	4.5	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	4.5	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	4.5	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	4.5	0.93	1	8260B	04/06/10 15:04	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	9.0	1.5	1	8260B	04/06/10 15:04	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	4.5	1.9	1	8260B	04/06/10 15:04	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	9.0	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.5	1.6	1	8260B	04/06/10 15:04	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.5	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	9.0	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	4.5	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	4.5	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	9.0	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	4.5	0.92	1	8260B	04/06/10 15:04	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	9.0	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
2-Hexanone	BRL	µg/kg	45	1.4	1	8260B	04/06/10 15:04	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

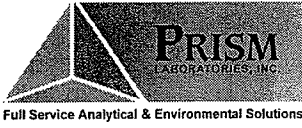
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	9.0	0.98	1	8260B	04/06/10 15:04	erussell	Q49229
Acetone	17 J	µg/kg	18	1.9	1	8260B	04/06/10 15:04	erussell	Q49229
Benzene	BRL	µg/kg	2.7	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
Bromobenzene	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Bromochloromethane	BRL	µg/kg	4.5	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	4.5	1.0	1	8260B	04/06/10 15:04	erussell	Q49229
Bromoform	BRL	µg/kg	4.5	0.98	1	8260B	04/06/10 15:04	erussell	Q49229
Bromomethane	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Carbon disulfide	BRL	µg/kg	9.0	0.92	1	8260B	04/06/10 15:04	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	4.5	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
Chlorobenzene	BRL	µg/kg	4.5	1.0	1	8260B	04/06/10 15:04	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Chloroethane	BRL	µg/kg	9.0	2.3	1	8260B	04/06/10 15:04	erussell	Q49229
Chloroform	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Chloromethane	BRL	µg/kg	9.0	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Dibromomethane	BRL	µg/kg	4.5	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	9.0	0.92	1	8260B	04/06/10 15:04	erussell	Q49229
Ethylbenzene	BRL	µg/kg	4.5	0.93	1	8260B	04/06/10 15:04	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	13	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	9.0	1.0	1	8260B	04/06/10 15:04	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	9.0	2.4	1	8260B	04/06/10 15:04	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	18	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.5	0.93	1	8260B	04/06/10 15:04	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	9.0	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 15:04	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	9.0	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
Naphthalene	BRL	µg/kg	4.5	2.4	1	8260B	04/06/10 15:04	erussell	Q49229
o-Xylene	BRL	µg/kg	4.5	0.99	1	8260B	04/06/10 15:04	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	13	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	13	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
Styrene	BRL	µg/kg	4.5	0.87	1	8260B	04/06/10 15:04	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	18	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	9.0	1.2	1	8260B	04/06/10 15:04	erussell	Q49229
Toluene	BRL	µg/kg	4.5	1.1	1	8260B	04/06/10 15:04	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	4.5	0.89	1	8260B	04/06/10 15:04	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	4.5	0.90	1	8260B	04/06/10 15:04	erussell	Q49229
Trichloroethene	BRL	µg/kg	4.5	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	4.5	1.3	1	8260B	04/06/10 15:04	erussell	Q49229
Vinyl chloride	BRL	µg/kg	9.0	1.2	1	8260B	04/06/10 15:04	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	106	81 - 128
Dibromofluoromethane	106	67 - 143
Bromofluorobenzene	101	77 - 128

Sample Weight Determination

Weight Bisulfate 1	5.95	g		1	5035	04/06/10	lbrown
Weight Bisulfate 2	6.31	g		1	5035	04/06/10	lbrown
Weight Methanol	6.34	g		1	5035	04/06/10	lbrown

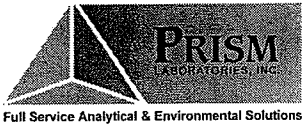
Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	350	39	1	8270C	04/08/10 18:22	cphilbrick	Q49259
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	350	39	1	8270C	04/08/10 18:22	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	350	34	1	8270C	04/08/10 18:22	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	350	42	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	350	42	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	350	38	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	350	23	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	350	53	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	350	100	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	350	46	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	350	64	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	350	44	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	350	15	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	350	40	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	350	29	1	8270C	04/08/10 18:22	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	350	50	1	8270C	04/08/10 18:22	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	350	41	1	8270C	04/08/10 18:22	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	350	64	1	8270C	04/08/10 18:22	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	350	30	1	8270C	04/08/10 18:22	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	350	44	1	8270C	04/08/10 18:22	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	350	42	1	8270C	04/08/10 18:22	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	350	45	1	8270C	04/08/10 18:22	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	350	45	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	350	48	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	350	33	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Anthracene	BRL	µg/kg	350	26	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Benzo(a)anthracene	300 J	µg/kg	350	40	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Benzo(a)pyrene	300 J	µg/kg	350	45	1	8270C	04/08/10 18:22	cphilbrick	Q49259

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

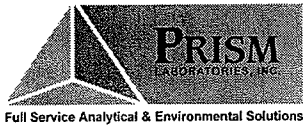
Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	460	µg/kg	350	72	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Benzo(g,h,i)perylene	160 J	µg/kg	350	45	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Benzo(k)fluoranthene	170 J	µg/kg	350	95	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	350	60	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	350	44	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	350	35	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	350	27	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	350	44	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Chrysene	280 J	µg/kg	350	24	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	350	57	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	350	100	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	350	33	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	350	43	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	350	91	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	350	52	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Fluoranthene	580	µg/kg	350	62	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Fluorene	BRL	µg/kg	350	50	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	350	49	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	350	35	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	350	53	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	350	15	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	220 J	µg/kg	350	34	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Isophorone	BRL	µg/kg	350	34	1	8270C	04/08/10 18:22	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	350	21	1	8270C	04/08/10 18:22	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	350	51	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	350	42	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	350	44	1	8270C	04/08/10 18:22	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	350	54	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Phenanthrene	380	µg/kg	350	30	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Phenol	BRL	µg/kg	350	62	1	8270C	04/08/10 18:22	cphilbrick	Q49259
Pyrene	530	µg/kg	350	68	1	8270C	04/08/10 18:22	cphilbrick	Q49259

Sample Preparation: 29.9 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	112	41 - 136
Phenol-d5	69	13 - 95
Nitrobenzene-d5	71	14 - 103
2-Fluorophenol	64	14 - 89
2-Fluorobiphenyl	83	21 - 108
2,4,6-Tribromophenol	91	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) 38 mg/kg 7.4 1.2 1 8015B 04/09/10 4:45 jvogel Q49287

Sample Preparation: 25.13 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	79	49 - 124

Sample Weight Determination

Weight 1 6.13 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 6.69 g 1 GRO 04/06/10 0:00 lbrown

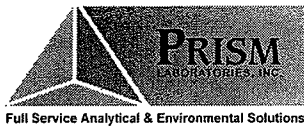
Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 5.3 3.3 50 8015B 04/08/10 5:17 heasler Q49290

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Laboratory Report

04/19/10

N. C. Department of Transportation
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 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275460
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-5-0-2
 COC Group: G0410028
 Time Collected: 03/30/10 10:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	114	55 - 129

Mercury by CVAA

Mercury	0.43	mg/kg	0.021	0.0015	1	7471A	04/09/10 15:29	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	9.1	mg/kg	0.53	0.060	1	6010B	04/09/10 0:41	pfitzgerald	Q49277
Barium	140	mg/kg	2.7	0.40	5	6010B	04/14/10 0:58	dsullivan	Q49277
Cadmium	2.4	mg/kg	0.27	0.028	1	6010B	04/09/10 0:41	pfitzgerald	Q49277
Chromium	29	mg/kg	0.27	0.037	1	6010B	04/09/10 0:41	pfitzgerald	Q49277
Lead	770	mg/kg	2.7	0.66	10	6010B	04/14/10 23:22	dsullivan	Q49277
Selenium	BRL	mg/kg	2.7	0.54	5	6010B	04/14/10 0:58	dsullivan	Q49277
Silver	BRL	mg/kg	0.27	0.027	1	6010B	04/09/10 0:41	pfitzgerald	Q49277
Sample Preparation:				2 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

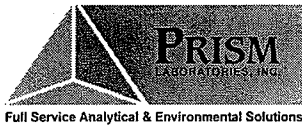
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

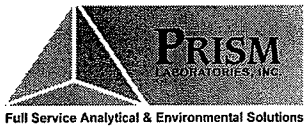
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-6-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.7	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatiles Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.8	1.6	1	8260B	04/06/10 14:30	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	4.8	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	4.8	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	4.8	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	4.8	1.0	1	8260B	04/06/10 14:30	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	9.6	1.6	1	8260B	04/06/10 14:30	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	4.8	2.0	1	8260B	04/06/10 14:30	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	9.6	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.8	1.7	1	8260B	04/06/10 14:30	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.8	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	9.6	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	4.8	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	4.8	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	9.6	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	4.8	0.98	1	8260B	04/06/10 14:30	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	9.6	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
2-Hexanone	BRL	µg/kg	48	1.5	1	8260B	04/06/10 14:30	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-6-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	9.6	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
Acetone	BRL	µg/kg	19	2.1	1	8260B	04/06/10 14:30	erussell	Q49229
Benzene	BRL	µg/kg	2.9	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
Bromobenzene	BRL	µg/kg	4.8	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Bromochloromethane	BRL	µg/kg	4.8	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
Bromoform	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
Bromomethane	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Carbon disulfide	BRL	µg/kg	9.6	0.98	1	8260B	04/06/10 14:30	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	4.8	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
Chlorobenzene	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	4.8	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Chloroethane	BRL	µg/kg	9.6	2.5	1	8260B	04/06/10 14:30	erussell	Q49229
Chloroform	BRL	µg/kg	4.8	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Chloromethane	BRL	µg/kg	9.6	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
Dibromomethane	BRL	µg/kg	4.8	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	9.6	0.98	1	8260B	04/06/10 14:30	erussell	Q49229
Ethylbenzene	BRL	µg/kg	4.8	1.0	1	8260B	04/06/10 14:30	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	14	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	4.8	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	9.6	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	9.6	2.6	1	8260B	04/06/10 14:30	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	19	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.8	1.0	1	8260B	04/06/10 14:30	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-6-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	9.6	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	14	1.8	1	8260B	04/06/10 14:30	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	9.6	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
Naphthalene	BRL	µg/kg	4.8	2.6	1	8260B	04/06/10 14:30	erussell	Q49229
o-Xylene	BRL	µg/kg	4.8	1.1	1	8260B	04/06/10 14:30	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	14	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	14	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
Styrene	BRL	µg/kg	4.8	0.93	1	8260B	04/06/10 14:30	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	19	1.3	1	8260B	04/06/10 14:30	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	9.6	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
Toluene	BRL	µg/kg	4.8	1.2	1	8260B	04/06/10 14:30	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	4.8	0.95	1	8260B	04/06/10 14:30	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	4.8	0.96	1	8260B	04/06/10 14:30	erussell	Q49229
Trichloroethene	BRL	µg/kg	4.8	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	4.8	1.4	1	8260B	04/06/10 14:30	erussell	Q49229
Vinyl chloride	BRL	µg/kg	9.6	1.3	1	8260B	04/06/10 14:30	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	103	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	98	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.15	g		1	5035	04/06/10	tbrown
Weight Bisulfate 2	6.20	g		1	5035	04/06/10	tbrown
Weight Methanol	6.00	g		1	5035	04/06/10	tbrown

Semi-volatile Organic Compounds by GC/MS

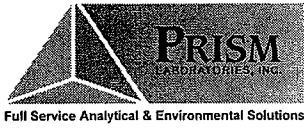
1,2,4-Trichlorobenzene	BRL	µg/kg	390	43	1	8270C	04/07/10 23:04	cphilbrick	Q49259
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Laboratory Report

04/19/10

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

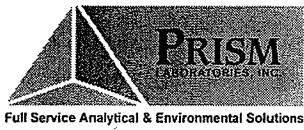
Client Sample ID: P2-6-6-8
 Prism Sample ID: 275461
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	390	43	1	8270C	04/07/10 23:04	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	390	38	1	8270C	04/07/10 23:04	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	390	47	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	390	47	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	390	42	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	390	26	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	390	58	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	390	110	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	390	52	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	390	71	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	390	49	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	390	16	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	390	44	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	390	32	1	8270C	04/07/10 23:04	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	390	55	1	8270C	04/07/10 23:04	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	390	46	1	8270C	04/07/10 23:04	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	390	71	1	8270C	04/07/10 23:04	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	390	34	1	8270C	04/07/10 23:04	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	390	49	1	8270C	04/07/10 23:04	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	390	46	1	8270C	04/07/10 23:04	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	390	49	1	8270C	04/07/10 23:04	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	390	50	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	390	53	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	390	37	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Anthracene	BRL	µg/kg	390	29	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	390	44	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	390	50	1	8270C	04/07/10 23:04	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

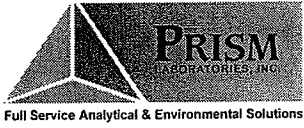
Client Sample ID: P2-6-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	390	80	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	390	50	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	390	110	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	390	66	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	390	49	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	390	39	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	390	30	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	390	48	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Chrysene	BRL	µg/kg	390	26	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	390	63	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	390	110	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	390	37	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	390	48	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	390	100	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	390	58	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	390	69	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Fluorene	BRL	µg/kg	390	56	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	390	54	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	390	39	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	390	58	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	390	16	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	390	37	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Isophorone	BRL	µg/kg	390	37	1	8270C	04/07/10 23:04	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	390	23	1	8270C	04/07/10 23:04	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	390	57	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	390	47	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	390	49	1	8270C	04/07/10 23:04	cphilbrick	Q49259

