

**PRELIMINARY SITE ASSESSMENT
THE DRIVE SHAFT SHOP
1531 SOUTH MAIN STREET (US HIGHWAY 29)
SALISBURY, ROWAN COUNTY, NORTH CAROLINA
NCDOT PROJECT: U-3459
WBS ELEMENT: 34951.1.1**

Prepared for:
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Solutions-IES Project No. 3210.06A3.NDOT

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is considering shifting the alignment of Klumac Road (NC SR-2541) located in Salisbury, Rowan County, North Carolina to the west of its present location. If the alignment of Klumac Road is shifted, it will be necessary for the NCDOT to acquire properties located within the new proposed right-of-way. On May 24, 2006, Solutions-IES submitted a proposal to conduct limited Preliminary Site Assessments (PSAs) for five parcels of land located within the proposed right-of-way that are of concern to the NCDOT. This report summarizes the results of field activities conducted during the PSA for a portion of the property identified by NCDOT as the Drive Shaft Shop (**Figure 1**). The right-of-way portion of this site (Study Area) is more clearly identified on **Figure 2**. The property itself is presently owned by Industrial Supply Solutions. The scope of work executed at the site was performed in general accordance with Solutions-IES proposal NC06527P dated May 24, 2006 (proposal), and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on June 20, 2006 under contract 7000007053, dated June 5, 2006.

2.0 BACKGROUND AND SITE DESCRIPTION

The subject property is located at 1531 South Main Street at the intersection of South Main Street (US Highway 29) and East "A" Avenue within the City Limits of Salisbury, Rowan County, North Carolina (site). According to information provided by the NCDOT, the property currently houses a small facility that manufactures driveshafts and other drivetrain components. According to field observations, the facility consists of a single-story block building and an active manufacturing facility. The surface of the site is covered with a mixture of concrete, asphalt and grass. An electrical tower is located in the southwestern portion of the site. Numerous utilities including buried sanitary and storm sewer, natural gas and water cross the site. Photographs of the Study Area at the site are presented in **Appendix A**.

Solutions-IES reviewed information documented in a variety of websites to assist in identifying potential contaminants of interest (COIs) that could impact the right-of-way or easement for each of the properties investigated. Section 6.0 provides a summary of the websites utilized in this information review. Cleaning solvents, degreasers, and petroleum-based lubricants are typically used in the driveshaft manufacturing process, and therefore there is a possibility that these constituents may have been released from this site to the subsurface in the vicinity of the proposed right-of-way. Based on this information,

Solutions-IES selected analytical parameters that would be representative of these possible COIs from a typical driveshaft shop (Section 6.0, References 2, 3, 4, 5, 6, 7, and 8).

3.0 FIELD ACTIVITIES

Prior to mobilizing to the site to conduct subsurface sampling, Solutions-IES contacted North Carolina One Call and the City of Salisbury Public Utilities Department to locate underground utilities in the Study Area of the site. Pyramid Environmental & Engineering, P.C. (Pyramid) was contracted to perform an electromagnetic survey of the subsurface in the proposed right-of-way and easement area. Pyramid surveyed the Study Area on June 26 and June 29, 2006. The electromagnetic survey equipment (EM61) identified various magnetic anomalies within the Study Area, and Pyramid returned to the Study Area to perform a ground penetrating radar (GPR) survey utilizing a “Geophysical Survey Systems SIR 2000” instrument. Results of the surveys confirmed the locations of buried utilities along the eastern portion of the site, but did not indicate the presence of buried metallic underground storage tanks (USTs). The EM61 images are included on **Figures 3, 4 and 5** in **Appendix B**. A GPR image was not included in the geophysical report for the site.

After reviewing the geophysical report, Solutions-IES mobilized to the site and obtained soil samples from various locations within the Study Area. These activities were conducted on July 17, 2006. A total of seven soil borings (borings INDB1 through INDB7) were collected from the Study Area from the locations depicted on **Figure 3**. The borings were labeled “IND” to designate the current property owner, Industrial Supply Solutions. Soil boring INDB1 was advanced to a total depth of 12 feet below ground surface (ft bgs) while borings INDB2 through INDB7 were advanced to a total depth of 8 ft bgs. All borings were advanced with a truck-mounted Geoprobe®. Borings INDB1 through INDB7 were generally spaced approximately 20 feet apart on the north-south axis of the Study Area parallel to East “A” Avenue. All borings were located between 10 and 22 feet from the edge of East “A” Avenue (**Figure 3**).

Soil samples were obtained from each boring using a MacroCore® sampler fitted with single-use, disposable polyvinyl chloride liners. Each liner was 4 feet in length. Upon retrieval, each soil sample was split into two aliquots of 2 feet in length. The aliquots were placed in separate resealable plastic

bags. One bag was placed on ice for possible laboratory analysis, and the remaining bag was sealed and placed at ambient temperature for field screening with a flame ionization detector (FID).

Volatile organic compounds (VOCs) were allowed to accumulate in the headspace of each bag for approximately 20 minutes, after which time each sealed bag was scanned with the FID. The FID readings were entered on the boring logs along with the soil description and indications of notable staining or odors, if present. Logs for each boring are presented in **Appendix C**. Soils from the borings at the Drive Shaft Shop Study Area generally consisted of sandy or clayey silt (ML) and mottled silty clay (CL).

Headspace screening of the soil samples revealed the presence of volatile vapors in several of the samples screened with the FID. Concentrations ranged from 3.1 part per million (ppm) (INDB3, 0.5-2 ft bgs) to 373 ppm (INDB5, 4-6 ft bgs). These measurements are presented in **Table 1**. No distinguishable odors were noted in these soil samples.

Soil samples for laboratory analysis were retained from each boring at the sample intervals identified in **Table 1**. These samples were selected for analysis as they presented the highest FID measurements within the borings, or, if no volatile vapors were present, were obtained from the 6 – 8 ft bgs depth interval. The samples were placed in laboratory-supplied containers and stored on ice pending shipment to Pace Analytical Services, Inc. in Huntersville, NC. Sample information was recorded on the chain-of-custody and the samples were submitted for chemical analysis of select metals (chromium, manganese, nickel and zinc) by EPA Method 6010, VOCs by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, petroleum-based lubricants and total petroleum hydrocarbons (TPH) by Modified EPA Method 5030/8015, and by Modified EPA Method 3545/8015.

4.0 SAMPLING RESULTS

The analytical data indicate the presence of metals including chromium, manganese, nickel, and zinc in concentrations above the laboratory reporting limits. Total chromium is present in concentrations exceeding the soil cleanup levels provided in Table 3 of the North Carolina Department of Environment and Natural Resources (NCDENR) “Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater” (July 2000) (GW Section Guidelines) in soil samples from borings INDB1, INDB2, INDB4, and INDB5. Soil cleanup levels are not provided for manganese, nickel

and zinc. Total petroleum hydrocarbons as Diesel-Range Organics (TPH DRO), or petroleum based lubricants, were detected in a single sample (INDB7 6-8) at a concentration of 19 mg/kg. Analytical data for the remaining samples retained from the site revealed no VOCs, SVOCs, or TPH Gasoline-Range Organics (GRO) in concentrations above the laboratory reporting limits. These analytical data are summarized in **Table 2**. Laboratory reports associated with these samples are presented in **Appendix D**. The TPH DRO detected in INDB7 6-8 does not exceed the TPH DRO “Action Level” of 40 mg/kg as provided by the GW Section Guidelines.

5.0 DISCUSSION AND CONCLUSIONS

The geophysical survey conducted at the site did not reveal buried metallic USTs within the Study Area. The survey did suggest metallic anomalies in locations consistent with the presence of buried utility lines or conduits.

Solutions-IES advanced seven soil borings to determine the presence or absence of COIs in the Study Area on the parcel, as well as document soil conditions. Soil samples obtained from the borings and screened with an FID revealed the presence of volatile vapors in some samples at concentrations ranging from 3.1 to 373 ppm. However, the analytical data for soils samples submitted for chemical analysis showed that TPH GRO, TPH DRO, VOCs and SVOCs were detectable with the exception of one report of TPH-DRO in INDB7 6-8, which did not exceed the respective “Action Level”.

The investigation data results revealed the presence of select metals, with chromium detected at concentrations exceeding the soil cleanup levels provided in the GW Section Guidelines. Four of the seven samples submitted for analysis exceeded the chromium soil cleanup level. The analytical method utilized for the chromium analyses did not speciate trivalent and hexavalent chromium. However, these results do not exceed the North Carolina Industrial Risk-Based Preliminary Remediation Goal (PRG) which is 100,000 mg/kg for trivalent chromium, and 64 mg/kg for hexavalent chromium, as provided in Appendix 3a in the North Carolina Division of Waste Management Hazardous Waste Section “Guidelines for Establishing Remediation Goals at RCRA Hazardous Waste Sites” (May 2005). Data collected from other Study Areas during this investigation along the Grade Separation at Klumac Road suggest that the range of chromium detected in the Drive Shaft Shop area is similar to chromium concentrations detected in surrounding properties. Chromium analyses were performed on soil borings collected from the Johnson Chemical Plant Study Area and the Former FCX Chemical Plant Study Areas. These properties

are located south/southeast of the Drive Shaft Shop (**Figure 2**). **Table 3** provides a summary of data from these three locations. Given the range of chromium concentration (14 to 74 mg/kg) and average concentrations across the area soils (34 ± 17 mg/kg) it is likely that the chromium results for the Drive Shaft Shop reflect background concentrations naturally present in area soils. However, additional investigation may be necessary to confirm the background concentrations of chromium.

Additionally, the investigation data show that soil concentrations of manganese exceeded the laboratory reporting limit in all seven soil samples, with results ranging from a low of 42 mg/kg (INDB2 6 – 8 ft bgs) to a high of 5,400 mg/kg manganese (INDB1 6 – 8 ft bgs). GW Section Guidelines do not provide a soil cleanup level for manganese. These manganese detections may be representative of naturally occurring manganese, or may be related to industrial processes that are used or were historically used in the manufacturing of driveshafts and drivetrain components.

6.0 WEBSITE REFERENCES

- 1) <http://arcims.webgis.net/nc/rowan/default.asp>
- 2) <http://ust.enr.state.nc.us/database.html>
- 3) <http://h2o.enr.state.nc.us/aps/gpu.htm>
- 4) <http://www.wastenotnc.org/sfhome/ihsbrnch.htm>
- 5) http://h2o.enr.state.nc.us/su/State_SW_Mngt_Program.htm
- 6) <http://www.epa.gov/epaoswer/osw/hazwaste.htm>
- 7) <http://www.epa.gov/superfund/sites/cursites/index.htm>
- 8) http://oaspub.epa.gov/enviro/multisys2.get_list_tri?tri_fac_id=47201NTNDR8251S
- 9) <http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/stclglslsn.pdf>
- 10) <http://matse1.mse.uiuc.edu/concrete/prin.html>
- 11) <http://www.lib.ncsu.edu:2420/knovel2/Toc.jsp?BookID=356&VerticalID=0>
- 12) http://cementamericas.com/mag/cement_cement_concrete_environment/index.html
- 13) <https://www.esa.doc.gov/comments%20dept%20of%20commerce%20on%20gas%20prices%20i mpact%20-%20may%2016%20-%20ez.doc>
- 14) <http://www.esa.org/science/Issues/FileEnglish/issue3.pdf>
- 15) <http://pirg.uwaterloo.ca/download/docs/rubber.html>
- 16) www.sbcfire.org/hazmat/env_terms.asp
- 17) http://www.atsdr.cdc.gov/HAC/PHA/trent/tre_p1.html
- 18) http://www.cpuc.ca.gov/Environment/info/esa/corona/corona_hazards.

TABLES

TABLE 1
Summary of Field Screening Results
Drive Shaft Shop
Salisbury, Rowan County, NC
WBS Element: 34951.1.1, TIP #: U-3459
Solutions-IES Project No. 3210.06A3.NDOT
Sample Collection Date: 7/17/06

Sample Depth Below Ground Surface	Soil Borings						
	INDB1	INDB2	INDB3	INDB4	INDB5	INDB6	INDB7
	FID Reading (ppm)						
0 - 2 feet	ND	ND	3.1	NR	NR	NR	NR
2 - 4 feet	ND	ND	ND	ND	NR	NR	ND
4 - 6 feet	ND	ND	15.1	34.6	373.0	242.0	NR
6 - 8 feet	ND	ND	ND	8.7	259.0	217.0	113
8 - 10 feet	ND	NS	NS	NS	NS	NS	NS
10 - 12 feet	ND	NS	NS	NS	NS	NS	NS

NOTES:

FID = Flame Ionization Detector

FID readings were obtained with a Photovac MicroFID Flame Ionization Detector

ND = Not detected

NR = No recovery

NS = No sample taken

ppm = parts per million

Samples denoted by shaded cells were submitted for laboratory analysis.

TABLE 2
Summary of Laboratory Analytical Results
Drive Shaft Shop
Salisbury, Rowan County, NC
WBS Element: 34951.1.1, TIP #: U-3459
Solutions-IES Project No. 3210.06A3.NDOT

LOCATION			DRIVE SHAFT SHOP						
Sample ID			INDB1 6-8	INDB2 6-8	INDB3 4-6	INDB4 4-6	INDB5 4-6	INDB6 4-6	INDB7 6-8
Depth (ft bgs)			6-8	6-8	4-6	4-6	4-6	4-6	6-8
Date Collected			7/17/2006	7/17/2006	7/17/2006	7/17/2006	7/17/2006	7/17/2006	7/17/2006
Parameter	Regulatory Limit ¹	Units							
SVOCs (EPA Method 3545 / 8270)									
All results less than laboratory reporting limit									
VOCs (EPA Method 5035 / 8260)									
All results less than laboratory reporting limit									
METALS (EPA Methods 3050 / 6010)									
Chromium	27	mg/kg	61	46	27	31	23	43	24
Manganese	NS	mg/kg	5400	42	930	490	430	2300	260
Nickel	NS	mg/kg	6.0	3.3	3.5	4.9	5.8	5.5	5.4
Zinc	NS	mg/kg	25	15	12	18	19	21	20
OTHER ANALYSES									
TPH DRO (Action Level)	40	mg/kg	<6.7	<6.8	<6.5	<6.5	<6.8	<6.7	19
TPH GRO (Action Level)	10	mg/kg	<5.8	<5.7	<4.7	<4.9	<5.0	<5.0	<4.8

NOTES:

Bold values indicate detected concentrations

DRO = Diesel Range Organics

ft bgs = feet below ground surface

GRO = Gasoline Range Organics

mg/kg = milligrams per kilogram

NA = Not analyzed

NS = No standard

Shaded values exceed Regulatory Limits

SVOCs = Semi Volatile Organic Compounds

VOCs = Volatile Organic Compounds

¹ Regulatory Limits are from NCDENR "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater", July 2000.