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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-6-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	390	60	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	390	33	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Phenol	BRL	µg/kg	390	69	1	8270C	04/07/10 23:04	cphilbrick	Q49259
Pyrene	BRL	µg/kg	390	75	1	8270C	04/07/10 23:04	cphilbrick	Q49259

Sample Preparation: 30.13 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	102	41 - 136
Phenol-d5	68	13 - 95
Nitrobenzene-d5	71	14 - 103
2-Fluorophenol	70	14 - 89
2-Fluorobiphenyl	72	21 - 108
2,4,6-Tribromophenol	79	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 8.3 1.3 1 8015B 04/08/10 18:40 jvogel Q49287

Sample Preparation: 25.06 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	61	49 - 124

Sample Weight Determination

Weight 1 6.16 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 6.52 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 6.0 3.7 50 8015B 04/08/10 18:36 heasler Q49295

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 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275461
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-6-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:25
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	81	55 - 129

Mercury by CVAA

Mercury	0.051	mg/kg	0.024	0.0016	1	7471A	04/09/10 15:33	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	2.7	mg/kg	0.60	0.068	1	6010B	04/09/10 1:00	pfitzgerald	Q49277
Barium	52	mg/kg	3.0	0.44	5	6010B	04/14/10 1:05	dsullivan	Q49277
Cadmium	1.5	mg/kg	0.30	0.032	1	6010B	04/09/10 1:00	pfitzgerald	Q49277
Chromium	55	mg/kg	0.30	0.041	1	6010B	04/09/10 1:00	pfitzgerald	Q49277
Lead	16	mg/kg	1.5	0.37	5	6010B	04/14/10 1:05	dsullivan	Q49277
Selenium	BRL	mg/kg	3.0	0.60	5	6010B	04/14/10 1:05	dsullivan	Q49277
Silver	BRL	mg/kg	0.30	0.030	1	6010B	04/09/10 1:00	pfitzgerald	Q49277
Sample Preparation:				2.01 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

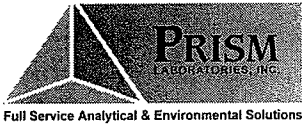
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275462
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-7-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.4	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.9	1.6	1	8260B	04/06/10 13:56	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	4.9	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	4.9	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	4.9	1.0	1	8260B	04/06/10 13:56	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	9.8	1.6	1	8260B	04/06/10 13:56	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	4.9	2.0	1	8260B	04/06/10 13:56	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	9.8	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.9	1.8	1	8260B	04/06/10 13:56	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	4.9	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	4.9	1.5	1	8260B	04/06/10 13:56	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	9.8	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	4.9	1.0	1	8260B	04/06/10 13:56	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	9.8	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	9.8	1.5	1	8260B	04/06/10 13:56	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
2-Hexanone	BRL	µg/kg	49	1.5	1	8260B	04/06/10 13:56	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275462
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-7-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	9.8	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	9.8	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
Acetone	BRL	µg/kg	20	2.1	1	8260B	04/06/10 13:56	erussell	Q49229
Benzene	BRL	µg/kg	2.9	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
Bromobenzene	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Bromochloromethane	BRL	µg/kg	4.9	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	4.9	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
Bromoform	BRL	µg/kg	4.9	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
Bromomethane	BRL	µg/kg	9.8	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Carbon disulfide	BRL	µg/kg	9.8	0.99	1	8260B	04/06/10 13:56	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
Chlorobenzene	BRL	µg/kg	4.9	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Chloroethane	BRL	µg/kg	9.8	2.5	1	8260B	04/06/10 13:56	erussell	Q49229
Chloroform	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Chloromethane	BRL	µg/kg	9.8	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Dibromomethane	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	9.8	1.0	1	8260B	04/06/10 13:56	erussell	Q49229
Ethylbenzene	BRL	µg/kg	4.9	1.0	1	8260B	04/06/10 13:56	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	15	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	9.8	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	9.8	2.6	1	8260B	04/06/10 13:56	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	20	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.9	1.0	1	8260B	04/06/10 13:56	erussell	Q49229

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04/19/10

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 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-7-6-8
 Prism Sample ID: 275462
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	15	1.8	1	8260B	04/06/10 13:56	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	9.8	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
Naphthalene	BRL	µg/kg	4.9	2.7	1	8260B	04/06/10 13:56	erussell	Q49229
o-Xylene	BRL	µg/kg	4.9	1.1	1	8260B	04/06/10 13:56	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	15	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	15	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
Styrene	BRL	µg/kg	4.9	0.95	1	8260B	04/06/10 13:56	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	20	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229
Toluene	BRL	µg/kg	4.9	1.2	1	8260B	04/06/10 13:56	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	4.9	0.97	1	8260B	04/06/10 13:56	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	4.9	0.98	1	8260B	04/06/10 13:56	erussell	Q49229
Trichloroethene	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	4.9	1.4	1	8260B	04/06/10 13:56	erussell	Q49229
Vinyl chloride	BRL	µg/kg	9.8	1.3	1	8260B	04/06/10 13:56	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	103	81 - 128
Dibromofluoromethane	104	67 - 143
Bromofluorobenzene	97	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.28	g		1	5035	04/06/10	lbrown
Weight Bisulfate 2	5.92	g		1	5035	04/06/10	lbrown
Weight Methanol	6.23	g		1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	400	45	1	8270C	04/07/10 23:34	cphilbrick	Q49259
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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

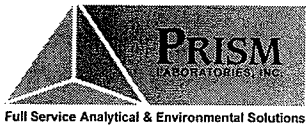
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275462
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-7-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	400	45	1	8270C	04/07/10 23:34	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	400	39	1	8270C	04/07/10 23:34	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	400	48	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	400	48	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	400	44	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	400	27	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	400	60	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	400	120	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	400	53	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	400	73	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	400	51	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	400	17	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	400	45	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	400	33	1	8270C	04/07/10 23:34	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	400	57	1	8270C	04/07/10 23:34	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	400	47	1	8270C	04/07/10 23:34	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	400	73	1	8270C	04/07/10 23:34	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	400	35	1	8270C	04/07/10 23:34	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	400	50	1	8270C	04/07/10 23:34	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	400	48	1	8270C	04/07/10 23:34	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	400	51	1	8270C	04/07/10 23:34	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	400	52	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	400	55	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	400	38	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Anthracene	BRL	µg/kg	400	29	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	400	46	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	400	51	1	8270C	04/07/10 23:34	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275462
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-7-6-8
 Prism Sample ID: 275462
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

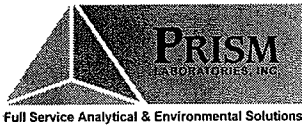
Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	400	83	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	400	52	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	400	110	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	400	68	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	400	50	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	400	41	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	400	31	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	400	50	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Chrysene	BRL	µg/kg	400	27	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	400	65	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	400	120	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	400	38	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	400	49	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	400	100	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	400	60	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	400	72	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Fluorene	BRL	µg/kg	400	58	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	400	56	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	400	40	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	400	60	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	400	17	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	400	38	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Isophorone	BRL	µg/kg	400	39	1	8270C	04/07/10 23:34	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	400	24	1	8270C	04/07/10 23:34	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	400	59	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	400	48	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	400	51	1	8270C	04/07/10 23:34	cphilbrick	Q49259

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Page 47 of 89



NC Certification No. 402
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275462
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-7-6-8
 Prism Sample ID: 275462
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	400	62	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	400	34	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Phenol	BRL	µg/kg	400	71	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Pyrene	BRL	µg/kg	400	77	1	8270C	04/07/10 23:34	cphilbrick	Q49259
Sample Preparation:			30.04 g	/	1 mL	3550B	04/06/10 13:30	aguptill	P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	96	41 - 136
Phenol-d5	82	13 - 95
Nitrobenzene-d5	84	14 - 103
2-Fluorophenol	87	14 - 89
2-Fluorobiphenyl	82	21 - 108
2,4,6-Tribromophenol	79	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	04/09/10 4:09	jvogel	Q49287
Sample Preparation:			25.12 g	/	1 mL	3545	04/07/10 17:00	athao	P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	77	49 - 124

Sample Weight Determination

Weight 1	4.82	g			1	GRO	04/06/10 0:00	lbrown
Weight 2	5.66	g			1	GRO	04/06/10 0:00	lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	04/08/10 19:07	heasler	Q49295
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 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275462
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 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-7-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 10:55
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>aaa-TFT</td> <td>82</td> <td>55 - 129</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	aaa-TFT	82	55 - 129
Surrogate	% Recovery	Control Limits													
aaa-TFT	82	55 - 129													
Mercury by CVAA															
Mercury	0.030	mg/kg	0.025	0.0017	1	7471A	04/09/10 15:37	kpowers	Q49336						
Sample Preparation:				0.6 g	/	30 mL	7471A	04/09/10 8:20	kpowers	P27230					
Metals by ICP															
Arsenic	BRL	mg/kg	0.61	0.069	1	6010B	04/09/10 1:07	pfitzgerald	Q49277						
Barium	140	mg/kg	3.1	0.46	5	6010B	04/14/10 1:11	dsullivan	Q49277						
Cadmium	2.7	mg/kg	0.31	0.033	1	6010B	04/09/10 1:07	pfitzgerald	Q49277						
Chromium	32	mg/kg	0.31	0.042	1	6010B	04/09/10 1:07	pfitzgerald	Q49277						
Lead	17	mg/kg	1.5	0.38	5	6010B	04/14/10 1:11	dsullivan	Q49277						
Selenium	BRL	mg/kg	3.1	0.62	5	6010B	04/14/10 1:11	dsullivan	Q49277						
Silver	BRL	mg/kg	0.31	0.031	1	6010B	04/09/10 1:07	pfitzgerald	Q49277						
Sample Preparation:				2.04 g	/	50 mL	3050B	04/07/10 9:15	jbrayton	P27212					

Sample Comment(s):

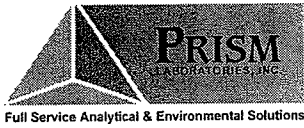
BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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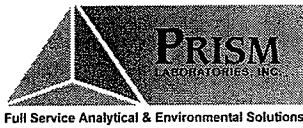
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.9	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.3	1.4	1	8260B	04/06/10 13:23	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	4.3	0.98	1	8260B	04/06/10 13:23	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	4.3	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	4.3	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	4.3	0.89	1	8260B	04/06/10 13:23	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	8.5	1.4	1	8260B	04/06/10 13:23	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	4.3	1.8	1	8260B	04/06/10 13:23	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	8.5	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.3	1.5	1	8260B	04/06/10 13:23	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	8.5	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	4.3	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	4.3	1.3	1	8260B	04/06/10 13:23	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	8.5	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	4.3	0.88	1	8260B	04/06/10 13:23	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	4.3	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	8.5	1.3	1	8260B	04/06/10 13:23	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
2-Hexanone	BRL	µg/kg	43	1.3	1	8260B	04/06/10 13:23	erussell	Q49229

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	8.5	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	8.5	0.93	1	8260B	04/06/10 13:23	erussell	Q49229
Acetone	BRL	µg/kg	17	1.9	1	8260B	04/06/10 13:23	erussell	Q49229
Benzene	BRL	µg/kg	2.6	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Bromobenzene	BRL	µg/kg	4.3	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
Bromochloromethane	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	4.3	0.98	1	8260B	04/06/10 13:23	erussell	Q49229
Bromoform	BRL	µg/kg	4.3	0.93	1	8260B	04/06/10 13:23	erussell	Q49229
Bromomethane	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Carbon disulfide	BRL	µg/kg	8.5	0.87	1	8260B	04/06/10 13:23	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Chlorobenzene	BRL	µg/kg	4.3	0.97	1	8260B	04/06/10 13:23	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	4.3	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Chloroethane	BRL	µg/kg	8.5	2.2	1	8260B	04/06/10 13:23	erussell	Q49229
Chloroform	BRL	µg/kg	4.3	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Chloromethane	BRL	µg/kg	8.5	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	4.3	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	4.3	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
Dibromomethane	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	8.5	0.88	1	8260B	04/06/10 13:23	erussell	Q49229
Ethylbenzene	BRL	µg/kg	4.3	0.89	1	8260B	04/06/10 13:23	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	13	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	4.3	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	8.5	0.95	1	8260B	04/06/10 13:23	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	8.5	2.3	1	8260B	04/06/10 13:23	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	17	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.3	0.89	1	8260B	04/06/10 13:23	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 13:23	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	8.5	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Naphthalene	BRL	µg/kg	4.3	2.3	1	8260B	04/06/10 13:23	erussell	Q49229
o-Xylene	BRL	µg/kg	4.3	0.95	1	8260B	04/06/10 13:23	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	13	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	13	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Styrene	BRL	µg/kg	4.3	0.83	1	8260B	04/06/10 13:23	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	17	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229
Toluene	BRL	µg/kg	4.3	1.0	1	8260B	04/06/10 13:23	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	4.3	0.84	1	8260B	04/06/10 13:23	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	4.3	0.85	1	8260B	04/06/10 13:23	erussell	Q49229
Trichloroethene	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	4.3	1.2	1	8260B	04/06/10 13:23	erussell	Q49229
Vinyl chloride	BRL	µg/kg	8.5	1.1	1	8260B	04/06/10 13:23	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	103	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	98	77 - 128

Sample Weight Determination

Weight Bisulfate 1	7.16	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	7.30	g	1	5035	04/06/10	lbrown
Weight Methanol	6.71	g	1	5035	04/06/10	lbrown

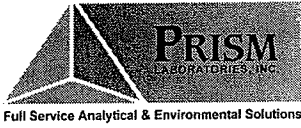
Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	400	44	1	8270C	04/08/10 0:03	cphilbrick	Q49259
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

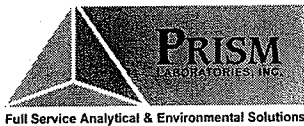
Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	400	44	1	8270C	04/08/10 0:03	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	400	39	1	8270C	04/08/10 0:03	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	400	48	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	400	47	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	400	43	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	400	26	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	400	59	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	400	120	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	400	52	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	400	72	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	400	50	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	400	17	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	400	45	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	400	32	1	8270C	04/08/10 0:03	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	400	56	1	8270C	04/08/10 0:03	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	400	47	1	8270C	04/08/10 0:03	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	400	72	1	8270C	04/08/10 0:03	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	400	34	1	8270C	04/08/10 0:03	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	400	50	1	8270C	04/08/10 0:03	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	400	47	1	8270C	04/08/10 0:03	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	400	50	1	8270C	04/08/10 0:03	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	400	51	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	400	54	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	400	37	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Anthracene	BRL	µg/kg	400	29	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	400	45	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	400	50	1	8270C	04/08/10 0:03	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

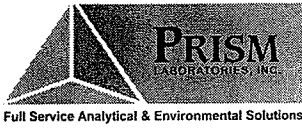
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	400	81	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	400	51	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	400	110	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	400	67	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	400	49	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	400	40	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	400	31	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	400	49	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Chrysene	BRL	µg/kg	400	27	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	400	64	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	400	120	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	400	37	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	400	49	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	400	100	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	400	59	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	400	70	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Fluorene	BRL	µg/kg	400	57	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	400	55	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	400	40	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	400	59	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	400	16	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	400	38	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Isophorone	BRL	µg/kg	400	38	1	8270C	04/08/10 0:03	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	400	23	1	8270C	04/08/10 0:03	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	400	58	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	400	48	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	400	50	1	8270C	04/08/10 0:03	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	400	61	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	400	34	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Phenol	BRL	µg/kg	400	70	1	8270C	04/08/10 0:03	cphilbrick	Q49259
Pyrene	BRL	µg/kg	400	76	1	8270C	04/08/10 0:03	cphilbrick	Q49259

Sample Preparation: 30.3 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	89	41 - 136
Phenol-d5	69	13 - 95
Nitrobenzene-d5	70	14 - 103
2-Fluorophenol	74	14 - 89
2-Fluorobiphenyl	69	21 - 108
2,4,6-Tribromophenol	68	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 8.5 1.4 1 8015B 04/08/10 19:15 jvogel Q49287

Sample Preparation: 25.09 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	56	49 - 124

Sample Weight Determination

Weight 1 6.69 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 6.69 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 6.1 3.8 50 8015B 04/08/10 19:39 heasler Q49295

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275463
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-8-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:20
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	96	55 - 129

Mercury by CVAA

Mercury	0.072	mg/kg	0.024	0.0017	1	7471A	04/09/10 15:42	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	2.7	mg/kg	0.61	0.069	1	6010B	04/09/10 1:14	pfitzgerald	Q49277
Barium	32	mg/kg	3.1	0.45	5	6010B	04/14/10 1:18	dsullivan	Q49277
Cadmium	1.1	mg/kg	0.31	0.032	1	6010B	04/09/10 1:14	pfitzgerald	Q49277
Chromium	33	mg/kg	0.31	0.042	1	6010B	04/09/10 1:14	pfitzgerald	Q49277
Lead	17	mg/kg	1.5	0.38	5	6010B	04/14/10 1:18	dsullivan	Q49277
Selenium	2.0 J	mg/kg	3.1	0.62	5	6010B	04/14/10 1:18	dsullivan	Q49277
Silver	BRL	mg/kg	0.31	0.031	1	6010B	04/09/10 1:14	pfitzgerald	Q49277
Sample Preparation:				2.05 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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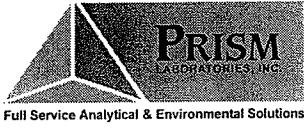
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275464
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-9-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	64.3	%			1	SM2540 G	04/05/10 13:30	jbrayton	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	6.2	2.1	1	8260B	04/06/10 20:05	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	6.2	1.4	1	8260B	04/06/10 20:05	erussell	Q49229
1,1,1,2,2-Tetrachloroethane	BRL	µg/kg	6.2	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	6.2	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	6.2	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	6.2	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	12	2.0	1	8260B	04/06/10 20:05	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	6.2	2.6	1	8260B	04/06/10 20:05	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	12	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	12	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	6.2	2.2	1	8260B	04/06/10 20:05	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	6.2	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	12	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	6.2	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	6.2	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	12	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	12	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	6.2	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	12	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	12	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	12	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
2-Hexanone	BRL	µg/kg	62	1.9	1	8260B	04/06/10 20:05	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275464
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-9-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	12	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	12	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
Acetone	13 J	µg/kg	25	2.7	1	8260B	04/06/10 20:05	erussell	Q49229
Benzene	BRL	µg/kg	3.7	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Bromobenzene	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
Bromochloromethane	BRL	µg/kg	6.2	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	6.2	1.4	1	8260B	04/06/10 20:05	erussell	Q49229
Bromoform	BRL	µg/kg	6.2	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
Bromomethane	BRL	µg/kg	12	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Carbon disulfide	BRL	µg/kg	12	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	6.2	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
Chlorobenzene	BRL	µg/kg	6.2	1.4	1	8260B	04/06/10 20:05	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	6.2	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Chloroethane	BRL	µg/kg	12	3.2	1	8260B	04/06/10 20:05	erussell	Q49229
Chloroform	BRL	µg/kg	6.2	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Chloromethane	BRL	µg/kg	12	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
Dibromomethane	BRL	µg/kg	6.2	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	12	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
Ethylbenzene	BRL	µg/kg	6.2	1.3	1	8260B	04/06/10 20:05	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	19	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	12	1.4	1	8260B	04/06/10 20:05	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	12	3.3	1	8260B	04/06/10 20:05	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	25	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	6.2	1.3	1	8260B	04/06/10 20:05	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275464
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-9-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	12	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	19	2.3	1	8260B	04/06/10 20:05	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	12	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
Naphthalene	BRL	µg/kg	6.2	3.4	1	8260B	04/06/10 20:05	erussell	Q49229
o-Xylene	BRL	µg/kg	6.2	1.4	1	8260B	04/06/10 20:05	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	19	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	19	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Styrene	BRL	µg/kg	6.2	1.2	1	8260B	04/06/10 20:05	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	25	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	12	1.6	1	8260B	04/06/10 20:05	erussell	Q49229
Toluene	BRL	µg/kg	6.2	1.5	1	8260B	04/06/10 20:05	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	6.2	1.2	1	8260B	04/06/10 20:05	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	6.2	1.2	1	8260B	04/06/10 20:05	erussell	Q49229
Trichloroethene	BRL	µg/kg	6.2	1.7	1	8260B	04/06/10 20:05	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	6.2	1.8	1	8260B	04/06/10 20:05	erussell	Q49229
Vinyl chloride	BRL	µg/kg	12	1.6	1	8260B	04/06/10 20:05	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	104	67 - 143
Bromofluorobenzene	98	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.29	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	6.07	g	1	5035	04/06/10	lbrown
Weight Methanol	5.96	g	1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	510	56	1	8270C	04/08/10 0:33	cphilbrick	Q49259
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Laboratory Report

04/19/10

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 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275464
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

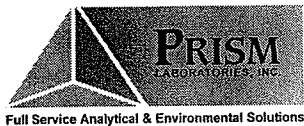
Client Sample ID: P2-9-6-8
 Prism Sample ID: 275464
 COC Group: G0410028
 Time Collected: 03/30/10 11:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	510	57	1	8270C	04/08/10 0:33	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	510	50	1	8270C	04/08/10 0:33	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	510	61	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	510	61	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	510	55	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	510	34	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	510	76	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	510	150	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	510	67	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	510	92	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	510	64	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	510	21	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	510	57	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	510	41	1	8270C	04/08/10 0:33	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	510	72	1	8270C	04/08/10 0:33	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	510	60	1	8270C	04/08/10 0:33	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	510	93	1	8270C	04/08/10 0:33	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	510	44	1	8270C	04/08/10 0:33	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	510	64	1	8270C	04/08/10 0:33	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	510	60	1	8270C	04/08/10 0:33	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	510	65	1	8270C	04/08/10 0:33	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	510	65	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	510	69	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	510	48	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Anthracene	BRL	µg/kg	510	37	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	510	58	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	510	65	1	8270C	04/08/10 0:33	cphilbrick	Q49259

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

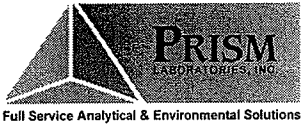
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275464
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-9-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	510	100	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	510	65	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	510	140	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	510	86	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	510	63	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	510	51	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	510	40	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	510	63	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Chrysene	BRL	µg/kg	510	34	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	510	82	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	510	150	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	510	48	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	510	63	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	510	130	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	510	76	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	510	90	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Fluorene	BRL	µg/kg	510	73	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	510	70	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	510	51	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	510	76	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	510	21	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	510	49	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Isophorone	BRL	µg/kg	510	49	1	8270C	04/08/10 0:33	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	510	30	1	8270C	04/08/10 0:33	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	510	74	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	510	61	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	510	64	1	8270C	04/08/10 0:33	cphilbrick	Q49259

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Laboratory Report

04/19/10

N. C. Department of Transportation
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 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275464
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-9-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 11:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	510	78	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	510	43	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Phenol	BRL	µg/kg	510	90	1	8270C	04/08/10 0:33	cphilbrick	Q49259
Pyrene	BRL	µg/kg	510	98	1	8270C	04/08/10 0:33	cphilbrick	Q49259

Sample Preparation: 30.08 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	80	41 - 136
Phenol-d5	64	13 - 95
Nitrobenzene-d5	66	14 - 103
2-Fluorophenol	68	14 - 89
2-Fluorobiphenyl	67	21 - 108
2,4,6-Tribromophenol	61	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 7.8 1.8 1 8015B 04/08/10 19:50 jvogel Q49287

Sample Preparation: 24.97 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	61	49 - 124

Sample Weight Determination

Weight 1 6.05 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 6.45 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 7.8 4.9 50 8015B 04/08/10 20:10 heasler Q49295

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

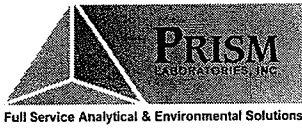
Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	76.2	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatiles Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.6	1.8	1	8260B	04/06/10 19:31	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.6	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	5.6	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	5.6	1.2	1	8260B	04/06/10 19:31	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	11	1.8	1	8260B	04/06/10 19:31	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	5.6	2.3	1	8260B	04/06/10 19:31	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	11	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.6	2.0	1	8260B	04/06/10 19:31	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.6	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	11	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	5.6	1.7	1	8260B	04/06/10 19:31	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	11	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	11	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	5.6	1.1	1	8260B	04/06/10 19:31	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	11	1.7	1	8260B	04/06/10 19:31	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
2-Hexanone	BRL	µg/kg	56	1.7	1	8260B	04/06/10 19:31	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.2	1	8260B	04/06/10 19:31	erussell	Q49229
Acetone	15 J	µg/kg	22	2.4	1	8260B	04/06/10 19:31	erussell	Q49229
Benzene	BRL	µg/kg	3.3	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
Bromobenzene	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Bromochloromethane	BRL	µg/kg	5.6	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
Bromoform	BRL	µg/kg	5.6	1.2	1	8260B	04/06/10 19:31	erussell	Q49229
Bromomethane	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Carbon disulfide	BRL	µg/kg	11	1.1	1	8260B	04/06/10 19:31	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	5.6	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
Chlorobenzene	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Chloroethane	BRL	µg/kg	11	2.9	1	8260B	04/06/10 19:31	erussell	Q49229
Chloroform	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Chloromethane	BRL	µg/kg	11	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	5.6	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
Dibromomethane	BRL	µg/kg	5.6	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	11	1.1	1	8260B	04/06/10 19:31	erussell	Q49229
Ethylbenzene	BRL	µg/kg	5.6	1.2	1	8260B	04/06/10 19:31	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	17	1.3	1	8260B	04/06/10 19:31	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	11	1.2	1	8260B	04/06/10 19:31	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	11	3.0	1	8260B	04/06/10 19:31	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	22	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.6	1.2	1	8260B	04/06/10 19:31	erussell	Q49229

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	11	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	17	2.0	1	8260B	04/06/10 19:31	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	11	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
Naphthalene	BRL	µg/kg	5.6	3.0	1	8260B	04/06/10 19:31	erussell	Q49229
o-Xylene	BRL	µg/kg	5.6	1.2	1	8260B	04/06/10 19:31	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	17	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	17	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
Styrene	BRL	µg/kg	5.6	1.1	1	8260B	04/06/10 19:31	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	22	1.5	1	8260B	04/06/10 19:31	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
Toluene	BRL	µg/kg	5.6	1.4	1	8260B	04/06/10 19:31	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	5.6	1.1	1	8260B	04/06/10 19:31	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	5.6	1.1	1	8260B	04/06/10 19:31	erussell	Q49229
Trichloroethene	BRL	µg/kg	5.6	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	5.6	1.6	1	8260B	04/06/10 19:31	erussell	Q49229
Vinyl chloride	BRL	µg/kg	11	1.4	1	8260B	04/06/10 19:31	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	98	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.41	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	5.91	g	1	5035	04/06/10	lbrown
Weight Methanol	6.41	g	1	5035	04/06/10	lbrown