TABLE 3
Comparison of Area Chromium Soil Concentrations
Salisbury, Rowan County, NC
WBS Element: 34951.1.1, TIP #: U-3459
Solutions-IES Project No. 3210.06A3.NDOT

Study Area Location	Sample Date	Sample ID	Sample Depth	Chromium Concentrations	Residential Risk-Based PRGs ¹	Industrial Risk-Based PRGs, Total Chromium ¹	Residential Clean up Levels, Trivalent Chromium ¹	Industrial Risk-Based PRGs, Trivalent Chromium ¹	Residential Risk-Based PRGs, Hexavalent Chromium ¹	Industrial Risk-Based PRGs, Hexavalent Chromium ¹
				ft bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Drive Shaft Shop	7/17/2006	INDB1 6-8	6 - 8	61	210	450	100,000	100,000	30	64
Drive Shaft Shop	7/17/2006	INDB2 6-8	6 - 8	46	210	450	100,000	100,000	30	64
Drive Shaft Shop	7/17/2006	INDB3 4-6	4 - 6	27	210	450	100,000	100,000	30	64
Drive Shaft Shop	7/17/2006	INDB4 4-6	4 - 6	31	210	450	100,000	100,000	30	64
Drive Shaft Shop	7/17/2006	INDB5 4-6	4 - 6	23	210	450	100,000	100,000	30	64
Drive Shaft Shop	7/17/2006	INDB6 4-6	4 - 6	43	210	450	100,000	100,000	30	64
Drive Shaft Shop	7/17/2006	INDB7 6-8	6 - 8	24	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/17/2006	JOHNB1 14-16	14 - 16	14	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/17/2006	JOHNB2 6-8	6 - 8	27	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/18/2006	JOHNB3 6-8	6 - 8	8.2	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/18/2006	JOHNB4 6-8	6 - 8	74	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/18/2006	JOHNB5 6-8	6 - 8	13	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/18/2006	JOHNB6 4-6	4 - 6	23	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/18/2006	JOHNB7 6-8	6 - 8	44	210	450	100,000	100,000	30	64
Johnson Concrete Plant	7/18/2006	JOHNB8 4-6	4 - 6	51	210	450	100,000	100,000	30	64
Former FCX Chemical Plant	7/17/2006	FCXB1 6-8	6 - 8	16	210	450	100,000	100,000	30	64
Former FCX Chemical Plant	7/17/2006	FCXB2 6-8	6 - 8	52	210	450	100,000	100,000	30	64
Former FCX Chemical Plant	7/17/2006	FCXB3 6-8	6 - 8	42	210	450	100,000	100,000	30	64
Former FCX Chemical Plant	7/17/2006	FCXB4 6-8	6 - 8	24	210	450	100,000	100,000	30	64
Former FCX Chemical Plant	7/17/2006	FCXB5 6-8	6 - 8	42	210	450	100,000	100,000	30	64

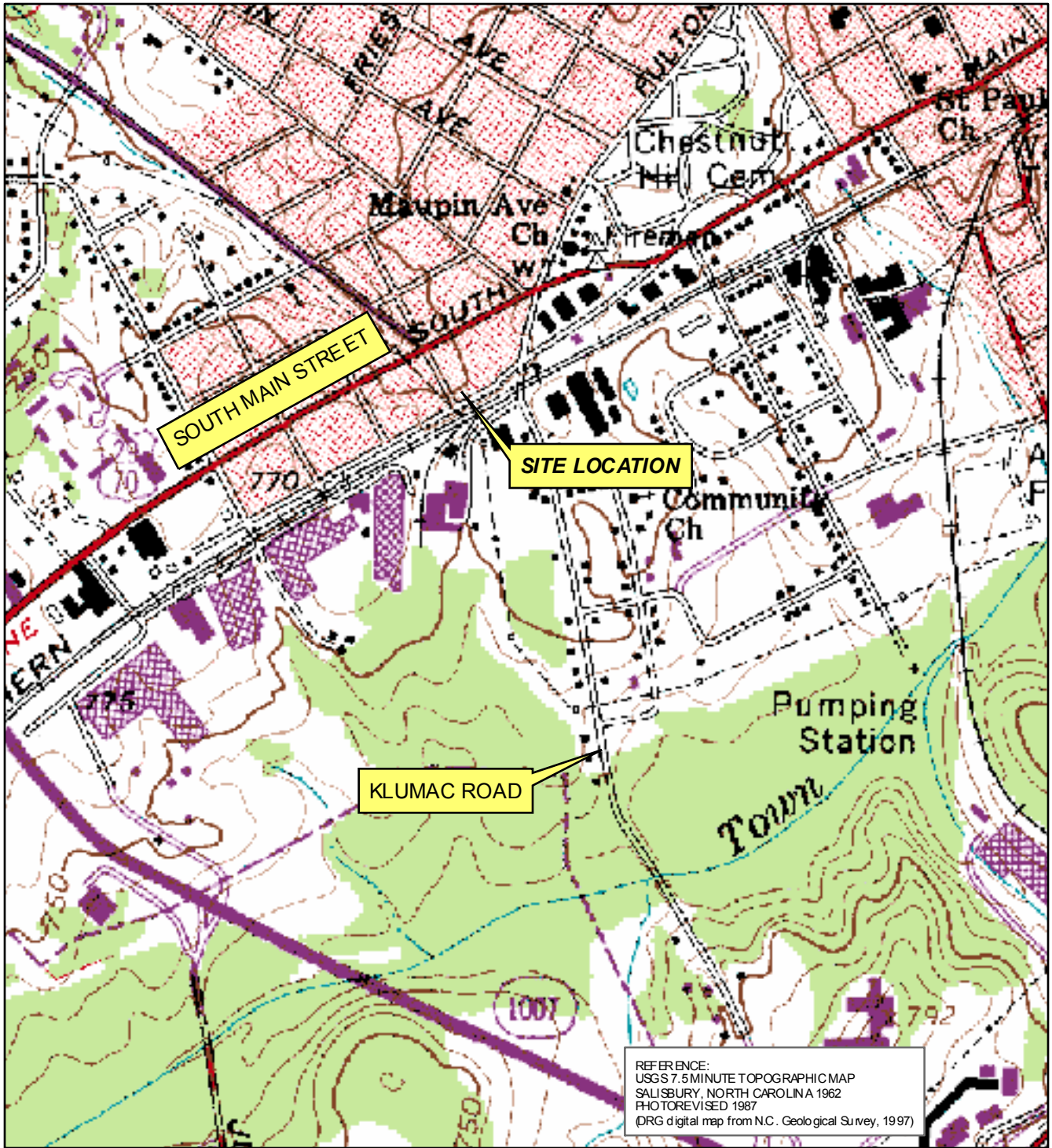
Average chromium concentration = (mg/kg)	34
Standard deviation	17

NOTES:

- Bold values indicate detected concentrations
- ft bgs = feet below ground surface
- mg/kg = milligrams per kilogram
- PRG = Preliminary Remediation Goals

¹Regulatory limits for Chromium from Appendix 3a from "Guidelines for Establishing Remediation Goals at RCRA Hazardous Waste Sites", Hazardous Waste Section, State of North Carolina Department of Environment and Natural Resources [NCDENR] Division of Waste Management, May 2005.

FIGURES



1:10,000

SITE LOCATION MAP

**DRIVE SHAFT SHOP
GRADE SEPARATION AT KLUMAC ROAD
SALISBURY, ROWAN COUNTY, NC**

WBS ELEMENT 31951.1.1; STATE PROJECT U-3459



1101 Nowell Road, Raleigh, NC 27609 Phone (919) 873-1060, Fax (919) 873-1074	
Created by: RT	Project: 3210.06A3.NDOT
Checked by: SK	Date: AUGUST 2006
File: Figure 1.mxd	
Software: ESRI ArcMap 9.1	FIGURE 1

PROJECT NUMBER
3218-0683-N001

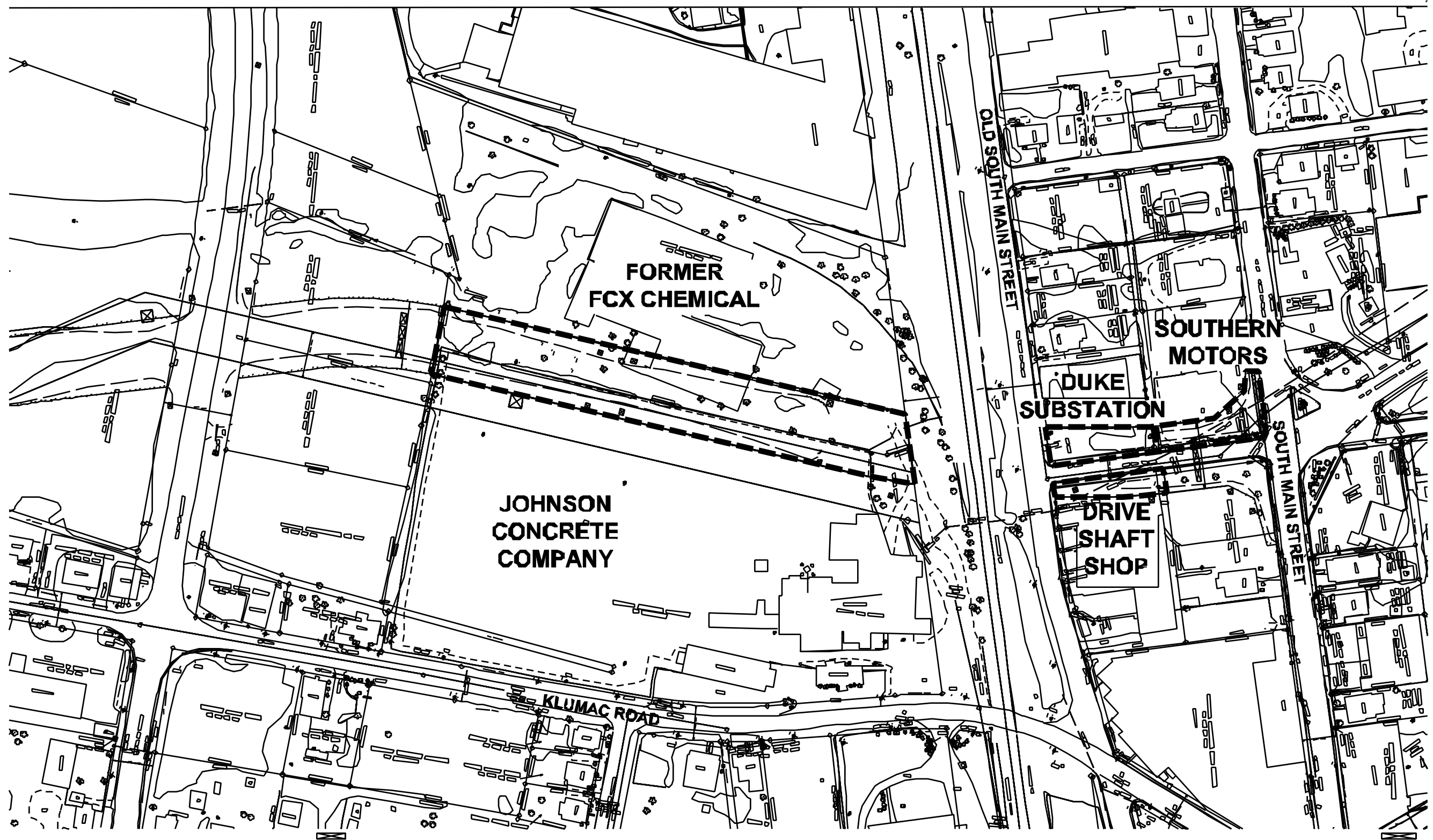
DRAFTER
RT

CHECKED BY
SK

PROJECT MANAGER
SK

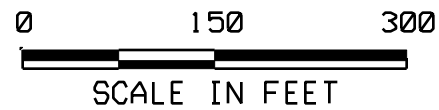
DATE
AUGUST 2006

FILE
FIG2.DGN



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

NOTES:



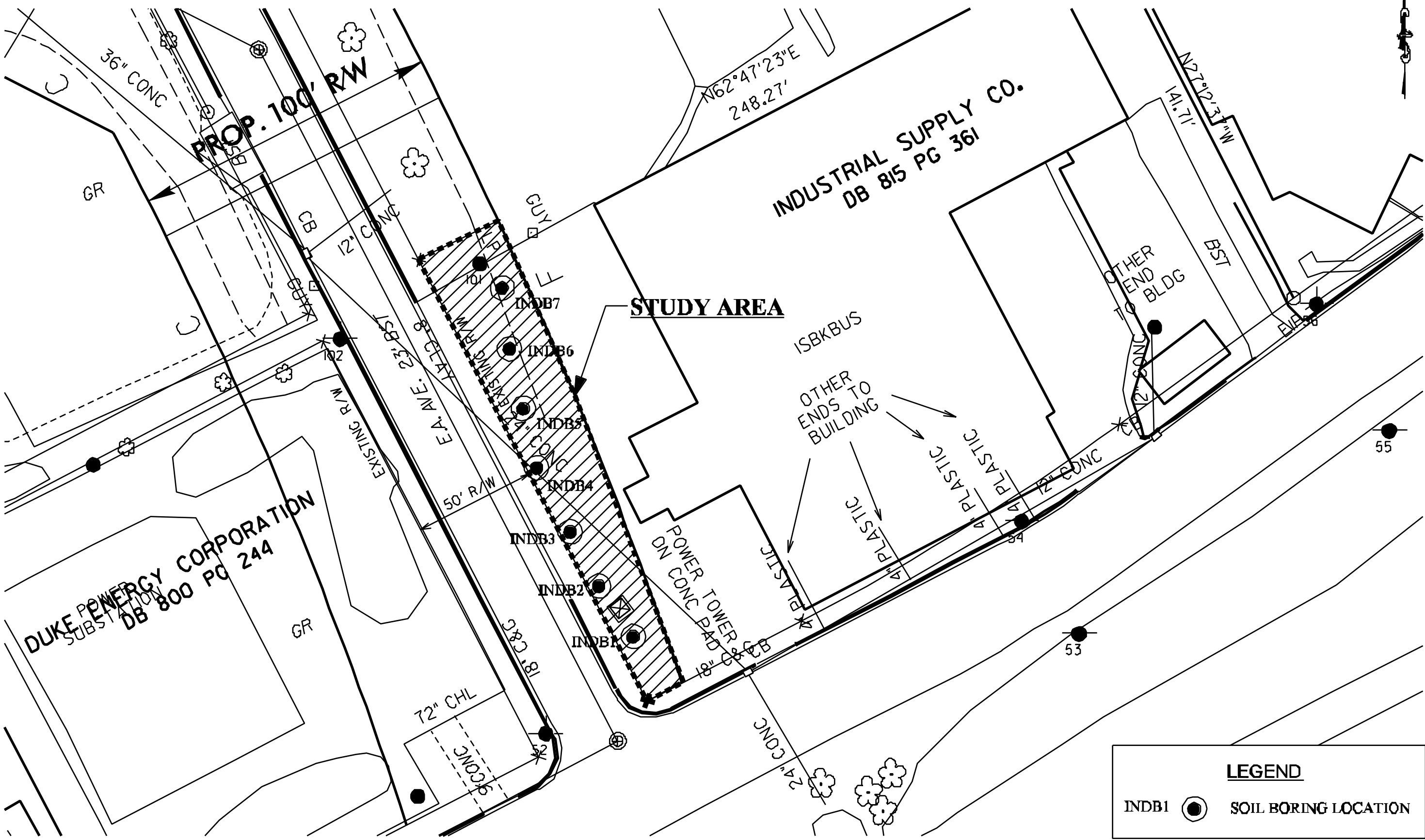
DRIVE SHAFT SHOP
 GRADE SEPARATION AT KLUMAC ROAD
 SALISBURY, ROWAN COUNTY, NC
 WBS ELEMENT 31951.1.1; STATE PROJECT U-3459

SITE MAP

FIGURE:

2

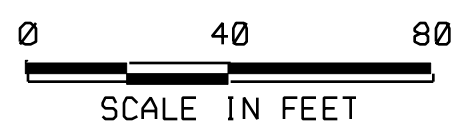
FILE F:103.DGN DATE AUGUST 2006 PROJECT MANAGER SK CHECKED BY SK DRAFTER RT PROJECT NUMBER 3210.06A3.NDOT



LEGEND

INDB1 ● SOIL BORING LOCATION

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



DRIVE SHAFT SHOP
 GRADE SEPARATION AT KLUMAC ROAD
 SALISBURY, ROWAN COUNTY, NC
 WBS ELEMENT 31951.1.1; STATE PROJECT U-3459
 LOCATION 3

SOIL BORING LOCATIONS
 3

APPENDIX A
PHOTOGRAPHS



Photograph 1– View from north to south along East “A” Avenue. Study Area along western boundary of site.



Photograph 2– View from northwest to southeast from corner of single story brick building. Study Area along western edge of roadway.



Photograph 3– View from south to north from corner of East “A” Avenue and Old South Main Street. Study Area runs north behind electrical tower.