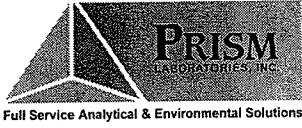
Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	430	48	1	8270C	04/08/10 1:03	cphilbrick	Q49259
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	430	48	1	8270C	04/08/10 1:03	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	430	42	1	8270C	04/08/10 1:03	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	430	52	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	430	51	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	430	47	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	430	28	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	430	64	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	430	130	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	430	57	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	430	78	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	430	54	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	430	18	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	430	48	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	430	35	1	8270C	04/08/10 1:03	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	430	61	1	8270C	04/08/10 1:03	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	430	51	1	8270C	04/08/10 1:03	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	430	78	1	8270C	04/08/10 1:03	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	430	37	1	8270C	04/08/10 1:03	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	430	54	1	8270C	04/08/10 1:03	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	430	51	1	8270C	04/08/10 1:03	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	430	55	1	8270C	04/08/10 1:03	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	430	55	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	430	59	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	430	41	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Anthracene	BRL	µg/kg	430	31	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	430	49	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	430	55	1	8270C	04/08/10 1:03	cphilbrick	Q49259

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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	430	88	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	430	55	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	430	120	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	430	73	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	430	54	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	430	43	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	430	33	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	430	53	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Chrysene	BRL	µg/kg	430	29	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	430	69	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	430	120	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	430	40	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	430	53	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	430	110	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	430	64	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	430	76	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Fluorene	BRL	µg/kg	430	62	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	430	59	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	430	43	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	430	64	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	430	18	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	430	41	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Isophorone	BRL	µg/kg	430	41	1	8270C	04/08/10 1:03	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	430	25	1	8270C	04/08/10 1:03	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	430	63	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	430	52	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	430	54	1	8270C	04/08/10 1:03	cphilbrick	Q49259

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	430	66	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	430	37	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Phenol	BRL	µg/kg	430	76	1	8270C	04/08/10 1:03	cphilbrick	Q49259
Pyrene	BRL	µg/kg	430	83	1	8270C	04/08/10 1:03	cphilbrick	Q49259

Sample Preparation: 30.04 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	107	41 - 136
Phenol-d5	77	13 - 95
Nitrobenzene-d5	81	14 - 103
2-Fluorophenol	81	14 - 89
2-Fluorobiphenyl	79	21 - 108
2,4,6-Tribromophenol	77	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 9.1 1.5 1 8015B 04/08/10 20:25 jvoegel Q49287

Sample Preparation: 25.19 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	54	49 - 124

Sample Weight Determination

Weight 1 5.71 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 6.13 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 6.6 4.1 50 8015B 04/08/10 21:44 heasler Q49295

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Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275465
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-10-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:18
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
aaa-TFT	109	55 - 129

Mercury by CVAA

Mercury	0.073	mg/kg	0.026	0.0018	1	7471A	04/09/10 16:00	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	3.6	mg/kg	0.66	0.074	1	6010B	04/09/10 1:28	pfitzgerald	Q49277
Barium	45	mg/kg	3.3	0.49	5	6010B	04/14/10 1:33	dsullivan	Q49277
Cadmium	1.4	mg/kg	0.33	0.035	1	6010B	04/09/10 1:28	pfitzgerald	Q49277
Chromium	56	mg/kg	0.33	0.045	1	6010B	04/09/10 1:28	pfitzgerald	Q49277
Lead	21	mg/kg	1.6	0.40	5	6010B	04/14/10 1:33	dsullivan	Q49277
Selenium	1.5 J	mg/kg	3.3	0.66	5	6010B	04/14/10 1:33	dsullivan	Q49277
Silver	BRL	mg/kg	0.33	0.033	1	6010B	04/09/10 1:28	pfitzgerald	Q49277
Sample Preparation:				2.05 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

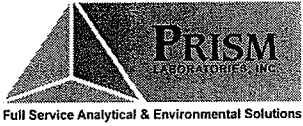
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

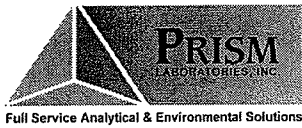
Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275466
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-11-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	73.2	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatiles Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	6.4	2.1	1	8260B	04/06/10 18:58	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	6.4	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	6.4	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	6.4	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	6.4	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	13	2.1	1	8260B	04/06/10 18:58	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	6.4	2.7	1	8260B	04/06/10 18:58	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	6.4	2.3	1	8260B	04/06/10 18:58	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	6.4	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	6.4	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	6.4	1.9	1	8260B	04/06/10 18:58	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	13	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	6.4	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	13	1.9	1	8260B	04/06/10 18:58	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
2-Hexanone	BRL	µg/kg	64	1.9	1	8260B	04/06/10 18:58	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
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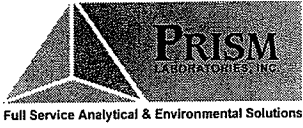
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 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275466
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-11-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	13	1.4	1	8260B	04/06/10 18:58	erussell	Q49229
Acetone	BRL	µg/kg	26	2.8	1	8260B	04/06/10 18:58	erussell	Q49229
Benzene	BRL	µg/kg	3.8	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
Bromobenzene	BRL	µg/kg	6.4	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
Bromochloromethane	BRL	µg/kg	6.4	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
Bromoform	BRL	µg/kg	6.4	1.4	1	8260B	04/06/10 18:58	erussell	Q49229
Bromomethane	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
Carbon disulfide	BRL	µg/kg	13	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	6.4	1.9	1	8260B	04/06/10 18:58	erussell	Q49229
Chlorobenzene	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	6.4	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
Chloroethane	BRL	µg/kg	13	3.3	1	8260B	04/06/10 18:58	erussell	Q49229
Chloroform	BRL	µg/kg	6.4	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
Chloromethane	BRL	µg/kg	13	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	6.4	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
Dibromomethane	BRL	µg/kg	6.4	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	13	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
Ethylbenzene	BRL	µg/kg	6.4	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	19	1.5	1	8260B	04/06/10 18:58	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	6.4	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	13	1.4	1	8260B	04/06/10 18:58	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	13	3.4	1	8260B	04/06/10 18:58	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	26	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	6.4	1.3	1	8260B	04/06/10 18:58	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275466
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-11-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	19	2.3	1	8260B	04/06/10 18:58	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	13	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
Naphthalene	BRL	µg/kg	6.4	3.5	1	8260B	04/06/10 18:58	erussell	Q49229
o-Xylene	BRL	µg/kg	6.4	1.4	1	8260B	04/06/10 18:58	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	19	1.9	1	8260B	04/06/10 18:58	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	19	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
Styrene	BRL	µg/kg	6.4	1.2	1	8260B	04/06/10 18:58	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	26	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:58	erussell	Q49229
Toluene	BRL	µg/kg	6.4	1.6	1	8260B	04/06/10 18:58	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	6.4	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	6.4	1.3	1	8260B	04/06/10 18:58	erussell	Q49229
Trichloroethene	BRL	µg/kg	6.4	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	6.4	1.8	1	8260B	04/06/10 18:58	erussell	Q49229
Vinyl chloride	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:58	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	106	67 - 143
Bromofluorobenzene	98	77 - 128

Sample Weight Determination

Weight Bisulfate 1	5.34	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2	5.34	g	1	5035	04/06/10	lbrown
Weight Methanol	5.60	g	1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	450	49	1	8270C	04/08/10 1:33	cphilbrick	Q49259
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Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	450	49	1	8270C	04/08/10 1:33	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	450	43	1	8270C	04/08/10 1:33	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	450	53	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	450	53	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	450	48	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	450	29	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	450	66	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	450	130	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	450	58	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	450	80	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	450	56	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	450	19	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	450	50	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	450	36	1	8270C	04/08/10 1:33	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	450	63	1	8270C	04/08/10 1:33	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	450	52	1	8270C	04/08/10 1:33	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	450	81	1	8270C	04/08/10 1:33	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	450	38	1	8270C	04/08/10 1:33	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	450	55	1	8270C	04/08/10 1:33	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	450	53	1	8270C	04/08/10 1:33	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	450	56	1	8270C	04/08/10 1:33	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	450	57	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	450	60	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	450	42	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Anthracene	BRL	µg/kg	450	32	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	450	50	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	450	56	1	8270C	04/08/10 1:33	cphilbrick	Q49259

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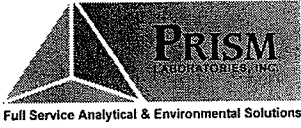
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Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	450	91	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	450	57	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	450	120	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	450	75	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	450	55	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	450	45	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	450	34	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	450	55	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Chrysene	BRL	µg/kg	450	30	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	450	71	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	450	130	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	450	42	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	450	54	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	450	110	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	450	66	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	450	79	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Fluorene	BRL	µg/kg	450	63	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	450	61	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	450	44	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	450	66	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	450	18	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	450	42	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Isophorone	BRL	µg/kg	450	43	1	8270C	04/08/10 1:33	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	450	26	1	8270C	04/08/10 1:33	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	450	65	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	450	53	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	450	56	1	8270C	04/08/10 1:33	cphilbrick	Q49259

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 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	450	68	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	450	38	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Phenol	BRL	µg/kg	450	78	1	8270C	04/08/10 1:33	cphilbrick	Q49259
Pyrene	BRL	µg/kg	450	85	1	8270C	04/08/10 1:33	cphilbrick	Q49259

Sample Preparation: 30.37 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	98	41 - 136
Phenol-d5	60	13 - 95
Nitrobenzene-d5	62	14 - 103
2-Fluorophenol	60	14 - 89
2-Fluorobiphenyl	64	21 - 108
2,4,6-Tribromophenol	72	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 9.5 1.5 1 8015B 04/09/10 5:56 jvogel Q49287

Sample Preparation: 25.11 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	76	49 - 124

Sample Weight Determination

Weight 1 5.85 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 5.33 g 1 GRO 04/06/10 0:00 lbrown

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 6.8 4.3 50 8015B 04/08/10 22:16 heasler Q49295

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275466
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-11-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 12:40
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate recovery was outside the control limits. No target compounds were detected in this sample that were associated with this surrogate. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	135 #	55 - 129

Mercury by CVAA

Mercury	0.031	mg/kg	0.027	0.0019	1	7471A	04/09/10 16:04	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	2.9	mg/kg	0.68	0.077	1	6010B	04/09/10 1:36	pfitzgerald	Q49277
Barium	95	mg/kg	3.4	0.51	5	6010B	04/14/10 1:40	dsullivan	Q49277
Cadmium	1.5	mg/kg	0.34	0.036	1	6010B	04/09/10 1:36	pfitzgerald	Q49277
Chromium	14	mg/kg	0.34	0.047	1	6010B	04/09/10 1:36	pfitzgerald	Q49277
Lead	38	mg/kg	1.7	0.42	5	6010B	04/14/10 1:40	dsullivan	Q49277
Selenium	1.2 J	mg/kg	3.4	0.69	5	6010B	04/14/10 1:40	dsullivan	Q49277
Silver	BRL	mg/kg	0.34	0.035	1	6010B	04/09/10 1:36	pfitzgerald	Q49277
Sample Preparation:				2 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

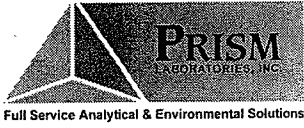
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275467
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	63.8	%			1	SM2540 G	04/05/10 13:30	jbrayton	
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	6.7	2.2	1	8260B	04/06/10 18:25	erussell	Q49229
1,1,1-Trichloroethane	BRL	µg/kg	6.7	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
1,1,2,2-Tetrachloroethane	BRL	µg/kg	6.7	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
1,1,2-Trichloroethane	BRL	µg/kg	6.7	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
1,1-Dichloroethane	BRL	µg/kg	6.7	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
1,1-Dichloroethene	BRL	µg/kg	6.7	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
1,1-Dichloropropene	BRL	µg/kg	6.7	1.4	1	8260B	04/06/10 18:25	erussell	Q49229
1,2,3-Trichlorobenzene	BRL	µg/kg	13	2.2	1	8260B	04/06/10 18:25	erussell	Q49229
1,2,3-Trichloropropane	BRL	µg/kg	6.7	2.8	1	8260B	04/06/10 18:25	erussell	Q49229
1,2,4-Trichlorobenzene	BRL	µg/kg	13	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
1,2,4-Trimethylbenzene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
1,2-Dibromo-3-chloropropane	BRL	µg/kg	6.7	2.4	1	8260B	04/06/10 18:25	erussell	Q49229
1,2-Dibromoethane (EDB)	BRL	µg/kg	6.7	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
1,2-Dichlorobenzene	BRL	µg/kg	13	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
1,2-Dichloroethane	BRL	µg/kg	6.7	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
1,2-Dichloropropane	BRL	µg/kg	6.7	2.0	1	8260B	04/06/10 18:25	erussell	Q49229
1,3,5-Trimethylbenzene	BRL	µg/kg	13	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
1,3-Dichlorobenzene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
1,3-Dichloropropane	BRL	µg/kg	6.7	1.4	1	8260B	04/06/10 18:25	erussell	Q49229
1,4-Dichlorobenzene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
2,2-Dichloropropane	BRL	µg/kg	6.7	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
2-Chloroethyl vinyl ether	BRL	µg/kg	13	2.0	1	8260B	04/06/10 18:25	erussell	Q49229
2-Chlorotoluene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
2-Hexanone	BRL	µg/kg	67	2.0	1	8260B	04/06/10 18:25	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275467
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	13	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
Acetone	BRL	µg/kg	27	2.9	1	8260B	04/06/10 18:25	erussell	Q49229
Benzene	BRL	µg/kg	4.0	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
Bromobenzene	BRL	µg/kg	6.7	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
Bromochloromethane	BRL	µg/kg	6.7	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
Bromodichloromethane	BRL	µg/kg	6.7	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
Bromoform	BRL	µg/kg	6.7	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
Bromomethane	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
Carbon disulfide	BRL	µg/kg	13	1.4	1	8260B	04/06/10 18:25	erussell	Q49229
Carbon tetrachloride	BRL	µg/kg	6.7	2.0	1	8260B	04/06/10 18:25	erussell	Q49229
Chlorobenzene	BRL	µg/kg	6.7	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
Chlorodibromomethane	BRL	µg/kg	6.7	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
Chloroethane	BRL	µg/kg	13	3.5	1	8260B	04/06/10 18:25	erussell	Q49229
Chloroform	BRL	µg/kg	6.7	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
Chloromethane	BRL	µg/kg	13	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
cis-1,2-Dichloroethene	BRL	µg/kg	6.7	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
cis-1,3-Dichloropropene	BRL	µg/kg	6.7	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
Dibromomethane	BRL	µg/kg	6.7	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
Dichlorodifluoromethane	BRL	µg/kg	13	1.4	1	8260B	04/06/10 18:25	erussell	Q49229
Ethylbenzene	BRL	µg/kg	6.7	1.4	1	8260B	04/06/10 18:25	erussell	Q49229
Hexachlorobutadiene	BRL	µg/kg	20	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
Isopropyl ether (IPE)	BRL	µg/kg	6.7	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
Isopropylbenzene	BRL	µg/kg	13	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
m,p-Xylenes	BRL	µg/kg	13	3.6	1	8260B	04/06/10 18:25	erussell	Q49229
Methyl ethyl ketone (MEK)	BRL	µg/kg	27	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
Methyl t-butyl ether (MTBE)	BRL	µg/kg	6.7	1.4	1	8260B	04/06/10 18:25	erussell	Q49229

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275467
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	13	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
n-Butylbenzene	BRL	µg/kg	20	2.4	1	8260B	04/06/10 18:25	erussell	Q49229
n-Propylbenzene	BRL	µg/kg	13	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
Naphthalene	BRL	µg/kg	6.7	3.6	1	8260B	04/06/10 18:25	erussell	Q49229
o-Xylene	BRL	µg/kg	6.7	1.5	1	8260B	04/06/10 18:25	erussell	Q49229
p-Isopropyltoluene	BRL	µg/kg	20	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
sec-Butylbenzene	BRL	µg/kg	20	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
Styrene	BRL	µg/kg	6.7	1.3	1	8260B	04/06/10 18:25	erussell	Q49229
tert-Butylbenzene	BRL	µg/kg	27	1.8	1	8260B	04/06/10 18:25	erussell	Q49229
Tetrachloroethene	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:25	erussell	Q49229
Toluene	BRL	µg/kg	6.7	1.6	1	8260B	04/06/10 18:25	erussell	Q49229
trans-1,2-Dichloroethene	BRL	µg/kg	6.7	1.3	1	8260B	04/06/10 18:25	erussell	Q49229
trans-1,3-Dichloropropene	BRL	µg/kg	6.7	1.3	1	8260B	04/06/10 18:25	erussell	Q49229
Trichloroethene	BRL	µg/kg	6.7	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
Trichlorofluoromethane	BRL	µg/kg	6.7	1.9	1	8260B	04/06/10 18:25	erussell	Q49229
Vinyl chloride	BRL	µg/kg	13	1.7	1	8260B	04/06/10 18:25	erussell	Q49229

Surrogate	% Recovery	Control Limits
Toluene-d8	103	81 - 128
Dibromofluoromethane	106	67 - 143
Bromofluorobenzene	97	77 - 128

Sample Weight Determination

Weight Bisulfate 1	5.86	g	1	5035	04/06/10	lbrown
Weight Bisulfate 2		g	1	5035	04/06/10	lbrown
Weight Methanol	5.04	g	1	5035	04/06/10	lbrown

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	520	57	1	8270C	04/08/10 3:02	cphilbrick	Q49259
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 Parcel 2
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 Sample Matrix: Soil
 Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dichlorobenzene	BRL	µg/kg	520	57	1	8270C	04/08/10 3:02	cphilbrick	Q49259
1,3-Dichlorobenzene	BRL	µg/kg	520	50	1	8270C	04/08/10 3:02	cphilbrick	Q49259
1,4-Dichlorobenzene	BRL	µg/kg	520	62	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,4,5-Trichlorophenol	BRL	µg/kg	520	61	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,4,6-Trichlorophenol	BRL	µg/kg	520	56	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,4-Dichlorophenol	BRL	µg/kg	520	34	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,4-Dimethylphenol	BRL	µg/kg	520	77	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,4-Dinitrophenol	BRL	µg/kg	520	150	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,4-Dinitrotoluene	BRL	µg/kg	520	68	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2,6-Dinitrotoluene	BRL	µg/kg	520	93	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2-Chloronaphthalene	BRL	µg/kg	520	65	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2-Chlorophenol	BRL	µg/kg	520	22	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2-Methylnaphthalene	BRL	µg/kg	520	58	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2-Methylphenol	BRL	µg/kg	520	42	1	8270C	04/08/10 3:02	cphilbrick	Q49259
2-Nitrophenol	BRL	µg/kg	520	73	1	8270C	04/08/10 3:02	cphilbrick	Q49259
3&4-Methylphenol	BRL	µg/kg	520	61	1	8270C	04/08/10 3:02	cphilbrick	Q49259
3,3'-Dichlorobenzidine	BRL	µg/kg	520	94	1	8270C	04/08/10 3:02	cphilbrick	Q49259
4,6-Dinitro-2-methylphenol	BRL	µg/kg	520	44	1	8270C	04/08/10 3:02	cphilbrick	Q49259
4-Bromophenylphenylether	BRL	µg/kg	520	65	1	8270C	04/08/10 3:02	cphilbrick	Q49259
4-Chloro-3-methylphenol	BRL	µg/kg	520	61	1	8270C	04/08/10 3:02	cphilbrick	Q49259
4-Chlorophenylphenylether	BRL	µg/kg	520	65	1	8270C	04/08/10 3:02	cphilbrick	Q49259
4-Nitrophenol	BRL	µg/kg	520	66	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Acenaphthene	BRL	µg/kg	520	70	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Acenaphthylene	BRL	µg/kg	520	49	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Anthracene	BRL	µg/kg	520	38	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Benzo(a)anthracene	BRL	µg/kg	520	58	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Benzo(a)pyrene	BRL	µg/kg	520	65	1	8270C	04/08/10 3:02	cphilbrick	Q49259

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 Sample Matrix: Soil

Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	µg/kg	520	110	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Benzo(g,h,i)perylene	BRL	µg/kg	520	66	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Benzo(k)fluoranthene	BRL	µg/kg	520	140	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Bis(2-chloroethoxy)methane	BRL	µg/kg	520	87	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Bis(2-chloroethyl)ether	BRL	µg/kg	520	64	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Bis(2-chloroisopropyl)ether	BRL	µg/kg	520	52	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	520	40	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Butylbenzylphthalate	BRL	µg/kg	520	64	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Chrysene	BRL	µg/kg	520	35	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Di-n-butylphthalate	BRL	µg/kg	520	83	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Di-n-octylphthalate	BRL	µg/kg	520	150	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Dibenzo(a,h)anthracene	BRL	µg/kg	520	48	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Dibenzofuran	BRL	µg/kg	520	63	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Diethylphthalate	BRL	µg/kg	520	130	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Dimethylphthalate	BRL	µg/kg	520	77	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Fluoranthene	BRL	µg/kg	520	92	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Fluorene	BRL	µg/kg	520	74	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Hexachlorobenzene	BRL	µg/kg	520	71	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Hexachlorobutadiene	BRL	µg/kg	520	51	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Hexachlorocyclopentadiene	BRL	µg/kg	520	77	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Hexachloroethane	BRL	µg/kg	520	21	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	520	49	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Isophorone	BRL	µg/kg	520	49	1	8270C	04/08/10 3:02	cphilbrick	Q49259
N-Nitrosodi-n-propylamine	BRL	µg/kg	520	30	1	8270C	04/08/10 3:02	cphilbrick	Q49259
N-Nitrosodiphenylamine	BRL	µg/kg	520	75	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Naphthalene	BRL	µg/kg	520	62	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Nitrobenzene	BRL	µg/kg	520	65	1	8270C	04/08/10 3:02	cphilbrick	Q49259

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

Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275467
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pentachlorophenol	BRL	µg/kg	520	79	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Phenanthrene	BRL	µg/kg	520	44	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Phenol	BRL	µg/kg	520	91	1	8270C	04/08/10 3:02	cphilbrick	Q49259
Pyrene	BRL	µg/kg	520	99	1	8270C	04/08/10 3:02	cphilbrick	Q49259

Sample Preparation: 29.96 g / 1 mL 3550B 04/06/10 13:30 aguptill P27199

Surrogate	% Recovery	Control Limits
Terphenyl-d14	88	41 - 136
Phenol-d5	53	13 - 95
Nitrobenzene-d5	54	14 - 103
2-Fluorophenol	56	14 - 89
2-Fluorobiphenyl	52	21 - 108
2,4,6-Tribromophenol	59	25 - 123

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 7.8 1.8 1 8015B 04/08/10 21:01 jvogel Q49287

Sample Preparation: 25.07 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	62	49 - 124

Sample Weight Determination

Weight 1 5.02 g 1 GRO 04/06/10 0:00 lbrown
 Weight 2 5.62 g 1 GRO 04/06/10 0:00 lbrown

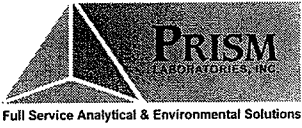
Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO) BRL mg/kg 7.8 4.9 50 8015B 04/08/10 22:47 heasler Q49295

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275467
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil

Client Sample ID: P2-12-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 13:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
							Surrogate	% Recovery	Control Limits
							aaa-TFT	127	55 - 129

Mercury by CVAA

Mercury	0.033	mg/kg	0.031	0.0021	1	7471A	04/09/10 16:09	kpowers	Q49336
Sample Preparation:				0.6 g /	30 mL	7471A	04/09/10 8:20	kpowers	P27230

Metals by ICP

Arsenic	2.7	mg/kg	0.78	0.089	1	6010B	04/09/10 1:43	pfitzgerald	Q49277
Barium	32	mg/kg	3.9	0.58	5	6010B	04/14/10 1:48	dsullivan	Q49277
Cadmium	1.2	mg/kg	0.39	0.042	1	6010B	04/09/10 1:43	pfitzgerald	Q49277
Chromium	11	mg/kg	0.39	0.054	1	6010B	04/09/10 1:43	pfitzgerald	Q49277
Lead	37	mg/kg	2.0	0.48	5	6010B	04/14/10 1:48	dsullivan	Q49277
Selenium	4.2	mg/kg	3.9	0.79	5	6010B	04/14/10 1:48	dsullivan	Q49277
Silver	BRL	mg/kg	0.39	0.040	1	6010B	04/09/10 1:43	pfitzgerald	Q49277
Sample Preparation:				2.03 g /	50 mL	3050B	04/07/10 9:15	jbrayton	P27212

Sample Comment(s):

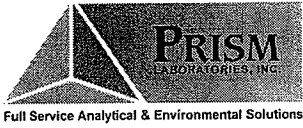
BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275468
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: M-1-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 14:30
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	69.6	%			1	SM2540 G	04/05/10 13:30	jbrayton	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	10	1.6	1	8015B	04/08/10 21:36	jvogel	Q49287
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Sample Preparation: 25.11 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	71	49 - 124

Sample Weight Determination

Weight 1	5.98	g			1	GRO	04/06/10 0:00	lbrown	
Weight 2	6.37	g			1	GRO	04/06/10 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	7.2	4.5	50	8015B	04/08/10 23:18	heasler	Q49295
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Surrogate recovery was outside the control limits. No target compounds were detected in this sample that were associated with this surrogate. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	131 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275469
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: M-2-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 14:50
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	72.8	%			1	SM2540 G	04/05/10 13:30	jbrayton	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.6	1.5	1	8015B	04/08/10 22:12	jvogel	Q49287
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Sample Preparation: 25.13 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	65	49 - 124

Sample Weight Determination

Weight 1	6.32	g			1	GRO	04/06/10 0:00	lbrown	
Weight 2	6.41	g			1	GRO	04/06/10 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	4.3	50	8015B	04/08/10 23:50	heasler	Q49295
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Surrogate	% Recovery	Control Limits
aaa-TFT	115	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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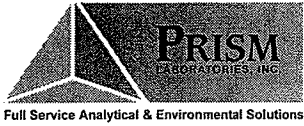
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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275470
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: M-3-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 15:15
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	75.1	%			1	SM2540 G	04/05/10 13:30	jbrayton	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.3	1.5	1	8015B	04/09/10 5:20	jvogel	Q49287
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Sample Preparation: 25 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	69	49 - 124