APPENDIX B

GEOPHYSICAL INVESTIGATION

GEOPHYSICAL INVESTIGATION REPORT
GEOPHYSICAL SURVEYS FOR THE DETECTION OF METALLIC UST'S

Klumac Road Realignment Project
Salisbury, North Carolina
State Project Number 34951.1.1 (TIP # U3459)

July 14, 2006

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GEOPHYSICAL SURVEYS FOR THE DETECTION OF METALLIC UST'S
Klumac Road Realignment Project
State Project Number 34951.1.1 (TIP # U3459)

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- Figure 7 Johnson Concrete & FCX Chemical Sites – EM61 Metal Detection Results

1.0 INTRODUCTION

Pyramid Environmental & Engineering, P.C. conducted geophysical investigations for Solutions Industrial & Environmental Services, Inc. during the period of June 26 through July 7, 2006, within the proposed Right-of-Way (ROW) areas at five sites along the proposed Klumac Road realignment project area in Salisbury, North Carolina. The work was done as part of the North Carolina Department of Transportation (NCDOT) road-widening project under State Project WBS Element 34951.1.1 (TIP # U-3459). The five sites are located along or adjacent to the intersection of Old South Main Street and East “A” Avenue in Salisbury.

Geophysical investigations were conducted across the eastern edges of the Southern Motors and the Duke Power substation properties located along the west side of East “A” Avenue. Investigations were also conducted along the western edge of The Drive Shaftshop property located along the east side of East “A” Avenue. The western edge of the former FCX Chemical site and the eastern portion of the Johnson Concrete facility, located south of Old Main Street, were also included in the geophysical investigation. The geophysical surveys were conducted to determine if unknown metallic underground storage tanks (USTs) were present beneath the proposed ROW area of each site.

Solutions Industrial and Environmental Services representative, Ms. Sheri Knox, PE, provided maps to Pyramid Environmental during the week of May 22, 2006 that outlined the geophysical survey area of each site. A site map and photographs showing the geophysical survey areas of the five sites are presented in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigations, a 10-foot by 20-foot survey grid was established across the proposed ROW areas of the five sites using water-based marking paint and pin flags. These 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 investigations consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM surveys were performed using a Geonics EM61-MK1 metal detection instrument. According to the manufacturer's specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. The EM61 data were digitally collected at each site along parallel northerly-southerly trending survey lines spaced five feet apart. 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.

Contour plots of the EM61 bottom coil results and the EM61 differential results for each site are included in this report. 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.

GPR surveys were conducted across selected EM61 differential anomalies and steel-reinforced concrete using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. GPR data were digitally collected in a continuous mode along X and/or Y survey lines, spaced two to five feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. An 80 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 five feet, based on an estimated two-way travel time of 10 nanoseconds per foot.

The GPR data were downloaded to a field computer and later reviewed in the office using Radprint software. The locations of GPR survey areas or individual GPR survey lines are shown as dashed, purple rectangles or solid purple lines, respectively on the EM61 differential contour plots. Photos of

the EM61 and GPR instruments are shown in **Figure 2**. During the weeks of June 26 and July 10, 2006, preliminary contour plots of the EM61 bottom coil and the differential results were emailed to Ms. Knox and Ms. Heather Markell.

3.0 DISCUSSION OF RESULTS

3.1 East Avenue “A” Sites

The East Avenue “A” sites consist of the geophysical survey areas across portions of the Southern Motors, Duke Power substation, and The Driveshaft Shop properties. **Figure 3** shows the geophysical survey area and the geophysical survey lines across the above three properties. The red dots on the plot represent the approximate locations of the EM61 metal detection survey lines. Each dot represents a data point location. The purple lines represent the approximate locations of the GPR survey lines that were acquired across selected EM61 anomalies and areas containing steel reinforced concrete.

The bottom coil results and the differential results are presented in **Figures 4 and 5**, respectively. The linear EM61 bottom coil anomalies intersecting grid coordinates X=40 Y=88, X=40 Y=380, X=60 Y=62, X=60 Y=120, X=64 Y=360, X=70 Y=250, X=70 Y=287, and X=120 Y=114, are probably in response to buried utility lines or conduits. The linear anomaly intersecting grid coordinates X=45 Y=180, is probably in response to the metal fence that surrounds the Duke Power substation property. The majority of the remaining bottom coil anomalies are probably in response to known cultural features such as manhole covers, storm sewer grates, and steel reinforced concrete.

GPR surveys conducted across the differential anomalies centered near grid coordinates X=5 Y=202, X=40 Y=237, and X=73 Y=390, suggest the anomalies are in response to miscellaneous metal debris or conduits. GPR surveys conducted across the concrete pavement centered near grid coordinates X=15 Y=410, and X=115 Y=160, suggest the metal detection anomalies recorded at these areas are probably in response to steel reinforcement in the concrete. The geophysical

investigation did not detect the presence of buried metallic USTs within the surveyed areas of the Southern Motors, The Driveshaft Shop and the Duke Power substation properties.

3.2 Johnson Concrete & Former FCX Chemical Sites

Figure 6 shows the geophysical survey area across the western portion of the Johnson Concrete facility and the eastern edge of the former FCX Chemical property. Similar to Figure 3, the red dots on the plot represent the approximate locations of the EM61 metal detection survey lines. Each dot represents a data point location. The purple lines represent the approximate locations of the GPR survey lines that were acquired across selected EM61 anomalies and areas containing steel reinforced concrete. The plot shows that nearly half of the proposed ROW area on the Johnson Concrete property contains concrete culverts, equipment and other supplies that obstructed the geophysical investigation.

The bottom coil results and the differential results for the Johnson Concrete and former FCX Chemical properties are presented in **Figure 7**. The linear EM61 bottom coil anomaly intersecting grid coordinates X=80 Y=750, is probably in response to a buried utility line or conduit. The numerous bottom coil anomalies located around X=20 Y=270, and X=90 Y=680, are probably in response to buried, miscellaneous, metal debris or objects. The remaining anomalies are probably in response to adjacent supplies, surface equipment or steel reinforced concrete.

GPR surveys conducted across the large steel reinforced concrete slab and the adjacent concrete footing centered near grid coordinates X=25 Y=380, and X=17 Y=530, respectively, suggest that these two areas do not contain metallic USTs. GPR surveys conducted across the EM61 differential anomalies centered near grid coordinates X=67 Y=385, X=85 Y=690, and X=102 Y=270, suggest that the metal detection anomalies are probably in response to miscellaneous metal debris. The

geophysical investigation results suggest the surveyed portions of the Johnson Concrete facility and the former FCX Chemical property do not contain buried metallic USTs.

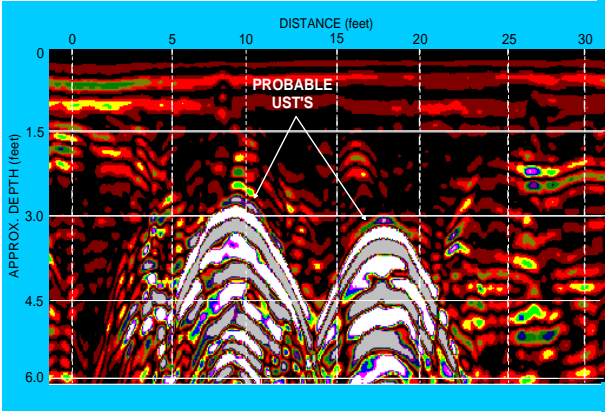
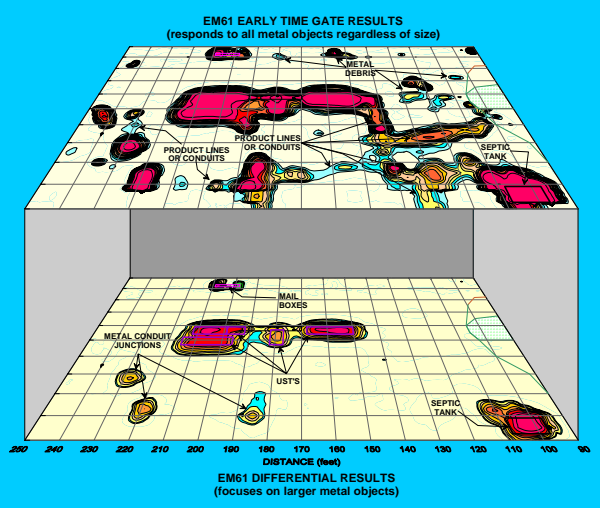
4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the proposed ROW areas at the Klumac Road Realignment site located along Old South Main Street and East “A” Avenue in Salisbury, North Carolina provides the following summary and conclusions:

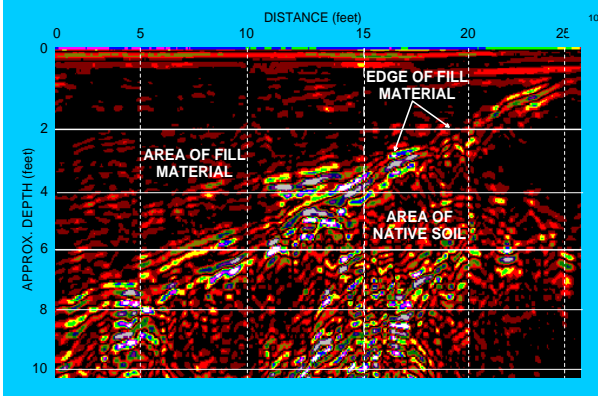
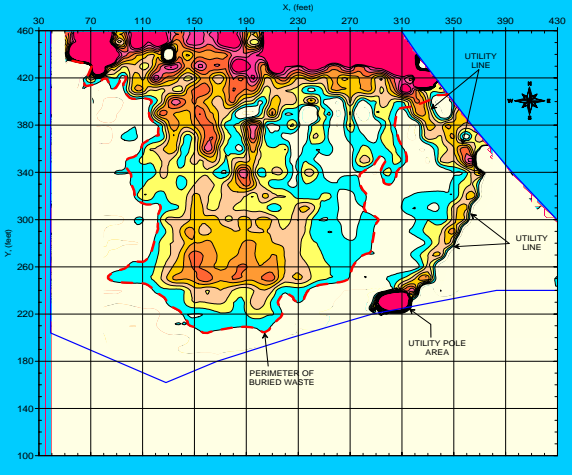
- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portions of the Southern Motors, Duke Power substation, The Driveshaft Shop, Johnson Concrete, and the former FCX Chemical properties.
- GPR surveys were conducted across selected EM61 differential anomalies and across areas containing steel reinforced concrete.
- At the East “A” Avenue sites, the linear EM61 anomalies intersecting grid coordinates X=40 Y=88, X=40 Y=380, X=60 Y=62, X=60 Y=120, X=64 Y=360, X=70 Y=250, X=70 Y=287, and X=120 Y=114, are probably in response to buried utility lines or conduits. The remaining metal detection anomalies are probably in response to known cultural features or to buried miscellaneous metal debris.
- The linear EM61 anomaly intersecting grid coordinates X=80 Y=750, at the Johnson Concrete property is probably in response to a buried utility line or conduit. The remaining metal detection anomalies recorded at the Johnson Concrete and the former FCX Chemical properties are probably in response to adjacent surface equipment, steel reinforced concrete, or buried miscellaneous metal debris.
- The geophysical investigations results did not detect the presence of metallic USTs within the surveyed portions of the five properties.

5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for Solutions Industrial & Environmental Services, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project do not conclusively determine that metallic USTs are not present across the surveyed portions of the five sites but only suggest that none were detected. Some anomalies may be attributed to other surface or subsurface conditions or cultural interference.



FIGURES





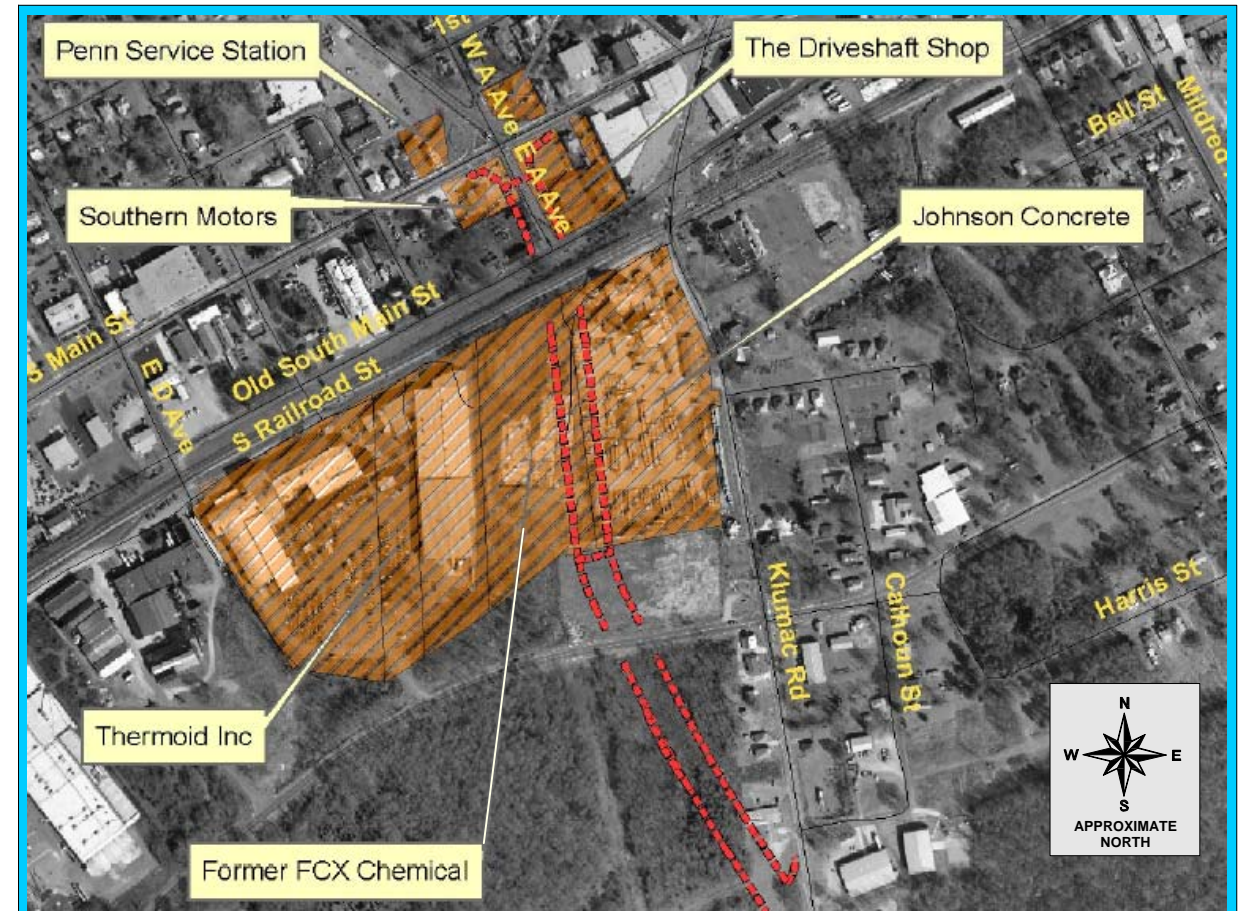
The photo shows the geophysical survey area across portions of the Southern Motors, The Driveshaft Shop and the Duke Power substation properties located along East "A" Avenue. The photo is veiwed in a northerly direction.



The photo shows the geophysical survey area across the western edge of the Johnson Concrete facility. The photo is veiwed in a northerly direction.



The photo shows the geophysical survey area across the eastern edge of the Former FCX Chemical site located contingent to the Johnson Concrete facility shown above. The photo is veiwed in a northerly direction.



The photo shows the locations of the Southern Motors, Duke Power substation, The Driveshaft Shop, Johnson Concrete, and the former FCX Chemical properties where geophysical investigations were conducted. The map was obtained from Solutions-IES/NC DOT.



CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENTAL		DATE	07/14/06	DRWN	MJD
SITE	KLUMAC ROAD REALIGNMENT PROJECT		LAY		CHKD	
CITY	SALISBURY	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		J-NO	2006-176	FIGURE	

SITE MAP AND PHOTOGRAPHS



The photo shows the Geonics EM61 metal detector that was used to conduct the metal detection survey at the Old South Main Street and East "A" Avenue sites in Salisbury, North Carolina on June 26, 27, and July 7, 2006. The instrument has a maximum investigating depth of approximately 8 feet.



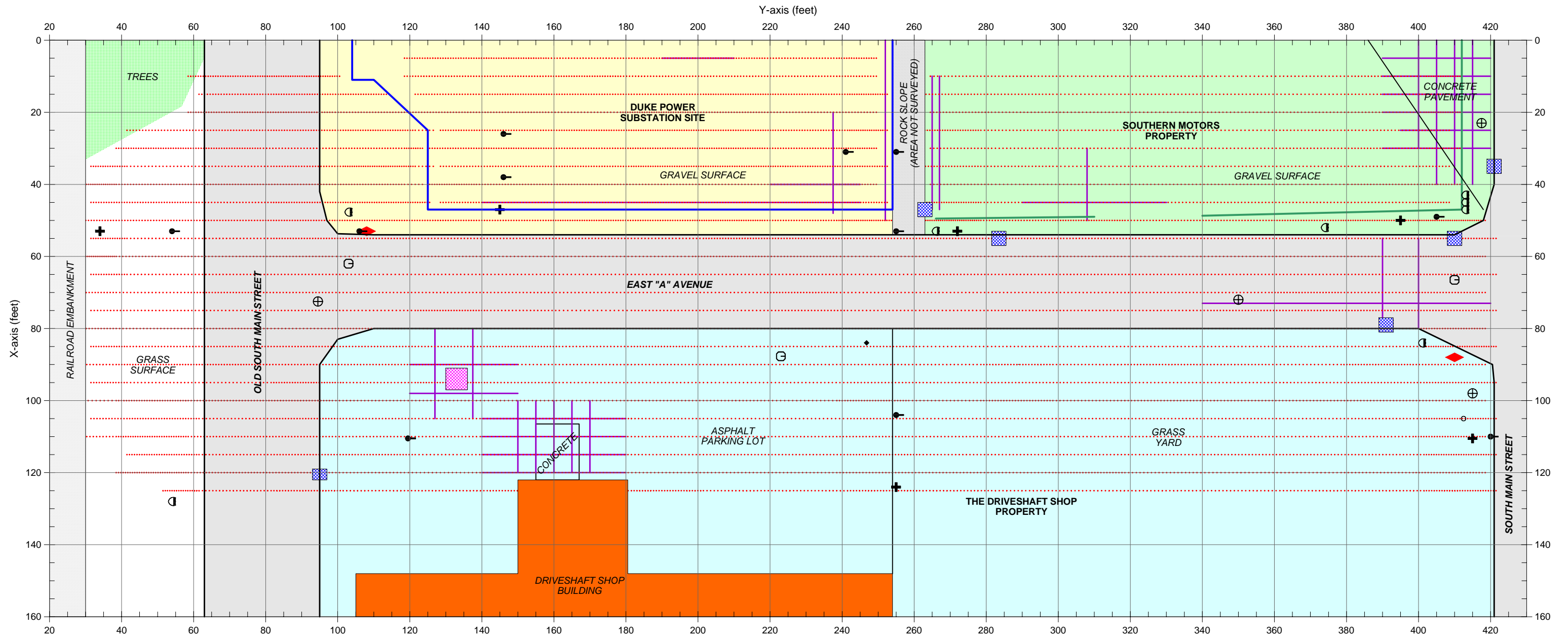
The photos show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at the Old South Main Street and East "A" Avenue sites in Salisbury, North Carolina on June 29 & July 7, 2006.



CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENTAL		DATE	07/14/06	BY	
PROJECT	KLUMAC ROAD REALIGNMENT PROJECT		DATE		BY	
CITY	SALISBURY	STATE	NORTH CAROLINA		DATE	
TITLE	GEOPHYSICAL RESULTS		NO.	2006-176	REV.	

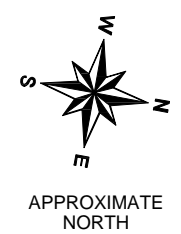
GEOPHYSICAL
EQUIPMENT

FIGURE 2



LEGEND

⊕	MANHOLE COVERS	◆	FIRE HYDRANT
⊗	WATER METER OR VALVE COVER	■	ELECTRICAL TOWER
+	GUY WIRE	—	METAL FENCE LINE
●	UTILITY POLE	—	CHAIN FENCE
Ⓞ	TRAFFIC SIGN	⋯	EM61 METAL DETECTION SURVEY LINE
■	STORM SEWER GRATE	—	GPR SURVEY LINE
◆	VENT/FILL PORT		



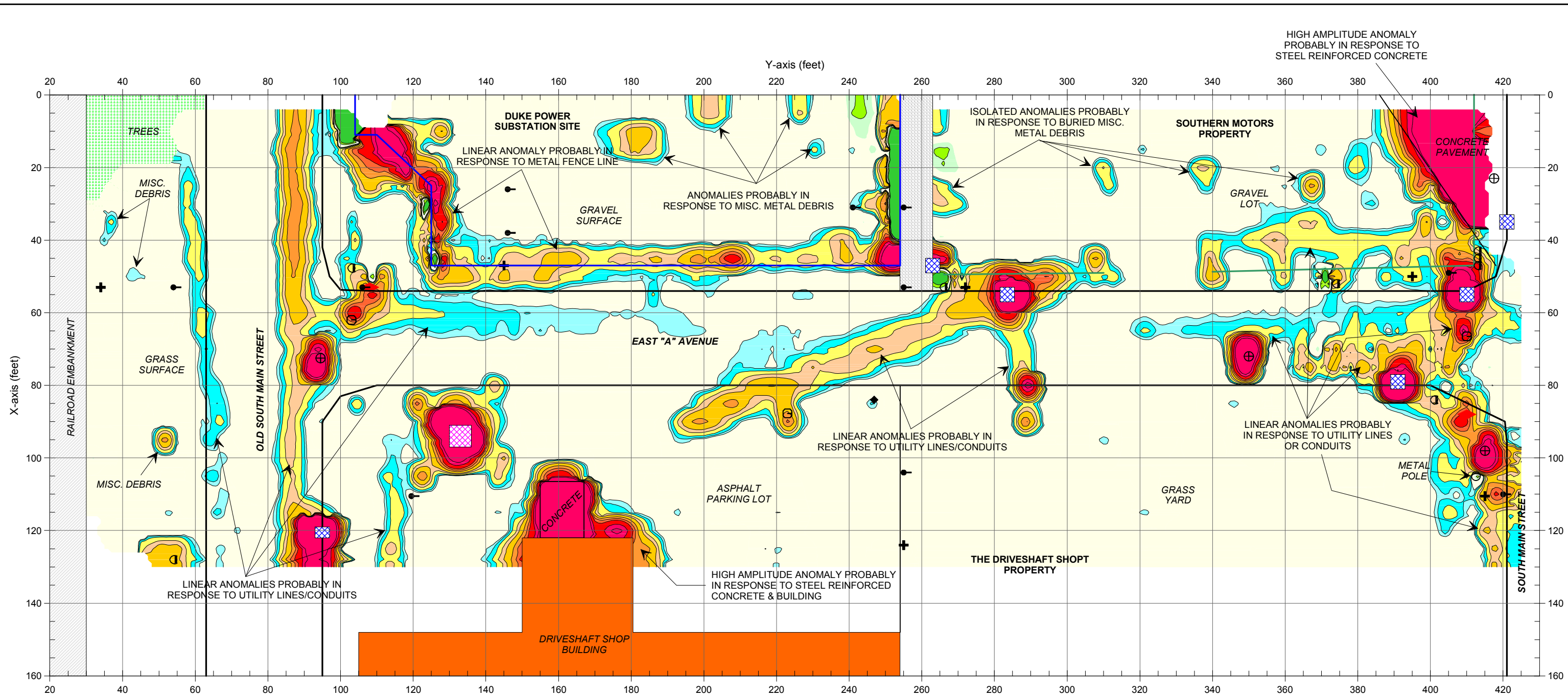
Note: The map shows the geophysical survey area along East "A" Avenue. The red dots represent the EM61 survey lines that were acquired on June 26, 2006 using a Geonics EM61 metal detection instrument. The purple lines represent the ground penetrating radar (GPR) survey lines that were acquired on June 29, 2006 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.



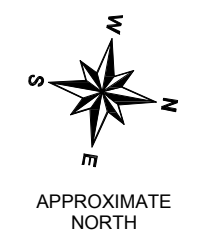
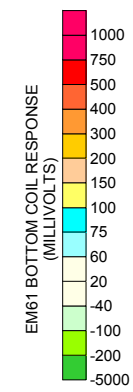
CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENTAL		DATE	07/14/06	DRWN	MJD
SITE	EAST "A" AVENUE SITES		LAY		CHKD	
CITY	SALISBURY	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		J-NO	2006-176	FIGURE	

EM61 & GPR
SURVEY LINE LOCATIONS

FIGURE 3



LEGEND	
	EM61 SURVEY AREA: EM DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY TRENDING LINES SPACED 5 FEET APART
	MANHOLE COVERS
	WATER METER OR VALVE COVER
	GUY WIRE
	UTILITY POLE
	TRAFFIC SIGN
	STORM SEWER GRATE
	VENT/FILL PORT
	FIRE HYDRANT
	ELECTRICAL TOWER
	METAL FENCE LINE
	CHAIN FENCE
	GPR SURVEY LINE



Note: 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 June 26, 2006 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 29, 2006 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The majority of linear EM61 bottom coil anomalies, shown above, are probably in response to buried utility lines or conduits. Negative EM anomalies (shaded in green) are probably in response to metallic surface objects. The geophysical investigation suggests that the survey area does not contain metallic USTs.

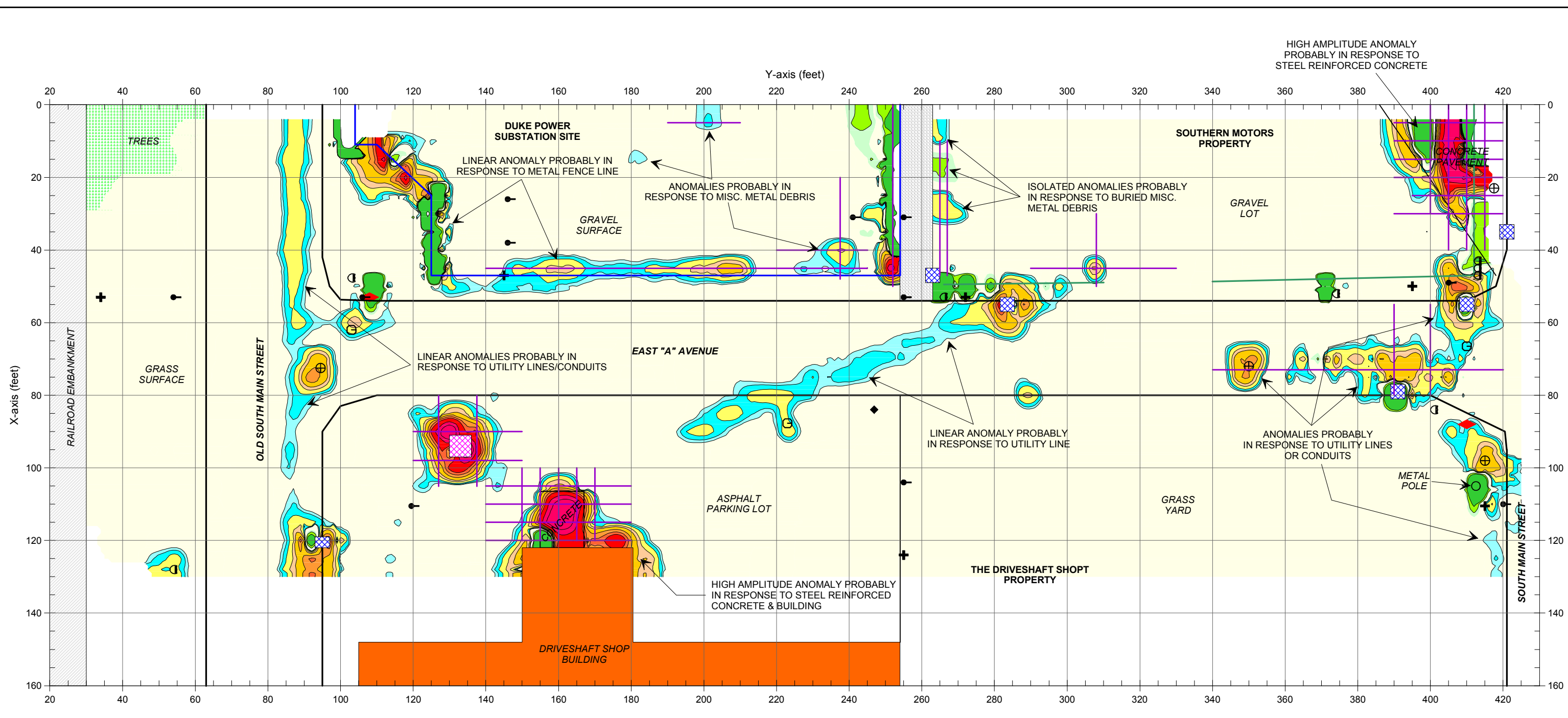
PRELIMINARY RESULTS



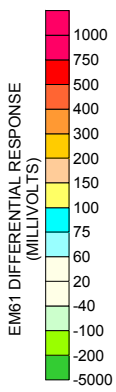
CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENTAL	DATE	06/30/06	DRAWN	MJD
SITE	EAST "A" AVENUE SITES	LAY		CHKD	
CITY	SALISBURY	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	J.NG	2006-176	FIGURE	

EM61
BOTTOM COIL
RESULTS

FIGURE 4



HIGH AMPLITUDE ANOMALY
PROBABLY IN RESPONSE TO
STEEL REINFORCED CONCRETE



Note: The contour plot shows the differential results of the EM61 metal detection survey in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and UST's and ignores smaller miscellaneous, buried, metal debris. The EM metal detection data were collected on June 26, 2006 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 29, 2006 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The majority of linear EM61 bottom coil anomalies, shown above, are probably in response to buried utility lines or conduits. Negative EM anomalies (shaded in green) are probably in response to metallic surface objects. The geophysical investigation suggests that the survey area does not contain metallic USTs.

PRELIMINARY RESULTS

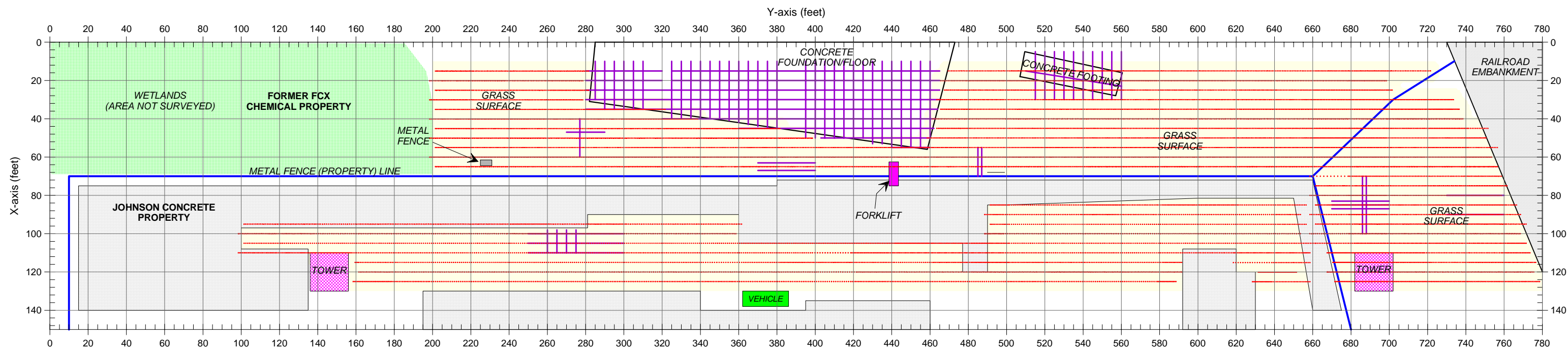
LEGEND	
	EM61 SURVEY AREA: EM DATA ACQUIRED ALONG NORTHERLY-SOUTHERLY TRENDING LINES SPACED 5 FEET APART
	MANHOLE COVERS
	WATER METER OR VALVE COVER
	GUY WIRE
	UTILITY POLE
	TRAFFIC SIGN
	STORM SEWER GRATE
	VENT/FILL PORT
	FIRE HYDRANT
	ELECTRICAL TOWER
	METAL FENCE LINE
	CHAIN FENCE
	GPR SURVEY LINE



CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENTAL	DATE	06/30/06	DRAWN	MJD
SITE	EAST "A" AVENUE SITES	LAY		CHKD	
CITY	SALISBURY	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	J.NG.	2006-176	FIGURE	

EM61 DIFFERENTIAL RESULTS

FIGURE 5



LEGEND

- EM61 SURVEY AREA: EM DATA ACQUIRED ALONG NORTH-SOUTH TRENDING LINES SPACED 5 FEET APART
- AREA CONTAINING CONCRETE BLOCKS, CULVERTS, SUPPLIES AND EQUIPMENT
- ELECTRICAL TOWER
- METAL FENCE LINE
- EM61 METAL DETECTION SURVEY LINE
- GPR SURVEY LINE



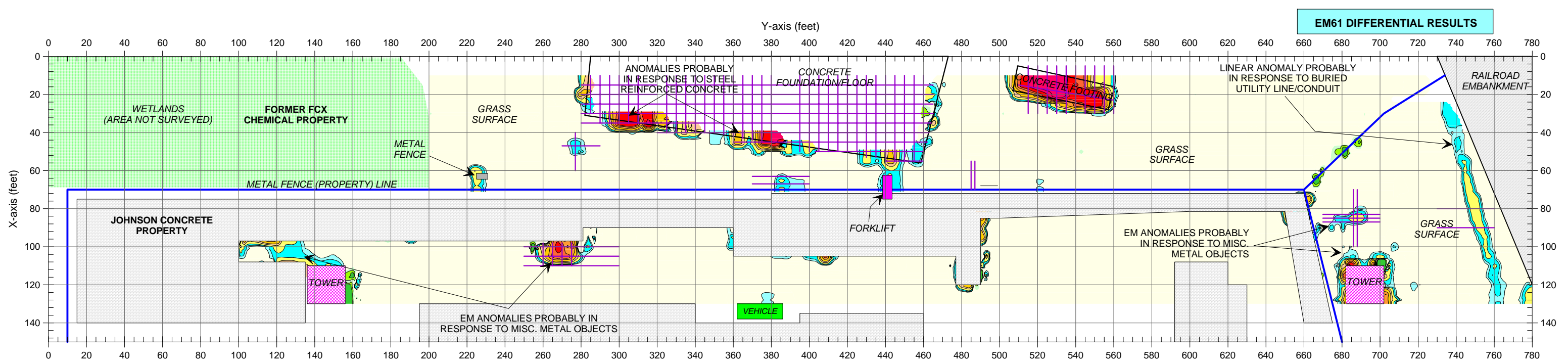
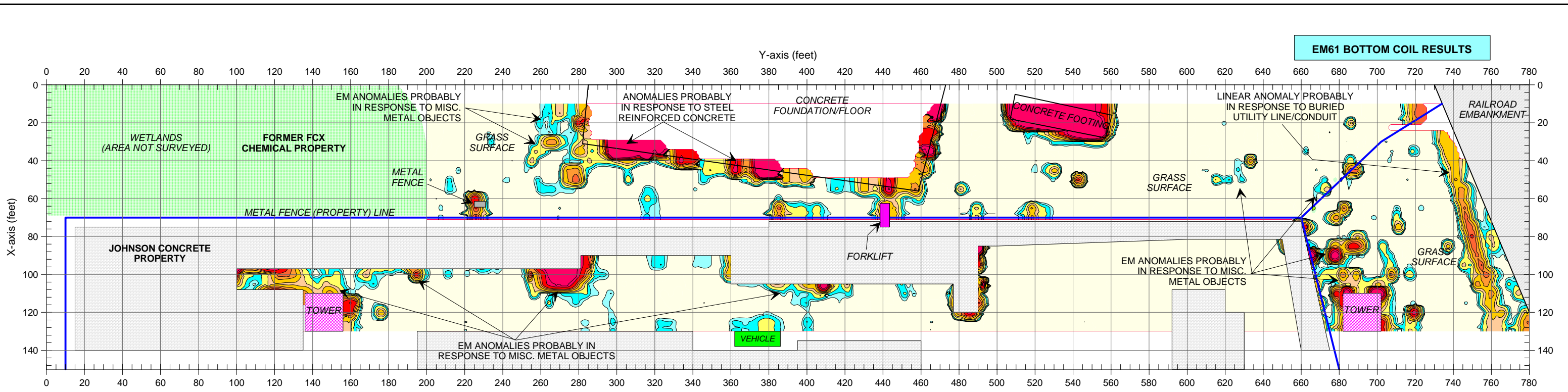
Note: The map shows the geophysical survey area along the western portion of the Johnson Concrete facility and the eastern edge of the former FCX Chemical property. The red dots represent the EM61 survey lines that were acquired on July 7, 2006 using a Geonics EM61 metal detection instrument. The purple lines represent the ground penetrating radar (GPR) survey lines that were also acquired on July 7, 2006 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.



CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENTAL		DATE	07/14/06	DRWN	MJD
SITE	JOHNSON CONCRETE & FORMER FCX CHEMICAL SITES		LAY		CHKD	
CITY	SALISBURY	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		J-NO.	2006-176	FIGURE	

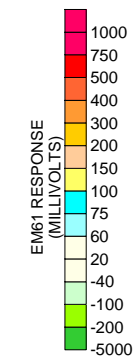
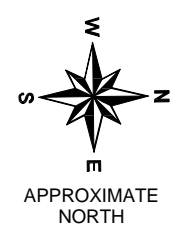
**EM61 & GPR
SURVEY LINE LOCATIONS**

FIGURE 6



LEGEND

- EM61 SURVEY AREA: EM DATA ACQUIRED ALONG NORTH-SOUTH TRENDING LINES SPACED 5 FEET APART
- AREA CONTAINING CONCRETE BLOCKS, CULVERTS, SUPPLIES AND EQUIPMENT
- ELECTRICAL TOWER
- METAL FENCE LINE
- GPR SURVEY LINE



Note: The contour plots show 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 UST's and ignores smaller miscellaneous, buried, metal debris. The EM metal detection data were collected on June 26 & July 7, 2006 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 29 & July 7, 2006 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.



CLIENT	SOLUTIONS INDUSTRIAL & ENVIRONMENT		DATE	07/14/06	DRAWN	MJD
SITE	JOHNSON CONCRETE & FORMER FCX CHEMICAL SITES		LAY		CHKD	
CITY	SALISBURY	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		J-NO.	2006-176	FIGURE	

EM61 RESULTS

FIGURE 7

APPENDIX C
BORING LOGS

Log of Soil Boring: INDB1

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB1

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: NA

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 12'

SUBSURFACE PROFILE			SAMPLE		PID Field Screen			Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm				
					FID Field Screen				
					ppm				
					250	500	750		
0		Ground Surface							
0		Asphalt and gravel							
1	SM	Moist, brown and orange, medium silty sand (fill)		100					
2	ML	Moist, tan and orange, clayey silt		100					
3	ML	Moist, orange and tan, clayey silt		100					
4	ML	Moist, tan, orange and brown, clayey silt		100					
5	ML	Damp, tan and brown, silt		100					
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 (919) 873-1060



Log of Soil Boring: INDB2

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB2

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: NA

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 8'

SUBSURFACE PROFILE			SAMPLE		PID Field Screen			Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	250	500	750		
0		Ground Surface							
0		Asphalt and gravel							
1	CL	Moist, tan and orange, silty clay		100	0				
2	CL	Moist, red and orange, silty clay		100	0				
3	CL	Moist, red and orange, silty clay		100	0				
4	CL	Moist, orange and brown, silty clay		100	0				
5	CL	Moist, orange and brown, silty clay		100	0				
6	ML	Moist to damp, tan, brown and orange, clayey silt		100	0				
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
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Log of Soil Boring: INDB3

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB3

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: NA

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 8'

SUBSURFACE PROFILE			SAMPLE		PID Field Screen			Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	250	500	750		
0		Ground Surface							
		Asphalt and gravel							
1	SM	Moist, gray, fine silty sand		100	3				
2									
3				100	0				
4	CL	Moist, tan and brown, silty clay							
5		Damp at 6 ft bgs		100	15				
6									
7				100	0				
8									
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 (919) 873-1060



Log of Soil Boring: INDB4

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB4

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: 7.9'

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 8'

SUBSURFACE PROFILE			SAMPLE					Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	PID Field Screen ppm 250 500 750				
					FID Field Screen ppm 250 500 750				
0		Ground Surface							
0	●●●●	Asphalt and gravel							
1		No Recovery		0					
2									
3				25	0				
4	CL	Moist, brown and tan, silty clay							
5		No Recovery		50	35				
6	ML	Damp, brown and gray, clayey silt							
7	CL	Moist, gray and orange, silty clay		100	9				▼
8									
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 (919) 873-1060



Log of Soil Boring: INDB5

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB5

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: NA

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 8'

SUBSURFACE PROFILE			SAMPLE		PID Field Screen			Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm				
					FID Field Screen				
					ppm				
					250	500	750		
0		Ground Surface							
0		Asphalt and gravel							
1		No Recovery		0					
2									
3				0					
4	CL	Moist, brown and orange, silty clay		100		373			
5									
6	CL	Moist, gray and tan, silty clay		100		259			
7									
8	ML	Damp, tan and brown, clayey silt							
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 (919) 873-1060



Log of Soil Boring: INDB6

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB6

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: NA

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 8'

SUBSURFACE PROFILE			SAMPLE		PID Field Screen			Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm				
					FID Field Screen				
					ppm				
					250	500	750		
0	●●●●●●●●	Ground Surface							
1	●●●●●●●●	Asphalt and gravel		0					
2		No Recovery							
3				0					
4	/ / / / / /	CL Moist, brown and red, fine sandy clay		100	242				
5	/ / / / / /								
6	/ / / / / /	CL Moist to damp, mottled gray and red, sandy clay		100	217				
7	/ / / / / /								
8	/ / / / / /	ML Damp, tan and orange, silt							
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 (919) 873-1060



Log of Soil Boring: INDB7

Project: Klumac Rd. Project

Solutions-IES Project No.: 3210.06A3.NDOT

Boring Number: INDB7

Client: NCDOT

WBS # 34951.1.1

City: Salisbury

Initial Water Level: NA

State Project # U-3459

County: Rowan

Stabilized Water Level: NA

Drilling Method: Direct Push

Boring Date: 7/17/06

Cave In Depth: NA

Sampler Type: Macro Core

Site: Industrial Supply Solutions

Logged By: KB

Checked By: JM

Total Depth of Boring: 8'

SUBSURFACE PROFILE			SAMPLE		PID Field Screen			Lab Sample Depth	Well Data
Depth ft. bgs	USCS Symbol	Description	Sample Interval	% Recovery	ppm				
					FID Field Screen				
					ppm				
					250	500	750		
0		Ground Surface							
0	Asphalt and gravel								
1	No Recovery			0					
2	No Recovery			0					
3	CL Moist, gray and red, fine sandy clay			65					
4	No Recovery			15					
5	No Recovery			15					
6	ML Moist to damp, gray and brown, fine sandy clayey silt			100	113				
7				100					
8									
9									
10									
11									
12									
13									
14									
15									
16									

Solutions-IES, Inc.
 1101 Nowell Road
 Raleigh, NC 27607
 (919) 873-1060



APPENDIX D

LABORATORY ANALYTICAL REPORTS



Pace Analytical Services, Inc.
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

July 31, 2006

Mr. Christopher A. Peoples
NC DOT
Materials & Test Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Lab Project Number: 92123456
Client Project ID: NCDOT 34951.1.1 Ind. Supply

Dear Mr. Peoples:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Handwritten signature of Bonnie McKee

for

Bonnie McKee
bonnie.mckee@pacelabs.com
(704) 875-9092 ext. 234
Project Manager

Enclosures

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Solid results are reported on a dry weight basis

Lab Sample No: 927208215 Project Sample Number: 92123456-001 Date Collected: 07/17/06 17:15
Client Sample ID: INDB1 6-8 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Metals

Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Chromium	61.	mg/kg	0.24	07/25/06 18:54	SHB	7440-47-3		
Manganese	5400	mg/kg	6.1	07/25/06 18:54	SHB	7439-96-5		
Nickel	6.0	mg/kg	0.61	07/25/06 18:54	SHB	7440-02-0		
Zinc	25.	mg/kg	1.2	07/25/06 18:54	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	25.4	%		07/19/06 09:52	TNM			

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270							
Acenaphthene	ND	ug/kg	440	07/26/06 02:18	BET	83-32-9		
Acenaphthylene	ND	ug/kg	440	07/26/06 02:18	BET	208-96-8		
Anthracene	ND	ug/kg	440	07/26/06 02:18	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	440	07/26/06 02:18	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	440	07/26/06 02:18	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	440	07/26/06 02:18	BET	56-55-3		
Benzoic acid	ND	ug/kg	2200	07/26/06 02:18	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	440	07/26/06 02:18	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	890	07/26/06 02:18	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	440	07/26/06 02:18	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	440	07/26/06 02:18	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	440	07/26/06 02:18	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	890	07/26/06 02:18	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	890	07/26/06 02:18	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	440	07/26/06 02:18	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	440	07/26/06 02:18	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	440	07/26/06 02:18	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	440	07/26/06 02:18	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	440	07/26/06 02:18	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	440	07/26/06 02:18	BET	7005-72-3		
Chrysene	ND	ug/kg	440	07/26/06 02:18	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	440	07/26/06 02:18	BET	53-70-3		
Dibenzofuran	ND	ug/kg	440	07/26/06 02:18	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	440	07/26/06 02:18	BET	95-50-1		

Date: 07/31/06

Page: 1 of 69

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208215
Client Sample ID: INDB1 6-8

Project Sample Number: 92123456-001
Matrix: Soil

Date Collected: 07/17/06 17:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,3-Dichlorobenzene	ND	ug/kg	440	07/26/06 02:18	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	440	07/26/06 02:18	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	890	07/26/06 02:18	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	440	07/26/06 02:18	BET	120-83-2		
Diethylphthalate	ND	ug/kg	440	07/26/06 02:18	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	440	07/26/06 02:18	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	440	07/26/06 02:18	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	440	07/26/06 02:18	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	440	07/26/06 02:18	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2200	07/26/06 02:18	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	440	07/26/06 02:18	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	440	07/26/06 02:18	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	440	07/26/06 02:18	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	440	07/26/06 02:18	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	440	07/26/06 02:18	BET	117-81-7		
Fluoranthene	ND	ug/kg	440	07/26/06 02:18	BET	206-44-0		
Fluorene	ND	ug/kg	440	07/26/06 02:18	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	440	07/26/06 02:18	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	440	07/26/06 02:18	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	440	07/26/06 02:18	BET	77-47-4		
Hexachloroethane	ND	ug/kg	440	07/26/06 02:18	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	440	07/26/06 02:18	BET	193-39-5		
Isophorone	ND	ug/kg	440	07/26/06 02:18	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	440	07/26/06 02:18	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	440	07/26/06 02:18	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	440	07/26/06 02:18	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	440	07/26/06 02:18	BET			
Naphthalene	ND	ug/kg	440	07/26/06 02:18	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2200	07/26/06 02:18	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2200	07/26/06 02:18	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2200	07/26/06 02:18	BET	100-01-6		
Nitrobenzene	ND	ug/kg	440	07/26/06 02:18	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	440	07/26/06 02:18	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2200	07/26/06 02:18	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	440	07/26/06 02:18	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	440	07/26/06 02:18	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2200	07/26/06 02:18	BET	87-86-5		
Phenanthrene	ND	ug/kg	440	07/26/06 02:18	BET	85-01-8		
Phenol	ND	ug/kg	440	07/26/06 02:18	BET	108-95-2		