Sample Weight Determination

Weight 1	7.16	g			1	GRO	04/06/10 0:00	lbrown	
Weight 2	6.79	g			1	GRO	04/06/10 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	4.2	50	8015B	04/09/10 0:21	heasler	Q49295
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Surrogate	% Recovery	Control Limits
aaa-TFT	115	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
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 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA- Prism Sample ID: 275471
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: M-4-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 15:30
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	82.4	%			1	SM2540 G	04/05/10 13:30	jbrayton	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	04/08/10 22:48	jvogel	Q49287
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Sample Preparation: 25.04 g / 1 mL 3545 04/07/10 17:00 athao P27216

Surrogate	% Recovery	Control Limits
o-Terphenyl	63	49 - 124

Sample Weight Determination

Weight 1	6.69	g			1	GRO	04/06/10 0:00	lbrown	
Weight 2	6.63	g			1	GRO	04/06/10 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	04/09/10 0:52	heasler	Q49295
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Surrogate recovery was outside the control limits. No target compounds were detected in this sample that were associated with this surrogate. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	137 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

04/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Prism Sample ID: 275472
 Parcel 2
 Project No.: WBS# 34871.2.1
 Sample Matrix: Soil
 Client Sample ID: M-5-6-8
 COC Group: G0410028
 Time Collected: 03/30/10 15:50
 Time Submitted: 03/31/10 14:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	86.7	%			1	SM2540 G	04/05/10 13:30	jbrayton	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.1	1.3	1	8015B	04/09/10 18:42	jvogel	Q49322
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Sample Preparation: 25.02 g / 1 mL 3545 04/08/10 17:00 athao P27223

Surrogate	% Recovery	Control Limits
o-Terphenyl	62	49 - 124

Sample Weight Determination

Weight 1	6.46	g			1	GRO	04/06/10 0:00	lbrown	
Weight 2	6.34	g			1	GRO	04/06/10 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/09/10 1:24	heasler	Q49295
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Surrogate recovery was outside the control limits. No target compounds were detected in this sample that were associated with this surrogate. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	136 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	5	<2.5	µg/kg	Q49229
1,1,1-Trichloroethane	ND	5	<2.5	µg/kg	Q49229
1,1,2,2-Tetrachloroethane	ND	5	<2.5	µg/kg	Q49229
1,1,2-Trichloroethane	ND	5	<2.5	µg/kg	Q49229
1,1-Dichloroethane	ND	5	<2.5	µg/kg	Q49229
1,1-Dichloroethene	ND	5	<2.5	µg/kg	Q49229
1,1-Dichloropropene	ND	5	<2.5	µg/kg	Q49229
1,2,3-Trichlorobenzene	ND	10	<5	µg/kg	Q49229
1,2,3-Trichloropropane	ND	5	<2.5	µg/kg	Q49229
1,2,4-Trichlorobenzene	ND	10	<5	µg/kg	Q49229
1,2,4-Trimethylbenzene	ND	10	<5	µg/kg	Q49229
1,2-Dibromo-3-chloropropane	ND	5	<2.5	µg/kg	Q49229
1,2-Dibromoethane (EDB)	ND	5	<2.5	µg/kg	Q49229
1,2-Dichlorobenzene	ND	10	<5	µg/kg	Q49229
1,2-Dichloroethane	ND	5	<2.5	µg/kg	Q49229
1,2-Dichloropropane	ND	5	<2.5	µg/kg	Q49229
1,3,5-Trimethylbenzene	ND	10	<5	µg/kg	Q49229
1,3-Dichlorobenzene	ND	10	<5	µg/kg	Q49229
1,3-Dichloropropane	ND	5	<2.5	µg/kg	Q49229
1,4-Dichlorobenzene	ND	10	<5	µg/kg	Q49229
2,2-Dichloropropane	ND	5	<2.5	µg/kg	Q49229
2-Chloroethyl vinyl ether	ND	10	<5	µg/kg	Q49229
2-Chlorotoluene	ND	10	<5	µg/kg	Q49229
2-Hexanone	ND	50	<25	µg/kg	Q49229
4-Chlorotoluene	ND	10	<5	µg/kg	Q49229
4-Methyl-2-pentanone (MIBK)	ND	10	<5	µg/kg	Q49229
Acetone	ND	20	<10	µg/kg	Q49229
Benzene	ND	3	<1.5	µg/kg	Q49229
Bromobenzene	ND	5	<2.5	µg/kg	Q49229
Bromochloromethane	ND	5	<2.5	µg/kg	Q49229
Bromodichloromethane	ND	5	<2.5	µg/kg	Q49229
Bromoform	ND	5	<2.5	µg/kg	Q49229
Bromomethane	ND	10	<5	µg/kg	Q49229
Carbon disulfide	ND	10	<5	µg/kg	Q49229

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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Carbon tetrachloride	ND	5	<2.5	µg/kg	Q49229
Chlorobenzene	ND	5	<2.5	µg/kg	Q49229
Chlorodibromomethane	ND	5	<2.5	µg/kg	Q49229
Chloroethane	ND	10	<5	µg/kg	Q49229
Chloroform	ND	5	<2.5	µg/kg	Q49229
Chloromethane	ND	10	<5	µg/kg	Q49229
cis-1,2-Dichloroethene	ND	5	<2.5	µg/kg	Q49229
cis-1,3-Dichloropropene	ND	5	<2.5	µg/kg	Q49229
Dibromomethane	ND	5	<2.5	µg/kg	Q49229
Dichlorodifluoromethane	ND	10	<5	µg/kg	Q49229
Ethylbenzene	ND	5	<2.5	µg/kg	Q49229
Hexachlorobutadiene	ND	15	<7.5	µg/kg	Q49229
Isopropyl ether (IPE)	ND	5	<2.5	µg/kg	Q49229
Isopropylbenzene	ND	10	<5	µg/kg	Q49229
m,p-Xylenes	ND	10	<5	µg/kg	Q49229
Methyl ethyl ketone (MEK)	ND	20	<10	µg/kg	Q49229
Methyl t-butyl ether (MTBE)	ND	5	<2.5	µg/kg	Q49229
Methylene chloride	ND	10	<5	µg/kg	Q49229
n-Butylbenzene	ND	15	<7.5	µg/kg	Q49229
n-Propylbenzene	ND	10	<5	µg/kg	Q49229
Naphthalene	ND	5	<2.5	µg/kg	Q49229
o-Xylene	ND	5	<2.5	µg/kg	Q49229
p-Isopropyltoluene	ND	15	<7.5	µg/kg	Q49229
sec-Butylbenzene	ND	15	<7.5	µg/kg	Q49229
Styrene	ND	5	<2.5	µg/kg	Q49229
tert-Butylbenzene	ND	20	<10	µg/kg	Q49229
Tetrachloroethene	ND	10	<5	µg/kg	Q49229
Toluene	ND	5	<2.5	µg/kg	Q49229
trans-1,2-Dichloroethene	ND	5	<2.5	µg/kg	Q49229
trans-1,3-Dichloropropene	ND	5	<2.5	µg/kg	Q49229
Trichloroethene	ND	5	<2.5	µg/kg	Q49229
Trichlorofluoromethane	ND	5	<2.5	µg/kg	Q49229
Vinyl chloride	ND	10	<5	µg/kg	Q49229

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	42.43	50	µg/kg	85	70-154	Q49229

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

Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Benzene	43.8	50	µg/kg	88	77-128	Q49229
Chlorobenzene	39.71	50	µg/kg	79	78-119	Q49229
Toluene	42.87	50	µg/kg	86	76-131	Q49229
Trichloroethene	44.58	50	µg/kg	89	77-133	Q49229

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID: 275463 1,1-Dichloroethene	45.46	50	µg/kg	91	65-162	Q49229
Benzene	45.81	50	µg/kg	92	73-131	Q49229
Chlorobenzene	40.9	50	µg/kg	82	76-119	Q49229
Toluene	44.51	50	µg/kg	89	72-135	Q49229
Trichloroethene	47.06	50	µg/kg	94	72-133	Q49229

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 275463 1,1-Dichloroethene	44.18	50	µg/kg	88	65-162	3	0 - 20	Q49229
Benzene	44.56	50	µg/kg	89	73-131	3	0 - 17	Q49229
Chlorobenzene	40.67	50	µg/kg	81	76-119	1	0 - 20	Q49229
Toluene	43.09	50	µg/kg	86	72-135	3	0 - 18	Q49229
Trichloroethene	45.52	50	µg/kg	91	72-133	3	0 - 17	Q49229

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NC Certification No. 402
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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Project No.: Parcel 2
 WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	330	<165	µg/kg	Q49259
1,2-Dichlorobenzene	ND	330	<165	µg/kg	Q49259
1,3-Dichlorobenzene	ND	330	<165	µg/kg	Q49259
1,4-Dichlorobenzene	ND	330	<165	µg/kg	Q49259
2,4,5-Trichlorophenol	ND	330	<165	µg/kg	Q49259
2,4,6-Trichlorophenol	ND	330	<165	µg/kg	Q49259
2,4-Dichlorophenol	ND	330	<165	µg/kg	Q49259
2,4-Dimethylphenol	ND	330	<165	µg/kg	Q49259
2,4-Dinitrophenol	ND	330	<165	µg/kg	Q49259
2,4-Dinitrotoluene	ND	330	<165	µg/kg	Q49259
2,6-Dinitrotoluene	ND	330	<165	µg/kg	Q49259
2-Chloronaphthalene	ND	330	<165	µg/kg	Q49259
2-Chlorophenol	ND	330	<165	µg/kg	Q49259
2-Methylnaphthalene	ND	330	<165	µg/kg	Q49259
2-Methylphenol	ND	330	<165	µg/kg	Q49259
2-Nitrophenol	ND	330	<165	µg/kg	Q49259
3&4-Methylphenol	ND	330	<165	µg/kg	Q49259
3,3'-Dichlorobenzidine	ND	330	<165	µg/kg	Q49259
4,6-Dinitro-2-methylphenol	ND	330	<165	µg/kg	Q49259
4-Bromophenylphenylether	ND	330	<165	µg/kg	Q49259
4-Chloro-3-methylphenol	ND	330	<165	µg/kg	Q49259
4-Chlorophenylphenylether	ND	330	<165	µg/kg	Q49259
4-Nitrophenol	ND	330	<165	µg/kg	Q49259
Acenaphthene	ND	330	<165	µg/kg	Q49259
Acenaphthylene	ND	330	<165	µg/kg	Q49259
Anthracene	ND	330	<165	µg/kg	Q49259
Benzo(a)anthracene	ND	330	<165	µg/kg	Q49259
Benzo(a)pyrene	ND	330	<165	µg/kg	Q49259
Benzo(b)fluoranthene	ND	330	<165	µg/kg	Q49259
Benzo(g,h,i)perylene	ND	330	<165	µg/kg	Q49259
Benzo(k)fluoranthene	ND	330	<165	µg/kg	Q49259
Bis(2-chloroethoxy)methane	ND	330	<165	µg/kg	Q49259
Bis(2-chloroethyl)ether	ND	330	<165	µg/kg	Q49259
Bis(2-chloroisopropyl)ether	ND	330	<165	µg/kg	Q49259

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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Bis(2-ethylhexyl)phthalate	ND	330	<165	µg/kg	Q49259
Butylbenzylphthalate	ND	330	<165	µg/kg	Q49259
Chrysene	ND	330	<165	µg/kg	Q49259
Di-n-butylphthalate	ND	330	<165	µg/kg	Q49259
Di-n-octylphthalate	ND	330	<165	µg/kg	Q49259
Dibenzo(a,h)anthracene	ND	330	<165	µg/kg	Q49259
Dibenzofuran	ND	330	<165	µg/kg	Q49259
Diethylphthalate	ND	330	<165	µg/kg	Q49259
Dimethylphthalate	ND	330	<165	µg/kg	Q49259
Fluoranthene	ND	330	<165	µg/kg	Q49259
Fluorene	ND	330	<165	µg/kg	Q49259
Hexachlorobenzene	ND	330	<165	µg/kg	Q49259
Hexachlorobutadiene	ND	330	<165	µg/kg	Q49259
Hexachlorocyclopentadiene	ND	330	<165	µg/kg	Q49259
Hexachloroethane	ND	330	<165	µg/kg	Q49259
Indeno(1,2,3-cd)pyrene	ND	330	<165	µg/kg	Q49259
Isophorone	ND	330	<165	µg/kg	Q49259
N-Nitrosodi-n-propylamine	ND	330	<165	µg/kg	Q49259
N-Nitrosodiphenylamine	ND	330	<165	µg/kg	Q49259
Naphthalene	ND	330	<165	µg/kg	Q49259
Nitrobenzene	ND	330	<165	µg/kg	Q49259
Pentachlorophenol	ND	330	<165	µg/kg	Q49259
Phenanthrene	ND	330	<165	µg/kg	Q49259
Phenol	ND	330	<165	µg/kg	Q49259
Pyrene	ND	330	<165	µg/kg	Q49259

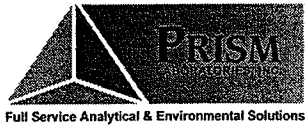
Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	781.496	1640.7	µg/kg	48	39-98	Q49259
1,2-Dichlorobenzene	760.498	1640.7	µg/kg	46	36-96	Q49259
1,3-Dichlorobenzene	751.968	1640.7	µg/kg	46	37-94	Q49259
1,4-Dichlorobenzene	652.230	1640.7	µg/kg	40	37-95	Q49259
2,4,5-Trichlorophenol	1025.59	1640.7	µg/kg	63	45-117	Q49259
2,4,6-Trichlorophenol	968.503	1640.7	µg/kg	59	45-112	Q49259
2,4-Dichlorophenol	836.614	1640.7	µg/kg	51	40-104	Q49259
2,4-Dimethylphenol	869.750	1640.7	µg/kg	53	39-103	Q49259
2,4-Dinitrophenol	706.364	1640.7	µg/kg	43	25-138	Q49259

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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Project No.: Parcel 2
 WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
2,4-Dinitrotoluene	1178.80	1640.7	µg/kg	72	56-128	Q49259
2,6-Dinitrotoluene	1258.85	1640.7	µg/kg	77	52-124	Q49259
2-Chloronaphthalene	877.952	1640.7	µg/kg	54	40-108	Q49259
2-Chlorophenol	812.007	1640.7	µg/kg	49	37-98	Q49259
2-Methylnaphthalene	872.703	1640.7	µg/kg	53	35-113	Q49259
2-Methylphenol	873.687	1640.7	µg/kg	53	38-101	Q49259
2-Nitrophenol	855.643	1640.7	µg/kg	52	38-103	Q49259
3&4-Methylphenol	888.451	1640.7	µg/kg	54	35-106	Q49259
3,3'-Dichlorobenzidine	1581.03	1640.7	µg/kg	96	45-135	Q49259
4,6-Dinitro-2-methylphenol	1059.38	1640.7	µg/kg	65	54-131	Q49259
4-Bromophenylphenylether	1265.09	1640.7	µg/kg	77	54-116	Q49259
4-Chloro-3-methylphenol	1011.81	1640.7	µg/kg	62	45-111	Q49259
4-Chlorophenylphenylether	1167.97	1640.7	µg/kg	71	50-113	Q49259
4-Nitrophenol	1278.87	1640.7	µg/kg	78	20-157	Q49259
Acenaphthene	1019.02	1640.7	µg/kg	62	44-110	Q49259
Acenaphthylene	1034.12	1640.7	µg/kg	63	43-114	Q49259
Anthracene	1345.47	1640.7	µg/kg	82	59-120	Q49259
Benzo(a)anthracene	1319.55	1640.7	µg/kg	80	46-125	Q49259
Benzo(a)pyrene	1426.18	1640.7	µg/kg	87	60-124	Q49259
Benzo(b)fluoranthene	1331.69	1640.7	µg/kg	81	55-125	Q49259
Benzo(g,h,i)perylene	962.598	1640.7	µg/kg	59	41-133	Q49259
Benzo(k)fluoranthene	1203.08	1640.7	µg/kg	73	58-124	Q49259
Bis(2-chloroethoxy)methane	897.965	1640.7	µg/kg	55	36-103	Q49259
Bis(2-chloroethyl)ether	771.981	1640.7	µg/kg	47	33-97	Q49259
Bis(2-chloroisopropyl)ether	871.062	1640.7	µg/kg	53	34-98	Q49259
Bis(2-ethylhexyl)phthalate	1570.53	1640.7	µg/kg	96	58-129	Q49259
Butylbenzylphthalate	1552.49	1640.7	µg/kg	95	59-128	Q49259
Chrysene	1358.59	1640.7	µg/kg	83	44-128	Q49259
Di-n-butylphthalate	1443.56	1640.7	µg/kg	88	56-121	Q49259
Di-n-octylphthalate	1472.11	1640.7	µg/kg	90	59-125	Q49259
Dibenzo(a,h)anthracene	974.081	1640.7	µg/kg	59	46-129	Q49259
Dibenzofuran	1077.42	1640.7	µg/kg	66	47-112	Q49259
Diethylphthalate	1370.73	1640.7	µg/kg	84	55-118	Q49259
Dimethylphthalate	1286.74	1640.7	µg/kg	78	55-114	Q49259
Fluoranthene	1317.25	1640.7	µg/kg	80	57-120	Q49259
Fluorene	1175.19	1640.7	µg/kg	72	52-113	Q49259

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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Hexachlorobenzene	1221.12	1640.7	µg/kg	74	56-117	Q49259
Hexachlorobutadiene	718.503	1640.7	µg/kg	44	36-100	Q49259
Hexachlorocyclopentadiene	563.976	1640.7	µg/kg	34	33-120	Q49259
Hexachloroethane	757.545	1640.7	µg/kg	46	33-97	Q49259
Indeno(1,2,3-cd)pyrene	1450.45	1640.7	µg/kg	88	44-133	Q49259
Isophorone	979.330	1640.7	µg/kg	60	35-111	Q49259
N-Nitrosodi-n-propylamine	882.874	1640.7	µg/kg	54	38-101	Q49259
N-Nitrosodiphenylamine	1334.64	1640.7	µg/kg	81	60-117	Q49259
Naphthalene	869.422	1640.7	µg/kg	53	36-104	Q49259
Nitrobenzene	870.734	1640.7	µg/kg	53	36-100	Q49259
Pentachlorophenol	1107.61	1640.7	µg/kg	68	53-127	Q49259
Phenanthrene	1303.47	1640.7	µg/kg	79	58-117	Q49259
Phenol	847.769	1640.7	µg/kg	52	34-102	Q49259
Pyrene	1408.13	1640.7	µg/kg	86	54-131	Q49259

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
275466 1,2,4-Trichlorobenzene	937	1667	µg/kg	56	26-97	Q49259
1,2-Dichlorobenzene	949	1667	µg/kg	57	24-93	Q49259
1,3-Dichlorobenzene	944.666	1667	µg/kg	57	23-92	Q49259
1,4-Dichlorobenzene	819.333	1667	µg/kg	49	23-92	Q49259
2,4,5-Trichlorophenol	1257.66	1667	µg/kg	75	33-118	Q49259
2,4,6-Trichlorophenol	1197.33	1667	µg/kg	72	32-113	Q49259
2,4-Dichlorophenol	1007.33	1667	µg/kg	60	28-103	Q49259
2,4-Dimethylphenol	979	1667	µg/kg	59	26-103	Q49259
2,4-Dinitrophenol	547.333	1667	µg/kg	33	24-146	Q49259
2,4-Dinitrotoluene	1390.33	1667	µg/kg	83	45-127	Q49259
2,6-Dinitrotoluene	1428	1667	µg/kg	86	40-121	Q49259
2-Chloronaphthalene	1088.66	1667	µg/kg	65	30-106	Q49259
2-Chlorophenol	1003	1667	µg/kg	60	25-94	Q49259
2-Methylnaphthalene	1053.33	1667	µg/kg	63	22-114	Q49259
2-Methylphenol	1059	1667	µg/kg	64	25-98	Q49259
2-Nitrophenol	989.666	1667	µg/kg	59	25-102	Q49259
3&4-Methylphenol	1070.33	1667	µg/kg	64	25-102	Q49259
3,3'-Dichlorobenzidine	1781.66	1667	µg/kg	107	45-135	Q49259
4,6-Dinitro-2-methylphenol	889	1667	µg/kg	53	42-139	Q49259
4-Bromophenylphenylether	1466.66	1667	µg/kg	88	42-115	Q49259

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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Project No.: Parcel 2
 WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
275466 4-Chloro-3-methylphenol	1278	1667	µg/kg	77	31-113	Q49259
4-Chlorophenylphenylether	1390.33	1667	µg/kg	83	36-112	Q49259
4-Nitrophenol	1449.33	1667	µg/kg	87	17-150	Q49259
Acenaphthene	1254.66	1667	µg/kg	75	36-107	Q49259
Acenaphthylene	1280.66	1667	µg/kg	77	33-110	Q49259
Anthracene	1480.33	1667	µg/kg	89	48-120	Q49259
Benzo(a)anthracene	1474.66	1667	µg/kg	88	31-128	Q49259
Benzo(a)pyrene	1578.33	1667	µg/kg	95	50-123	Q49259
Benzo(b)fluoranthene	1726.33	1667	µg/kg	104	45-125	Q49259
Benzo(g,h,i)perylene	800.666	1667	µg/kg	48	38-124	Q49259
Benzo(k)fluoranthene	1793.33	1667	µg/kg	108	48-121	Q49259
Bis(2-chloroethoxy)methane	1097	1667	µg/kg	66	25-100	Q49259
Bis(2-chloroethyl)ether	949.333	1667	µg/kg	57	17-101	Q49259
Bis(2-chloroisopropyl)ether	1133.66	1667	µg/kg	68	20-96	Q49259
Bis(2-ethylhexyl)phthalate	1832.33	1667	µg/kg	110	48-131	Q49259
Butylbenzylphthalate	1788.66	1667	µg/kg	107	46-133	Q49259
Chrysene	1485.33	1667	µg/kg	89	29-129	Q49259
Di-n-butylphthalate	1626.66	1667	µg/kg	98	45-123	Q49259
Di-n-octylphthalate	2519	1667	µg/kg	151 #	43-132	Q49259
Dibenzo(a,h)anthracene	947	1667	µg/kg	57	34-130	Q49259
Dibenzofuran	1325	1667	µg/kg	79	34-114	Q49259
Diethylphthalate	1522.66	1667	µg/kg	91	39-121	Q49259
Dimethylphthalate	1457	1667	µg/kg	87	41-114	Q49259
Fluoranthene	1437.66	1667	µg/kg	86	47-121	Q49259
Fluorene	1389.66	1667	µg/kg	83	38-117	Q49259
Hexachlorobenzene	1366.33	1667	µg/kg	82	44-119	Q49259
Hexachlorobutadiene	867	1667	µg/kg	52	25-96	Q49259
Hexachlorocyclopentadiene	538.666	1667	µg/kg	32	21-116	Q49259
Hexachloroethane	954.333	1667	µg/kg	57	22-92	Q49259
Indeno(1,2,3-cd)pyrene	1355	1667	µg/kg	81	34-131	Q49259
Isophorone	1231.66	1667	µg/kg	74	25-108	Q49259
N-Nitrosodi-n-propylamine	1128	1667	µg/kg	68	22-105	Q49259
N-Nitrosodiphenylamine	1516	1667	µg/kg	91	43-127	Q49259
Naphthalene	1030.33	1667	µg/kg	62	25-101	Q49259
Nitrobenzene	1053.33	1667	µg/kg	63	23-100	Q49259
Pentachlorophenol	1198.33	1667	µg/kg	72	39-137	Q49259

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

Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn: Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Project No.: Parcel 2
 WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
275466 Phenanthrene	1473	1667	µg/kg	88	47-121	Q49259
Phenol	1009.66	1667	µg/kg	61	23-97	Q49259
Pyrene	1496.33	1667	µg/kg	90	45-133	Q49259

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
275466 1,2,4-Trichlorobenzene	926.578	1661.4	µg/kg	56	26-97	1	0 - 37	Q49259
1,2-Dichlorobenzene	939.202	1661.4	µg/kg	57	24-93	1	0 - 35	Q49259
1,3-Dichlorobenzene	934.551	1661.4	µg/kg	56	23-92	1	0 - 36	Q49259
1,4-Dichlorobenzene	929.900	1661.4	µg/kg	56	23-92	13	0 - 36	Q49259
2,4,5-Trichlorophenol	1219.26	1661.4	µg/kg	73	33-118	3	0 - 28	Q49259
2,4,6-Trichlorophenol	1126.24	1661.4	µg/kg	68	32-113	6	0 - 34	Q49259
2,4-Dichlorophenol	1005.64	1661.4	µg/kg	61	28-103	0	0 - 36	Q49259
2,4-Dimethylphenol	974.086	1661.4	µg/kg	59	26-103	1	0 - 35	Q49259
2,4-Dinitrophenol	610.631	1661.4	µg/kg	37	24-146	11	0 - 33	Q49259
2,4-Dinitrotoluene	1330.56	1661.4	µg/kg	80	45-127	4	0 - 29	Q49259
2,6-Dinitrotoluene	1392.02	1661.4	µg/kg	84	40-121	3	0 - 30	Q49259
2-Chloronaphthalene	1034.21	1661.4	µg/kg	62	30-106	5	0 - 38	Q49259
2-Chlorophenol	988.704	1661.4	µg/kg	60	25-94	1	0 - 37	Q49259
2-Methylnaphthalene	1021.26	1661.4	µg/kg	61	22-114	3	0 - 40	Q49259
2-Methylphenol	1037.87	1661.4	µg/kg	62	25-98	2	0 - 36	Q49259
2-Nitrophenol	972.425	1661.4	µg/kg	59	25-102	2	0 - 39	Q49259
3&4-Methylphenol	1055.48	1661.4	µg/kg	64	25-102	1	0 - 39	Q49259
3,3'-Dichlorobenzidine	1683.38	1661.4	µg/kg	101	45-135	6	0 - 60	Q49259
4,6-Dinitro-2-methylphenol	909.966	1661.4	µg/kg	55	42-139	2	0 - 28	Q49259
4-Bromophenylphenylether	1431.89	1661.4	µg/kg	86	42-115	2	0 - 23	Q49259
4-Chloro-3-methylphenol	1195.68	1661.4	µg/kg	72	31-113	7	0 - 32	Q49259
4-Chlorophenylphenylether	1307.97	1661.4	µg/kg	79	36-112	6	0 - 32	Q49259
4-Nitrophenol	1461.12	1661.4	µg/kg	88	17-150	1	0 - 32	Q49259
Acenaphthene	1179.73	1661.4	µg/kg	71	36-107	6	0 - 32	Q49259
Acenaphthylene	1181.06	1661.4	µg/kg	71	33-110	8	0 - 32	Q49259
Anthracene	1459.80	1661.4	µg/kg	88	48-120	1	0 - 25	Q49259
Benzo(a)anthracene	1452.15	1661.4	µg/kg	87	31-128	2	0 - 31	Q49259
Benzo(a)pyrene	1540.19	1661.4	µg/kg	93	50-123	2	0 - 23	Q49259
Benzo(b)fluoranthene	1711.29	1661.4	µg/kg	103	45-125	1	0 - 25	Q49259
Benzo(g,h,i)perylene	807.308	1661.4	µg/kg	49	38-124	1	0 - 25	Q49259
Benzo(k)fluoranthene	1777.74	1661.4	µg/kg	107	48-121	1	0 - 27	Q49259