Date: 07/31/06

Page: 2 of 69

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208215
Client Sample ID: INDB1 6-8

Project Sample Number: 92123456-001
Matrix: Soil

Date Collected: 07/17/06 17:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Pyrene	ND	ug/kg	440	07/26/06 02:18	BET	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/kg	440	07/26/06 02:18	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	440	07/26/06 02:18	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	440	07/26/06 02:18	BET	88-06-2		
Nitrobenzene-d5 (S)	35	%		07/26/06 02:18	BET	4165-60-0		
2-Fluorobiphenyl (S)	40	%		07/26/06 02:18	BET	321-60-8		
Terphenyl-d14 (S)	62	%		07/26/06 02:18	BET	1718-51-0		
Phenol-d5 (S)	18	%		07/26/06 02:18	BET	4165-62-2	1	
2-Fluorophenol (S)	10	%		07/26/06 02:18	BET	367-12-4		
2,4,6-Tribromophenol (S)	11	%		07/26/06 02:18	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015						
Diesel Fuel	ND	mg/kg	6.7	07/20/06 12:57	KBS	68334-30-5	
n-Pentacosane (S)	60	%		07/20/06 12:57	KBS	629-99-2	
Date Extracted	07/19/06			07/19/06			

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015						
Gasoline	ND	mg/kg	5.8	07/25/06 21:45	DHW		
4-Bromofluorobenzene (S)	71	%		07/25/06 21:45	DHW	460-00-4	

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260						
Acetone	ND	ug/kg	140	07/24/06 16:49	DLK	67-64-1	
Benzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	71-43-2	
Bromobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	108-86-1	
Bromochloromethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	74-97-5	
Bromodichloromethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	75-27-4	
Bromoform	ND	ug/kg	6.9	07/24/06 16:49	DLK	75-25-2	
Bromomethane	ND	ug/kg	14.	07/24/06 16:49	DLK	74-83-9	
2-Butanone (MEK)	ND	ug/kg	140	07/24/06 16:49	DLK	78-93-3	
n-Butylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.9	07/24/06 16:49	DLK	56-23-5	
Chlorobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	108-90-7	
Chloroethane	ND	ug/kg	14.	07/24/06 16:49	DLK	75-00-3	

Date: 07/31/06

Page: 3 of 69

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208215
Client Sample ID: INDB1 6-8

Project Sample Number: 92123456-001
Matrix: Soil

Date Collected: 07/17/06 17:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Chloroform	ND	ug/kg	6.9	07/24/06 16:49	DLK	67-66-3		
Chloromethane	ND	ug/kg	14.	07/24/06 16:49	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	6.9	07/24/06 16:49	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	6.9	07/24/06 16:49	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.9	07/24/06 16:49	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	6.9	07/24/06 16:49	DLK	106-93-4		
Dibromomethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	14.	07/24/06 16:49	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	6.9	07/24/06 16:49	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	6.9	07/24/06 16:49	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	6.9	07/24/06 16:49	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	6.9	07/24/06 16:49	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	6.9	07/24/06 16:49	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	6.9	07/24/06 16:49	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	6.9	07/24/06 16:49	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	6.9	07/24/06 16:49	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	6.9	07/24/06 16:49	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	6.9	07/24/06 16:49	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	6.9	07/24/06 16:49	DLK	87-68-3		
2-Hexanone	ND	ug/kg	69.	07/24/06 16:49	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	6.9	07/24/06 16:49	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	6.9	07/24/06 16:49	DLK	99-87-6		
Methylene chloride	ND	ug/kg	14.	07/24/06 16:49	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	69.	07/24/06 16:49	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	6.9	07/24/06 16:49	DLK	1634-04-4		
Naphthalene	ND	ug/kg	6.9	07/24/06 16:49	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	103-65-1		
Styrene	ND	ug/kg	6.9	07/24/06 16:49	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	630-20-6		
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	6.9	07/24/06 16:49	DLK	127-18-4		
Toluene	ND	ug/kg	6.9	07/24/06 16:49	DLK	108-88-3		

Date: 07/31/06

Page: 4 of 69

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208215
Client Sample ID: INDB1 6-8

Project Sample Number: 92123456-001
Matrix: Soil

Date Collected: 07/17/06 17:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,3-Trichlorobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	79-00-5		
Trichloroethene	ND	ug/kg	6.9	07/24/06 16:49	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	6.9	07/24/06 16:49	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	6.9	07/24/06 16:49	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	6.9	07/24/06 16:49	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	6.9	07/24/06 16:49	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	14.	07/24/06 16:49	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	6.9	07/24/06 16:49	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	14.	07/24/06 16:49	DLK			
o-Xylene	ND	ug/kg	6.9	07/24/06 16:49	DLK	95-47-6		
Toluene-d8 (S)	98	%		07/24/06 16:49	DLK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		07/24/06 16:49	DLK	460-00-4		
Dibromofluoromethane (S)	94	%		07/24/06 16:49	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		07/24/06 16:49	DLK	17060-07-0		

Date: 07/31/06

Page: 5 of 69

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208231
Client Sample ID: INDB2 6-8

Project Sample Number: 92123456-002
Matrix: Soil

Date Collected: 07/17/06 17:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
------------	---------	-------	--------------	----------	----	---------	------	--------

Metals

Metals, Trace ICP		Prep/Method: EPA 3050 / EPA 6010						
Chromium	46.	mg/kg	0.27	07/25/06 18:59	SHB	7440-47-3		
Manganese	42.	mg/kg	0.68	07/25/06 18:59	SHB	7439-96-5		
Nickel	3.3	mg/kg	0.68	07/25/06 18:59	SHB	7440-02-0		
Zinc	15.	mg/kg	1.4	07/25/06 18:59	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture		Method: % Moisture						
Percent Moisture	26.3	%		07/19/06 10:02	TNM			

GC/MS Semivolatiles

Semivolatile Organics		Prep/Method: EPA 3545 / EPA 8270						
Acenaphthene	ND	ug/kg	450	07/26/06 02:40	BET	83-32-9		
Acenaphthylene	ND	ug/kg	450	07/26/06 02:40	BET	208-96-8		
Anthracene	ND	ug/kg	450	07/26/06 02:40	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	450	07/26/06 02:40	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	450	07/26/06 02:40	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	450	07/26/06 02:40	BET	56-55-3		
Benzoic acid	ND	ug/kg	2200	07/26/06 02:40	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	450	07/26/06 02:40	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	900	07/26/06 02:40	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	450	07/26/06 02:40	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	450	07/26/06 02:40	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	450	07/26/06 02:40	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	900	07/26/06 02:40	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	900	07/26/06 02:40	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	450	07/26/06 02:40	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	450	07/26/06 02:40	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	450	07/26/06 02:40	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	450	07/26/06 02:40	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	450	07/26/06 02:40	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	450	07/26/06 02:40	BET	7005-72-3		
Chrysene	ND	ug/kg	450	07/26/06 02:40	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	450	07/26/06 02:40	BET	53-70-3		
Dibenzofuran	ND	ug/kg	450	07/26/06 02:40	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	450	07/26/06 02:40	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	450	07/26/06 02:40	BET	541-73-1		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208231
Client Sample ID: INDB2 6-8

Project Sample Number: 92123456-002
Matrix: Soil

Date Collected: 07/17/06 17:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,4-Dichlorobenzene	ND	ug/kg	450	07/26/06 02:40	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	900	07/26/06 02:40	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	450	07/26/06 02:40	BET	120-83-2		
Diethylphthalate	ND	ug/kg	450	07/26/06 02:40	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	450	07/26/06 02:40	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	450	07/26/06 02:40	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	450	07/26/06 02:40	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	450	07/26/06 02:40	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2200	07/26/06 02:40	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	450	07/26/06 02:40	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	450	07/26/06 02:40	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	450	07/26/06 02:40	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	450	07/26/06 02:40	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	450	07/26/06 02:40	BET	117-81-7		
Fluoranthene	ND	ug/kg	450	07/26/06 02:40	BET	206-44-0		
Fluorene	ND	ug/kg	450	07/26/06 02:40	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	450	07/26/06 02:40	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	450	07/26/06 02:40	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	450	07/26/06 02:40	BET	77-47-4		
Hexachloroethane	ND	ug/kg	450	07/26/06 02:40	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	450	07/26/06 02:40	BET	193-39-5		
Isophorone	ND	ug/kg	450	07/26/06 02:40	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	450	07/26/06 02:40	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	450	07/26/06 02:40	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	450	07/26/06 02:40	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	450	07/26/06 02:40	BET			
Naphthalene	ND	ug/kg	450	07/26/06 02:40	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2200	07/26/06 02:40	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2200	07/26/06 02:40	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2200	07/26/06 02:40	BET	100-01-6		
Nitrobenzene	ND	ug/kg	450	07/26/06 02:40	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	450	07/26/06 02:40	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2200	07/26/06 02:40	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	450	07/26/06 02:40	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	450	07/26/06 02:40	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2200	07/26/06 02:40	BET	87-86-5		
Phenanthrene	ND	ug/kg	450	07/26/06 02:40	BET	85-01-8		
Phenol	ND	ug/kg	450	07/26/06 02:40	BET	108-95-2		
Pyrene	ND	ug/kg	450	07/26/06 02:40	BET	129-00-0		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208231 Project Sample Number: 92123456-002 Date Collected: 07/17/06 17:45
Client Sample ID: INDB2 6-8 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	450	07/26/06 02:40	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	450	07/26/06 02:40	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	450	07/26/06 02:40	BET	88-06-2		
Nitrobenzene-d5 (S)	36	%		07/26/06 02:40	BET	4165-60-0		
2-Fluorobiphenyl (S)	40	%		07/26/06 02:40	BET	321-60-8		
Terphenyl-d14 (S)	54	%		07/26/06 02:40	BET	1718-51-0		
Phenol-d5 (S)	38	%		07/26/06 02:40	BET	4165-62-2	1	
2-Fluorophenol (S)	45	%		07/26/06 02:40	BET	367-12-4		
2,4,6-Tribromophenol (S)	76	%		07/26/06 02:40	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015							
Diesel Fuel	ND	mg/kg	6.8	07/20/06 11:01	KBS	68334-30-5		
n-Pentacosane (S)	85	%		07/20/06 11:01	KBS	629-99-2		
Date Extracted	07/19/06			07/19/06				

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015							
Gasoline	ND	mg/kg	5.7	07/25/06 22:13	DHW			
4-Bromofluorobenzene (S)	69	%		07/25/06 22:13	DHW	460-00-4		

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260							
Acetone	ND	ug/kg	110	07/24/06 17:07	DLK	67-64-1		
Benzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	71-43-2		
Bromobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	75-27-4		
Bromoform	ND	ug/kg	5.4	07/24/06 17:07	DLK	75-25-2		
Bromomethane	ND	ug/kg	11.	07/24/06 17:07	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	110	07/24/06 17:07	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	5.4	07/24/06 17:07	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	108-90-7		
Chloroethane	ND	ug/kg	11.	07/24/06 17:07	DLK	75-00-3		
Chloroform	ND	ug/kg	5.4	07/24/06 17:07	DLK	67-66-3		

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208231
Client Sample ID: INDB2 6-8

Project Sample Number: 92123456-002
Matrix: Soil

Date Collected: 07/17/06 17:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Chloromethane	ND	ug/kg	11.	07/24/06 17:07	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.4	07/24/06 17:07	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.4	07/24/06 17:07	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	07/24/06 17:07	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	07/24/06 17:07	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	07/24/06 17:07	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.4	07/24/06 17:07	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.4	07/24/06 17:07	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.4	07/24/06 17:07	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.4	07/24/06 17:07	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.4	07/24/06 17:07	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.4	07/24/06 17:07	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.4	07/24/06 17:07	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.4	07/24/06 17:07	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.4	07/24/06 17:07	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.4	07/24/06 17:07	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	07/24/06 17:07	DLK	87-68-3		
2-Hexanone	ND	ug/kg	54.	07/24/06 17:07	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	07/24/06 17:07	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.4	07/24/06 17:07	DLK	99-87-6		
Methylene chloride	ND	ug/kg	11.	07/24/06 17:07	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.	07/24/06 17:07	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.4	07/24/06 17:07	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.4	07/24/06 17:07	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	103-65-1		
Styrene	ND	ug/kg	5.4	07/24/06 17:07	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.4	07/24/06 17:07	DLK	127-18-4		
Toluene	ND	ug/kg	5.4	07/24/06 17:07	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	87-61-6		

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208231
Client Sample ID: INDB2 6-8

Project Sample Number: 92123456-002
Matrix: Soil

Date Collected: 07/17/06 17:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.4	07/24/06 17:07	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.4	07/24/06 17:07	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.4	07/24/06 17:07	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	07/24/06 17:07	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	54.	07/24/06 17:07	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	07/24/06 17:07	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	5.4	07/24/06 17:07	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	07/24/06 17:07	DLK			
o-Xylene	ND	ug/kg	5.4	07/24/06 17:07	DLK	95-47-6		
Toluene-d8 (S)	100	%		07/24/06 17:07	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		07/24/06 17:07	DLK	460-00-4		
Dibromofluoromethane (S)	90	%		07/24/06 17:07	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	91	%		07/24/06 17:07	DLK	17060-07-0		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208256
Client Sample ID: INDB3 4-6

Project Sample Number: 92123456-003
Matrix: Soil
Date Collected: 07/17/06 18:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
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Metals

Metals, Trace ICP		Prep/Method: EPA 3050 / EPA 6010						
Chromium	27.	mg/kg	0.24	07/25/06 19:03	SHB	7440-47-3		
Manganese	930	mg/kg	0.60	07/25/06 19:03	SHB	7439-96-5		
Nickel	3.5	mg/kg	0.60	07/25/06 19:03	SHB	7440-02-0		
Zinc	12.	mg/kg	1.2	07/25/06 19:03	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture		Method: % Moisture						
Percent Moisture	22.9	%		07/19/06 10:03	TNM			

GC/MS Semivolatiles

Semivolatile Organics		Prep/Method: EPA 3545 / EPA 8270						
Acenaphthene	ND	ug/kg	430	07/26/06 03:02	BET	83-32-9		
Acenaphthylene	ND	ug/kg	430	07/26/06 03:02	BET	208-96-8		
Anthracene	ND	ug/kg	430	07/26/06 03:02	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	430	07/26/06 03:02	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	430	07/26/06 03:02	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	430	07/26/06 03:02	BET	56-55-3		
Benzoic acid	ND	ug/kg	2100	07/26/06 03:02	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	430	07/26/06 03:02	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	860	07/26/06 03:02	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	430	07/26/06 03:02	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	430	07/26/06 03:02	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	430	07/26/06 03:02	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	860	07/26/06 03:02	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	860	07/26/06 03:02	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	430	07/26/06 03:02	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	430	07/26/06 03:02	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	430	07/26/06 03:02	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	430	07/26/06 03:02	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	430	07/26/06 03:02	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	430	07/26/06 03:02	BET	7005-72-3		
Chrysene	ND	ug/kg	430	07/26/06 03:02	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	430	07/26/06 03:02	BET	53-70-3		
Dibenzofuran	ND	ug/kg	430	07/26/06 03:02	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	430	07/26/06 03:02	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	430	07/26/06 03:02	BET	541-73-1		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208256
Client Sample ID: INDB3 4-6

Project Sample Number: 92123456-003
Matrix: Soil

Date Collected: 07/17/06 18:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,4-Dichlorobenzene	ND	ug/kg	430	07/26/06 03:02	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	860	07/26/06 03:02	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	430	07/26/06 03:02	BET	120-83-2		
Diethylphthalate	ND	ug/kg	430	07/26/06 03:02	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	430	07/26/06 03:02	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	430	07/26/06 03:02	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	430	07/26/06 03:02	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	430	07/26/06 03:02	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2100	07/26/06 03:02	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	430	07/26/06 03:02	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	430	07/26/06 03:02	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	430	07/26/06 03:02	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	430	07/26/06 03:02	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	430	07/26/06 03:02	BET	117-81-7		
Fluoranthene	ND	ug/kg	430	07/26/06 03:02	BET	206-44-0		
Fluorene	ND	ug/kg	430	07/26/06 03:02	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	430	07/26/06 03:02	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	430	07/26/06 03:02	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	430	07/26/06 03:02	BET	77-47-4		
Hexachloroethane	ND	ug/kg	430	07/26/06 03:02	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	430	07/26/06 03:02	BET	193-39-5		
Isophorone	ND	ug/kg	430	07/26/06 03:02	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	430	07/26/06 03:02	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	430	07/26/06 03:02	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	430	07/26/06 03:02	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	430	07/26/06 03:02	BET			
Naphthalene	ND	ug/kg	430	07/26/06 03:02	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2100	07/26/06 03:02	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2100	07/26/06 03:02	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2100	07/26/06 03:02	BET	100-01-6		
Nitrobenzene	ND	ug/kg	430	07/26/06 03:02	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	430	07/26/06 03:02	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2100	07/26/06 03:02	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	430	07/26/06 03:02	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	430	07/26/06 03:02	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2100	07/26/06 03:02	BET	87-86-5		
Phenanthrene	ND	ug/kg	430	07/26/06 03:02	BET	85-01-8		
Phenol	ND	ug/kg	430	07/26/06 03:02	BET	108-95-2		
Pyrene	ND	ug/kg	430	07/26/06 03:02	BET	129-00-0		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208256 Project Sample Number: 92123456-003 Date Collected: 07/17/06 18:00
Client Sample ID: INDB3 4-6 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	430	07/26/06 03:02	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	430	07/26/06 03:02	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	430	07/26/06 03:02	BET	88-06-2		
Nitrobenzene-d5 (S)	5	%		07/26/06 03:02	BET	4165-60-0	2	
2-Fluorobiphenyl (S)	41	%		07/26/06 03:02	BET	321-60-8		
Terphenyl-d14 (S)	72	%		07/26/06 03:02	BET	1718-51-0		
Phenol-d5 (S)	36	%		07/26/06 03:02	BET	4165-62-2	1	
2-Fluorophenol (S)	36	%		07/26/06 03:02	BET	367-12-4		
2,4,6-Tribromophenol (S)	68	%		07/26/06 03:02	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015 Prep/Method: EPA 3545 / EPA 8015

Diesel Fuel	ND	mg/kg	6.5	07/20/06 13:40	KBS	68334-30-5		
n-Pentacosane (S)	80	%		07/20/06 13:40	KBS	629-99-2		
Date Extracted	07/19/06			07/19/06				

GC Volatiles

GAS, Soil, North Carolina Method: EPA 8015

Gasoline	ND	mg/kg	4.7	07/25/06 23:36	DHW			
4-Bromofluorobenzene (S)	70	%		07/25/06 23:36	DHW	460-00-4		

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260

Acetone	ND	ug/kg	110	07/25/06 18:23	DLK	67-64-1		
Benzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	71-43-2		
Bromobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	75-27-4		
Bromoform	ND	ug/kg	5.3	07/25/06 18:23	DLK	75-25-2		
Bromomethane	ND	ug/kg	11.	07/25/06 18:23	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	110	07/25/06 18:23	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	5.3	07/25/06 18:23	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	108-90-7		
Chloroethane	ND	ug/kg	11.	07/25/06 18:23	DLK	75-00-3		
Chloroform	ND	ug/kg	5.3	07/25/06 18:23	DLK	67-66-3		

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208256
Client Sample ID: INDB3 4-6

Project Sample Number: 92123456-003
Matrix: Soil

Date Collected: 07/17/06 18:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Chloromethane	ND	ug/kg	11.	07/25/06 18:23	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.3	07/25/06 18:23	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.3	07/25/06 18:23	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	07/25/06 18:23	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	07/25/06 18:23	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	07/25/06 18:23	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.3	07/25/06 18:23	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.3	07/25/06 18:23	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.3	07/25/06 18:23	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.3	07/25/06 18:23	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.3	07/25/06 18:23	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.3	07/25/06 18:23	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.3	07/25/06 18:23	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.3	07/25/06 18:23	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.3	07/25/06 18:23	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.3	07/25/06 18:23	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	07/25/06 18:23	DLK	87-68-3		
2-Hexanone	ND	ug/kg	53.	07/25/06 18:23	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	07/25/06 18:23	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.3	07/25/06 18:23	DLK	99-87-6		
Methylene chloride	ND	ug/kg	11.	07/25/06 18:23	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.	07/25/06 18:23	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.3	07/25/06 18:23	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.3	07/25/06 18:23	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	103-65-1		
Styrene	ND	ug/kg	5.3	07/25/06 18:23	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.3	07/25/06 18:23	DLK	127-18-4		
Toluene	ND	ug/kg	5.3	07/25/06 18:23	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	87-61-6		

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208256
Client Sample ID: INDB3 4-6

Project Sample Number: 92123456-003
Matrix: Soil

Date Collected: 07/17/06 18:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.3	07/25/06 18:23	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.3	07/25/06 18:23	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.3	07/25/06 18:23	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	07/25/06 18:23	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	53.	07/25/06 18:23	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	07/25/06 18:23	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	5.3	07/25/06 18:23	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	07/25/06 18:23	DLK			
o-Xylene	ND	ug/kg	5.3	07/25/06 18:23	DLK	95-47-6		
Toluene-d8 (S)	104	%		07/25/06 18:23	DLK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		07/25/06 18:23	DLK	460-00-4		
Dibromofluoromethane (S)	96	%		07/25/06 18:23	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		07/25/06 18:23	DLK	17060-07-0		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208264 Project Sample Number: 92123456-004 Date Collected: 07/17/06 18:15
Client Sample ID: INDB4 4-6 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
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Metals

Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Chromium	31.	mg/kg	0.22	07/25/06 19:07	SHB	7440-47-3		
Manganese	490	mg/kg	0.55	07/25/06 19:07	SHB	7439-96-5		
Nickel	4.9	mg/kg	0.55	07/25/06 19:07	SHB	7440-02-0		
Zinc	18.	mg/kg	1.1	07/25/06 19:07	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	22.5	%		07/19/06 10:03	TNM			

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270							
Acenaphthene	ND	ug/kg	430	07/26/06 03:23	BET	83-32-9		
Acenaphthylene	ND	ug/kg	430	07/26/06 03:23	BET	208-96-8		
Anthracene	ND	ug/kg	430	07/26/06 03:23	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	430	07/26/06 03:23	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	430	07/26/06 03:23	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	430	07/26/06 03:23	BET	56-55-3		
Benzoic acid	ND	ug/kg	2100	07/26/06 03:23	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	430	07/26/06 03:23	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	850	07/26/06 03:23	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	430	07/26/06 03:23	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	430	07/26/06 03:23	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	430	07/26/06 03:23	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	850	07/26/06 03:23	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	850	07/26/06 03:23	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	430	07/26/06 03:23	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	430	07/26/06 03:23	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	430	07/26/06 03:23	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	430	07/26/06 03:23	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	430	07/26/06 03:23	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	430	07/26/06 03:23	BET	7005-72-3		
Chrysene	ND	ug/kg	430	07/26/06 03:23	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	430	07/26/06 03:23	BET	53-70-3		
Dibenzofuran	ND	ug/kg	430	07/26/06 03:23	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	430	07/26/06 03:23	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	430	07/26/06 03:23	BET	541-73-1		

Date: 07/31/06

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Lab Project Number: 92123456
Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208264 Project Sample Number: 92123456-004 Date Collected: 07/17/06 18:15
Client Sample ID: INDB4 4-6 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,4-Dichlorobenzene	ND	ug/kg	430	07/26/06 03:23	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	850	07/26/06 03:23	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	430	07/26/06 03:23	BET	120-83-2		
Diethylphthalate	ND	ug/kg	430	07/26/06 03:23	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	430	07/26/06 03:23	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	430	07/26/06 03:23	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	430	07/26/06 03:23	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	430	07/26/06 03:23	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2100	07/26/06 03:23	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	430	07/26/06 03:23	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	430	07/26/06 03:23	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	430	07/26/06 03:23	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	430	07/26/06 03:23	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	430	07/26/06 03:23	BET	117-81-7		
Fluoranthene	ND	ug/kg	430	07/26/06 03:23	BET	206-44-0		
Fluorene	ND	ug/kg	430	07/26/06 03:23	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	430	07/26/06 03:23	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	430	07/26/06 03:23	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	430	07/26/06 03:23	BET	77-47-4		
Hexachloroethane	ND	ug/kg	430	07/26/06 03:23	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	430	07/26/06 03:23	BET	193-39-5		
Isophorone	ND	ug/kg	430	07/26/06 03:23	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	430	07/26/06 03:23	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	430	07/26/06 03:23	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	430	07/26/06 03:23	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	430	07/26/06 03:23	BET			
Naphthalene	ND	ug/kg	430	07/26/06 03:23	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2100	07/26/06 03:23	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2100	07/26/06 03:23	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2100	07/26/06 03:23	BET	100-01-6		
Nitrobenzene	ND	ug/kg	430	07/26/06 03:23	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	430	07/26/06 03:23	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2100	07/26/06 03:23	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	430	07/26/06 03:23	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	430	07/26/06 03:23	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2100	07/26/06 03:23	BET	87-86-5		
Phenanthrene	ND	ug/kg	430	07/26/06 03:23	BET	85-01-8		
Phenol	ND	ug/kg	430	07/26/06 03:23	BET	108-95-2		
Pyrene	ND	ug/kg	430	07/26/06 03:23	BET	129-00-0		

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208264
Client Sample ID: INDB4 4-6

Project Sample Number: 92123456-004
Matrix: Soil

Date Collected: 07/17/06 18:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	430	07/26/06 03:23	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	430	07/26/06 03:23	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	430	07/26/06 03:23	BET	88-06-2		
Nitrobenzene-d5 (S)	7	%		07/26/06 03:23	BET	4165-60-0	2	
2-Fluorobiphenyl (S)	21	%		07/26/06 03:23	BET	321-60-8		
Terphenyl-d14 (S)	67	%		07/26/06 03:23	BET	1718-51-0		
Phenol-d5 (S)	20	%		07/26/06 03:23	BET	4165-62-2	1	
2-Fluorophenol (S)	20	%		07/26/06 03:23	BET	367-12-4		
2,4,6-Tribromophenol (S)	38	%		07/26/06 03:23	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015						
Diesel Fuel	ND	mg/kg	6.5	07/20/06 11:44	KBS	68334-30-5	
n-Pentacosane (S)	84	%		07/20/06 11:44	KBS	629-99-2	
Date Extracted	07/19/06			07/19/06			

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015					
Gasoline	ND	mg/kg	4.9	07/26/06 00:04	DHW	
4-Bromofluorobenzene (S)	68	%		07/26/06 00:04	DHW	460-00-4

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260					
Acetone	ND	ug/kg	98.	07/26/06 16:20	DLK	67-64-1
Benzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	71-43-2
Bromobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	108-86-1
Bromochloromethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	74-97-5
Bromodichloromethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	75-27-4
Bromoform	ND	ug/kg	4.9	07/26/06 16:20	DLK	75-25-2
Bromomethane	ND	ug/kg	9.8	07/26/06 16:20	DLK	74-83-9
2-Butanone (MEK)	ND	ug/kg	98.	07/26/06 16:20	DLK	78-93-3
n-Butylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	104-51-8
sec-Butylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	135-98-8
tert-Butylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	98-06-6
Carbon tetrachloride	ND	ug/kg	4.9	07/26/06 16:20	DLK	56-23-5
Chlorobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	108-90-7
Chloroethane	ND	ug/kg	9.8	07/26/06 16:20	DLK	75-00-3
Chloroform	ND	ug/kg	4.9	07/26/06 16:20	DLK	67-66-3

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208264
Client Sample ID: INDB4 4-6

Project Sample Number: 92123456-004
Matrix: Soil

Date Collected: 07/17/06 18:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Chloromethane	ND	ug/kg	9.8	07/26/06 16:20	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	4.9	07/26/06 16:20	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	4.9	07/26/06 16:20	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	07/26/06 16:20	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	07/26/06 16:20	DLK	106-93-4		
Dibromomethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	9.8	07/26/06 16:20	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	4.9	07/26/06 16:20	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	4.9	07/26/06 16:20	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	4.9	07/26/06 16:20	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	4.9	07/26/06 16:20	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	4.9	07/26/06 16:20	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	4.9	07/26/06 16:20	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	4.9	07/26/06 16:20	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	4.9	07/26/06 16:20	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	4.9	07/26/06 16:20	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	4.9	07/26/06 16:20	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	07/26/06 16:20	DLK	87-68-3		
2-Hexanone	ND	ug/kg	49.	07/26/06 16:20	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	07/26/06 16:20	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	4.9	07/26/06 16:20	DLK	99-87-6		
Methylene chloride	ND	ug/kg	4.9	07/26/06 16:20	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.	07/26/06 16:20	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	4.9	07/26/06 16:20	DLK	1634-04-4		
Naphthalene	ND	ug/kg	4.9	07/26/06 16:20	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	103-65-1		
Styrene	ND	ug/kg	4.9	07/26/06 16:20	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	4.9	07/26/06 16:20	DLK	127-18-4		
Toluene	ND	ug/kg	4.9	07/26/06 16:20	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	87-61-6		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208264
Client Sample ID: INDB4 4-6

Project Sample Number: 92123456-004
Matrix: Soil

Date Collected: 07/17/06 18:15
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	79-00-5		
Trichloroethene	ND	ug/kg	4.9	07/26/06 16:20	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	4.9	07/26/06 16:20	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	4.9	07/26/06 16:20	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	07/26/06 16:20	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	49.	07/26/06 16:20	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	9.8	07/26/06 16:20	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	4.9	07/26/06 16:20	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	9.8	07/26/06 16:20	DLK			
o-Xylene	ND	ug/kg	4.9	07/26/06 16:20	DLK	95-47-6		
Toluene-d8 (S)	103	%		07/26/06 16:20	DLK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		07/26/06 16:20	DLK	460-00-4		
Dibromofluoromethane (S)	91	%		07/26/06 16:20	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	%		07/26/06 16:20	DLK	17060-07-0		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208272 Project Sample Number: 92123456-005 Date Collected: 07/17/06 18:30
Client Sample ID: INDB5 4-6 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
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Metals

Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Chromium	23.	mg/kg	0.25	07/25/06 19:21	SHB	7440-47-3		
Manganese	430	mg/kg	0.63	07/25/06 19:21	SHB	7439-96-5		
Nickel	5.8	mg/kg	0.63	07/25/06 19:21	SHB	7440-02-0		
Zinc	19.	mg/kg	1.3	07/25/06 19:21	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	26.4	%		07/19/06 10:04	TNM			

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270							
Acenaphthene	ND	ug/kg	450	07/26/06 03:45	BET	83-32-9		
Acenaphthylene	ND	ug/kg	450	07/26/06 03:45	BET	208-96-8		
Anthracene	ND	ug/kg	450	07/26/06 03:45	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	450	07/26/06 03:45	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	450	07/26/06 03:45	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	450	07/26/06 03:45	BET	56-55-3		
Benzoic acid	ND	ug/kg	2200	07/26/06 03:45	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	450	07/26/06 03:45	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	900	07/26/06 03:45	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	450	07/26/06 03:45	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	450	07/26/06 03:45	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	450	07/26/06 03:45	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	900	07/26/06 03:45	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	900	07/26/06 03:45	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	450	07/26/06 03:45	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	450	07/26/06 03:45	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	450	07/26/06 03:45	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	450	07/26/06 03:45	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	450	07/26/06 03:45	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	450	07/26/06 03:45	BET	7005-72-3		
Chrysene	ND	ug/kg	450	07/26/06 03:45	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	450	07/26/06 03:45	BET	53-70-3		
Dibenzofuran	ND	ug/kg	450	07/26/06 03:45	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	450	07/26/06 03:45	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	450	07/26/06 03:45	BET	541-73-1		

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208272
Client Sample ID: INDB5 4-6

Project Sample Number: 92123456-005
Matrix: Soil

Date Collected: 07/17/06 18:30
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,4-Dichlorobenzene	ND	ug/kg	450	07/26/06 03:45	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	900	07/26/06 03:45	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	450	07/26/06 03:45	BET	120-83-2		
Diethylphthalate	ND	ug/kg	450	07/26/06 03:45	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	450	07/26/06 03:45	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	450	07/26/06 03:45	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	450	07/26/06 03:45	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	450	07/26/06 03:45	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2200	07/26/06 03:45	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	450	07/26/06 03:45	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	450	07/26/06 03:45	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	450	07/26/06 03:45	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	450	07/26/06 03:45	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	450	07/26/06 03:45	BET	117-81-7		
Fluoranthene	ND	ug/kg	450	07/26/06 03:45	BET	206-44-0		
Fluorene	ND	ug/kg	450	07/26/06 03:45	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	450	07/26/06 03:45	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	450	07/26/06 03:45	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	450	07/26/06 03:45	BET	77-47-4		
Hexachloroethane	ND	ug/kg	450	07/26/06 03:45	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	450	07/26/06 03:45	BET	193-39-5		
Isophorone	ND	ug/kg	450	07/26/06 03:45	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	450	07/26/06 03:45	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	450	07/26/06 03:45	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	450	07/26/06 03:45	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	450	07/26/06 03:45	BET			
Naphthalene	ND	ug/kg	450	07/26/06 03:45	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2200	07/26/06 03:45	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2200	07/26/06 03:45	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2200	07/26/06 03:45	BET	100-01-6		
Nitrobenzene	ND	ug/kg	450	07/26/06 03:45	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	450	07/26/06 03:45	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2200	07/26/06 03:45	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	450	07/26/06 03:45	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	450	07/26/06 03:45	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2200	07/26/06 03:45	BET	87-86-5		
Phenanthrene	ND	ug/kg	450	07/26/06 03:45	BET	85-01-8		
Phenol	ND	ug/kg	450	07/26/06 03:45	BET	108-95-2		
Pyrene	ND	ug/kg	450	07/26/06 03:45	BET	129-00-0		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208272 Project Sample Number: 92123456-005 Date Collected: 07/17/06 18:30
Client Sample ID: INDB5 4-6 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	450	07/26/06 03:45	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	450	07/26/06 03:45	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	450	07/26/06 03:45	BET	88-06-2		
Nitrobenzene-d5 (S)	2	%		07/26/06 03:45	BET	4165-60-0	2	
2-Fluorobiphenyl (S)	21	%		07/26/06 03:45	BET	321-60-8		
Terphenyl-d14 (S)	62	%		07/26/06 03:45	BET	1718-51-0		
Phenol-d5 (S)	20	%		07/26/06 03:45	BET	4165-62-2	1	
2-Fluorophenol (S)	23	%		07/26/06 03:45	BET	367-12-4		
2,4,6-Tribromophenol (S)	45	%		07/26/06 03:45	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015						
Diesel Fuel	ND	mg/kg	6.8	07/20/06 11:23	KBS	68334-30-5	
n-Pentacosane (S)	72	%		07/20/06 11:23	KBS	629-99-2	
Date Extracted	07/19/06			07/19/06			

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015					
Gasoline	ND	mg/kg	5.0	07/26/06 00:32	DHW	
4-Bromofluorobenzene (S)	68	%		07/26/06 00:32	DHW	460-00-4

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260					
Acetone	ND	ug/kg	110	07/25/06 18:42	DLK	67-64-1
Benzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	71-43-2
Bromobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	108-86-1
Bromochloromethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	74-97-5
Bromodichloromethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	75-27-4
Bromoform	ND	ug/kg	5.7	07/25/06 18:42	DLK	75-25-2
Bromomethane	ND	ug/kg	11.	07/25/06 18:42	DLK	74-83-9
2-Butanone (MEK)	ND	ug/kg	110	07/25/06 18:42	DLK	78-93-3
n-Butylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	104-51-8
sec-Butylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	135-98-8
tert-Butylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	98-06-6
Carbon tetrachloride	ND	ug/kg	5.7	07/25/06 18:42	DLK	56-23-5
Chlorobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	108-90-7
Chloroethane	ND	ug/kg	11.	07/25/06 18:42	DLK	75-00-3
Chloroform	ND	ug/kg	5.7	07/25/06 18:42	DLK	67-66-3

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208272
Client Sample ID: INDB5 4-6

Project Sample Number: 92123456-005
Matrix: Soil

Date Collected: 07/17/06 18:30
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Chloromethane	ND	ug/kg	11.	07/25/06 18:42	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.7	07/25/06 18:42	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.7	07/25/06 18:42	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	07/25/06 18:42	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	07/25/06 18:42	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	07/25/06 18:42	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.7	07/25/06 18:42	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.7	07/25/06 18:42	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.7	07/25/06 18:42	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.7	07/25/06 18:42	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.7	07/25/06 18:42	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.7	07/25/06 18:42	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.7	07/25/06 18:42	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.7	07/25/06 18:42	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.7	07/25/06 18:42	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.7	07/25/06 18:42	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	07/25/06 18:42	DLK	87-68-3		
2-Hexanone	ND	ug/kg	57.	07/25/06 18:42	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	07/25/06 18:42	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.7	07/25/06 18:42	DLK	99-87-6		
Methylene chloride	ND	ug/kg	11.	07/25/06 18:42	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.	07/25/06 18:42	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.7	07/25/06 18:42	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.7	07/25/06 18:42	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	103-65-1		
Styrene	ND	ug/kg	5.7	07/25/06 18:42	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.7	07/25/06 18:42	DLK	127-18-4		
Toluene	ND	ug/kg	5.7	07/25/06 18:42	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	87-61-6		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208272
Client Sample ID: INDB5 4-6

Project Sample Number: 92123456-005
Matrix: Soil

Date Collected: 07/17/06 18:30
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.7	07/25/06 18:42	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.7	07/25/06 18:42	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.7	07/25/06 18:42	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	07/25/06 18:42	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	57.	07/25/06 18:42	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	07/25/06 18:42	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	5.7	07/25/06 18:42	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	07/25/06 18:42	DLK			
o-Xylene	ND	ug/kg	5.7	07/25/06 18:42	DLK	95-47-6		
Toluene-d8 (S)	102	%		07/25/06 18:42	DLK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		07/25/06 18:42	DLK	460-00-4		
Dibromofluoromethane (S)	89	%		07/25/06 18:42	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		07/25/06 18:42	DLK	17060-07-0		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208280
Client Sample ID: INDB6 4-6

Project Sample Number: 92123456-006
Matrix: Soil

Date Collected: 07/17/06 18:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
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Metals

Metals, Trace ICP		Prep/Method: EPA 3050 / EPA 6010						
Chromium	43.	mg/kg	0.25	07/25/06 19:25	SHB	7440-47-3		
Manganese	2300	mg/kg	6.3	07/25/06 19:25	SHB	7439-96-5		
Nickel	5.5	mg/kg	0.63	07/25/06 19:25	SHB	7440-02-0		
Zinc	21.	mg/kg	1.3	07/25/06 19:25	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture		Method: % Moisture						
Percent Moisture	25.0	%		07/19/06 10:04	TNM			

GC/MS Semivolatiles

Semivolatile Organics		Prep/Method: EPA 3545 / EPA 8270						
Acenaphthene	ND	ug/kg	440	07/26/06 04:07	BET	83-32-9		
Acenaphthylene	ND	ug/kg	440	07/26/06 04:07	BET	208-96-8		
Anthracene	ND	ug/kg	440	07/26/06 04:07	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	440	07/26/06 04:07	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	440	07/26/06 04:07	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	440	07/26/06 04:07	BET	56-55-3		
Benzoic acid	ND	ug/kg	2200	07/26/06 04:07	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	440	07/26/06 04:07	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	880	07/26/06 04:07	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	440	07/26/06 04:07	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	440	07/26/06 04:07	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	440	07/26/06 04:07	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	880	07/26/06 04:07	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	880	07/26/06 04:07	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	440	07/26/06 04:07	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	440	07/26/06 04:07	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	440	07/26/06 04:07	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	440	07/26/06 04:07	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	440	07/26/06 04:07	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	440	07/26/06 04:07	BET	7005-72-3		
Chrysene	ND	ug/kg	440	07/26/06 04:07	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	440	07/26/06 04:07	BET	53-70-3		
Dibenzofuran	ND	ug/kg	440	07/26/06 04:07	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	440	07/26/06 04:07	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	440	07/26/06 04:07	BET	541-73-1		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208280
Client Sample ID: INDB6 4-6

Project Sample Number: 92123456-006
Matrix: Soil

Date Collected: 07/17/06 18:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,4-Dichlorobenzene	ND	ug/kg	440	07/26/06 04:07	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	880	07/26/06 04:07	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	440	07/26/06 04:07	BET	120-83-2		
Diethylphthalate	ND	ug/kg	440	07/26/06 04:07	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	440	07/26/06 04:07	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	440	07/26/06 04:07	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	440	07/26/06 04:07	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	440	07/26/06 04:07	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2200	07/26/06 04:07	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	440	07/26/06 04:07	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	440	07/26/06 04:07	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	440	07/26/06 04:07	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	440	07/26/06 04:07	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	440	07/26/06 04:07	BET	117-81-7		
Fluoranthene	ND	ug/kg	440	07/26/06 04:07	BET	206-44-0		
Fluorene	ND	ug/kg	440	07/26/06 04:07	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	440	07/26/06 04:07	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	440	07/26/06 04:07	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	440	07/26/06 04:07	BET	77-47-4		
Hexachloroethane	ND	ug/kg	440	07/26/06 04:07	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	440	07/26/06 04:07	BET	193-39-5		
Isophorone	ND	ug/kg	440	07/26/06 04:07	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	440	07/26/06 04:07	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	440	07/26/06 04:07	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	440	07/26/06 04:07	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	440	07/26/06 04:07	BET			
Naphthalene	ND	ug/kg	440	07/26/06 04:07	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2200	07/26/06 04:07	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2200	07/26/06 04:07	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2200	07/26/06 04:07	BET	100-01-6		
Nitrobenzene	ND	ug/kg	440	07/26/06 04:07	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	440	07/26/06 04:07	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2200	07/26/06 04:07	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	440	07/26/06 04:07	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	440	07/26/06 04:07	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2200	07/26/06 04:07	BET	87-86-5		
Phenanthrene	ND	ug/kg	440	07/26/06 04:07	BET	85-01-8		
Phenol	ND	ug/kg	440	07/26/06 04:07	BET	108-95-2		
Pyrene	ND	ug/kg	440	07/26/06 04:07	BET	129-00-0		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208280
Client Sample ID: INDB6 4-6

Project Sample Number: 92123456-006
Matrix: Soil

Date Collected: 07/17/06 18:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	440	07/26/06 04:07	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	440	07/26/06 04:07	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	440	07/26/06 04:07	BET	88-06-2		
Nitrobenzene-d5 (S)	2	%		07/26/06 04:07	BET	4165-60-0	2	
2-Fluorobiphenyl (S)	24	%		07/26/06 04:07	BET	321-60-8		
Terphenyl-d14 (S)	58	%		07/26/06 04:07	BET	1718-51-0		
Phenol-d5 (S)	33	%		07/26/06 04:07	BET	4165-62-2	1	
2-Fluorophenol (S)	38	%		07/26/06 04:07	BET	367-12-4		
2,4,6-Tribromophenol (S)	55	%		07/26/06 04:07	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015
Diesel Fuel	ND mg/kg 6.7 07/20/06 14:02 KBS 68334-30-5
n-Pentacosane (S)	103 % 07/20/06 14:02 KBS 629-99-2
Date Extracted	07/19/06 07/19/06

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015
Gasoline	ND mg/kg 5.0 07/26/06 01:00 DHW
4-Bromofluorobenzene (S)	70 % 07/26/06 01:00 DHW 460-00-4

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260
Acetone	ND ug/kg 110 07/25/06 19:00 DLK 67-64-1
Benzene	ND ug/kg 5.4 07/25/06 19:00 DLK 71-43-2
Bromobenzene	ND ug/kg 5.4 07/25/06 19:00 DLK 108-86-1
Bromochloromethane	ND ug/kg 5.4 07/25/06 19:00 DLK 74-97-5
Bromodichloromethane	ND ug/kg 5.4 07/25/06 19:00 DLK 75-27-4
Bromoform	ND ug/kg 5.4 07/25/06 19:00 DLK 75-25-2
Bromomethane	ND ug/kg 11. 07/25/06 19:00 DLK 74-83-9
2-Butanone (MEK)	ND ug/kg 110 07/25/06 19:00 DLK 78-93-3
n-Butylbenzene	ND ug/kg 5.4 07/25/06 19:00 DLK 104-51-8
sec-Butylbenzene	ND ug/kg 5.4 07/25/06 19:00 DLK 135-98-8
tert-Butylbenzene	ND ug/kg 5.4 07/25/06 19:00 DLK 98-06-6
Carbon tetrachloride	ND ug/kg 5.4 07/25/06 19:00 DLK 56-23-5
Chlorobenzene	ND ug/kg 5.4 07/25/06 19:00 DLK 108-90-7
Chloroethane	ND ug/kg 11. 07/25/06 19:00 DLK 75-00-3
Chloroform	ND ug/kg 5.4 07/25/06 19:00 DLK 67-66-3

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208280
Client Sample ID: INDB6 4-6

Project Sample Number: 92123456-006
Matrix: Soil

Date Collected: 07/17/06 18:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Chloromethane	ND	ug/kg	11.	07/25/06 19:00	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.4	07/25/06 19:00	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.4	07/25/06 19:00	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	07/25/06 19:00	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	07/25/06 19:00	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	07/25/06 19:00	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.4	07/25/06 19:00	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.4	07/25/06 19:00	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.4	07/25/06 19:00	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.4	07/25/06 19:00	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.4	07/25/06 19:00	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.4	07/25/06 19:00	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.4	07/25/06 19:00	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.4	07/25/06 19:00	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.4	07/25/06 19:00	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.4	07/25/06 19:00	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	07/25/06 19:00	DLK	87-68-3		
2-Hexanone	ND	ug/kg	54.	07/25/06 19:00	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	07/25/06 19:00	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.4	07/25/06 19:00	DLK	99-87-6		
Methylene chloride	ND	ug/kg	5.4	07/25/06 19:00	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.	07/25/06 19:00	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.4	07/25/06 19:00	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.4	07/25/06 19:00	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	103-65-1		
Styrene	ND	ug/kg	5.4	07/25/06 19:00	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.4	07/25/06 19:00	DLK	127-18-4		
Toluene	ND	ug/kg	5.4	07/25/06 19:00	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	87-61-6		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208280
Client Sample ID: INDB6 4-6

Project Sample Number: 92123456-006
Matrix: Soil

Date Collected: 07/17/06 18:45
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.4	07/25/06 19:00	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.4	07/25/06 19:00	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.4	07/25/06 19:00	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	07/25/06 19:00	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	54.	07/25/06 19:00	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	07/25/06 19:00	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	5.4	07/25/06 19:00	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	07/25/06 19:00	DLK			
o-Xylene	ND	ug/kg	5.4	07/25/06 19:00	DLK	95-47-6		
Toluene-d8 (S)	97	%		07/25/06 19:00	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