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

Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Project No.: Parcel 2
 WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
275466 Bis(2-chloroethoxy)methane	1092.35	1661.4	µg/kg	66	25-100	0	0 - 38	Q49259
Bis(2-chloroethyl)ether	938.205	1661.4	µg/kg	56	17-101	1	0 - 38	Q49259
Bis(2-chloroisopropyl)ether	1104.65	1661.4	µg/kg	66	20-96	3	0 - 36	Q49259
Bis(2-ethylhexyl)phthalate	1821.26	1661.4	µg/kg	110	48-131	1	0 - 23	Q49259
Butylbenzylphthalate	1775.41	1661.4	µg/kg	107	46-133	1	0 - 25	Q49259
Chrysene	1468.43	1661.4	µg/kg	88	29-129	1	0 - 32	Q49259
Di-n-butylphthalate	1620.93	1661.4	µg/kg	98	45-123	0	0 - 24	Q49259
Di-n-octylphthalate	2530.89	1661.4	µg/kg	152 #	43-132	0	0 - 24	Q49259
Dibenzo(a,h)anthracene	973.421	1661.4	µg/kg	59	34-130	3	0 - 25	Q49259
Dibenzofuran	1228.23	1661.4	µg/kg	74	34-114	8	0 - 30	Q49259
Diethylphthalate	1509.30	1661.4	µg/kg	91	39-121	1	0 - 23	Q49259
Dimethylphthalate	1404.98	1661.4	µg/kg	85	41-114	4	0 - 27	Q49259
Fluoranthene	1431.22	1661.4	µg/kg	86	47-121	0	0 - 23	Q49259
Fluorene	1340.86	1661.4	µg/kg	81	38-117	4	0 - 30	Q49259
Hexachlorobenzene	1341.52	1661.4	µg/kg	81	44-119	2	0 - 24	Q49259
Hexachlorobutadiene	873.089	1661.4	µg/kg	53	25-96	1	0 - 34	Q49259
Hexachlorocyclopentadiene	545.514	1661.4	µg/kg	33	21-116	1	0 - 39	Q49259
Hexachloroethane	922.923	1661.4	µg/kg	56	22-92	3	0 - 36	Q49259
Indeno(1,2,3-cd)pyrene	1378.73	1661.4	µg/kg	83	34-131	2	0 - 28	Q49259
Isophorone	1138.20	1661.4	µg/kg	69	25-108	8	0 - 38	Q49259
N-Nitrosodi-n-propylamine	1089.03	1661.4	µg/kg	66	22-105	4	0 - 37	Q49259
N-Nitrosodiphenylamine	1463.45	1661.4	µg/kg	88	43-127	4	0 - 24	Q49259
Naphthalene	1024.91	1661.4	µg/kg	62	25-101	1	0 - 38	Q49259
Nitrobenzene	1035.54	1661.4	µg/kg	62	23-100	2	0 - 37	Q49259
Pentachlorophenol	1195.34	1661.4	µg/kg	72	39-137	0	0 - 27	Q49259
Phenanthrene	1464.11	1661.4	µg/kg	88	47-121	1	0 - 23	Q49259
Phenol	1016.94	1661.4	µg/kg	61	23-97	1	0 - 42	Q49259
Pyrene	1464.11	1661.4	µg/kg	88	45-133	2	0 - 27	Q49259

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

Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-
 Project No.: Parcel 2
 WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Arsenic	-0.01	0.5	<0.25	mg/kg	Q49277
Barium	1.4049 #	0.5	<0.25	mg/kg	Q49277
Cadmium	0.0005	0.25	<0.125	mg/kg	Q49277
Chromium	0.0596	0.25	<0.125	mg/kg	Q49277
Lead	0.07	0.25	<0.125	mg/kg	Q49277
Selenium	0.074	0.5	<0.25	mg/kg	Q49277
Silver	-0.0021	0.25	<0.125	mg/kg	Q49277

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	24.1306	25	mg/kg	97	80-120	Q49277
Barium	25.434	25	mg/kg	102	80-120	Q49277
Cadmium	24.1839	25	mg/kg	97	80-120	Q49277
Chromium	24.8344	25	mg/kg	99	80-120	Q49277
Lead	24.0297	25	mg/kg	96	80-120	Q49277
Selenium	23.7693	25	mg/kg	95	80-120	Q49277
Silver	23.9171	25	mg/kg	96	80-120	Q49277

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Arsenic	275456	23.097	24.875	mg/kg	77	75-125	Q49277
Barium		156	25	mg/kg	76	75-125	Q49277
Cadmium		20.2282	24.875	mg/kg	72 #	75-125	Q49277
Chromium		41.2579	24.875	mg/kg	59 #	75-125	Q49277
Lead		471	25	mg/kg	32 #	75-125	Q49277
Selenium		25.2	25	mg/kg	97	75-125	Q49277
Silver		20.799	24.875	mg/kg	87	75-125	Q49277

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Arsenic	275456	23.2116	24.630	mg/kg	79	75-125	0	0 - 20	Q49277
Barium		161	25	mg/kg	96	75-125	3	0 - 20	Q49277
Cadmium		19.9773	24.630	mg/kg	71 #	75-125	1	0 - 20	Q49277
Chromium		43.2972	24.630	mg/kg	68 #	75-125	5	0 - 20	Q49277
Lead		438	25	mg/kg	-100 #	75-125	7	0 - 20	Q49277
Selenium		25	25	mg/kg	96	75-125	1	0 - 20	Q49277
Silver		20.598	24.630	mg/kg	87	75-125	1	0 - 20	Q49277

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

Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank							QC Batch ID	
	Result	RL	Control Limit	Units				
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg			Q49287	
Laboratory Control Sample							QC Batch ID	
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	57.3	80	mg/kg	72	55-109		Q49287	
Matrix Spike							QC Batch ID	
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			
275461 Diesel Range Organics (DRO)	60.4	80	mg/kg	76	50-117		Q49287	
Matrix Spike Duplicate							QC Batch ID	
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
275461 Diesel Range Organics (DRO)	55.8	80	mg/kg	70	50-117	8	0 - 24	Q49287

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank							QC Batch ID	
	Result	RL	Control Limit	Units				
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg			Q49290	
Laboratory Control Sample							QC Batch ID	
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	51.10	50	mg/kg	102	67-116		Q49290	
Matrix Spike							QC Batch ID	
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %			
275480 Gasoline Range Organics (GRO)	45.75	50	mg/kg	92	57-113		Q49290	
Matrix Spike Duplicate							QC Batch ID	
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
275480 Gasoline Range Organics (GRO)	45.20	50	mg/kg	90	57-113	1	0 - 23	Q49290

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Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Gasoline Range Organics (GRO) by GC-FID, method 8015B

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	

Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q49295
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Laboratory Control Sample					Recovery %	Recovery Ranges %	QC Batch ID
	Result	Spike Amount	Units				

Gasoline Range Organics (GRO)	50.20	50	mg/kg	100	67-116	Q49295
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Matrix Spike					Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units				

275461 Gasoline Range Organics (GRO)	41.90	50	mg/kg	84	57-113	Q49295
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Matrix Spike Duplicate					Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount	Units						

275461 Gasoline Range Organics (GRO)	44.10	50	mg/kg	88	57-113	5	0 - 23	Q49295
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Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	

Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q49322
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Laboratory Control Sample					Recovery %	Recovery Ranges %	QC Batch ID
	Result	Spike Amount	Units				

Diesel Range Organics (DRO)	65.6	80	mg/kg	82	55-109	Q49322
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Matrix Spike					Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units				

275538 Diesel Range Organics (DRO)	67.5	80	mg/kg	84	50-117	Q49322
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Matrix Spike Duplicate					Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount	Units						

275538 Diesel Range Organics (DRO)	55.8	80	mg/kg	70	50-117	19	0 - 24	Q49322
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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Level II QC Report

4/19/10

N. C. Department of Transportation
 Attn Jodi Overmyer
 c/o Solution - IES
 1101 Nowell Road
 Raleigh, NC 27607

Project Name: U-2826-B
 Project ID: NCDOT Forsyth Co. PSA-Parcel 2
 Project No.: WBS# 34871.2.1

COC Group Number: G0410028
 Date/Time Submitted: 3/31/10 14:30

Mercury by CVAA, method 7471A

Method Blank							QC Batch ID	
	Result	RL	Control Limit	Units				
Mercury	0.00534	0.02	<0.01	mg/kg			Q49336	
Laboratory Control Sample								
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		QC Batch ID	
Mercury	0.41037	0.417	mg/kg	98	80-120		Q49336	
Matrix Spike								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		QC Batch ID	
276160 Mercury	0.38922	0.3985	mg/kg	96	80-120		Q49336	
Matrix Spike Duplicate								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
276160 Mercury	0.40538	0.4047	mg/kg	99	80-120	4	0 - 20	Q49336

#-See Case Narrative



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: SolvHors-IES
 Report To/Contact Name: Bob Overmyer
 Reporting Address: 1101 Warrick Rd Raleigh NC 27607

Phone: 919-873-1060 Fax (Yes) (No):
 Email (Yes) (No) Email Address: overmyer@solvhors.com
 EDD Type: PDF Excel Other
 Site Location Name: Parcel 2 (92)
 Site Location Physical Address: Winston Salem, NC

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Fuquay Co. 85A
 Short Hold Analysis: (Yes) (No) (No) UST Project: (Yes) (No) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IIII IV) provisions and/or QC Requirements
 Invoice To: WCDOT 485 34874.2.1
 Address: State Project U-2826-B

Purchase Order No./Billing Reference:
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days
 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)

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				
PZ-1-2-4	3/30/10	826	Soil	GL	88	none method 282602	X	X	275456
PZ-2-2-4		846							275457
PZ-3-2-4		920							275458
PZ-4-2-4		949							275459
PZ-5-0-2		1020							275460
PZ-6-6-8		1025							275461
PZ-7-6-8		1055							275462
PZ-8-6-8		1120							275463
PZ-9-6-8		1140							275464
PZ-10-6-8		1218							275465

PRISM USE ONLY

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

PRISM USE ONLY

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

PRISM USE ONLY

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

PRISM USE ONLY

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

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

Fed Ex UPS Hand-delivered Prism Field Service Other

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

CONTAINER TYPE CAPS: A - Amber C - Clear G - Glass P - Plastic TI - Tallon-lined Can VOA = Volatile Organics Analysis (Zero Head Space)

LANDFILL OTHER: NC SC NC SC NC SC NC SC

Additional Comments: _____

Date: 3-31-10 1235
 Date: _____
 Date: 3/31/10 1430
 Log in Group No. G0410223

Received By: (Signature) [Signature]
 Received By: (Signature) [Signature]
 Received For Prism Laboratories By: [Signature]

Sampled By (Print Name) Bob Eli Affiliation SolvHors-IES

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



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: 1101 Waverell Rd
Raleigh NC 27607

Phone: 919-875-1060 Fax (Yes) (No):

Email (Yes) (No) Email Address: Jovermyer@Solutions-ies.com

EDD Type: PDF Excel Other

Site Location Name: Daniel Z (PZ) Moore A10

Site Location Physical Address:

CHAIN OF CUSTODY RECORD

PAGE Z OF Z QUOTE # TO ENSURE PROPER BILLING:

Project Name: Foxlyth C.R.A

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

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

Invoice To: NCCDOT LBS 34871.2.1

Address: State project U-2826 - B

Purchase Order No./Billing Reference

Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days

"Working Days" 6-9 Days Standard 10 days

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)

CLIENT 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				
PZ-11-6-8	3/30/10	1240	Soil	GL	8	none/method	X	X	275466
PZ-12-6-8	3/30/10	1315	↓	↓	↓	none/method	X	X	275467
M-1-6-8	3/30/10	1430	Soil	GL	3	None/method	X	X	275468
M-2-6-8	↓	1450	↓	↓	↓	↓	↓	↓	275469
M-3-6-8	↓	1515	↓	↓	↓	↓	↓	↓	275470
M-4-6-8	↓	1530	↓	↓	↓	↓	↓	↓	275471
M-5-6-8	↓	1550	↓	↓	↓	↓	↓	↓	275472

PRISM USE ONLY

Site Arrival Time
Site Departure Time
Field Tech Fee
Mileage

Additional Comments:

Date	3-31-10
Date	
Date	3/31/10
Log-in Group No.	50410023

Sampled By (Print Name) Brian Ellens Affiliation Solutions IES

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

Relinquished By (Signature) [Signature]

Relinquished By (Signature) [Signature]

Relinquished By (Signature) [Signature]

Relinquished By (Signature) [Signature]

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other

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

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

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-lined Can VOA = Volatile Organics Analysis (7aro Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL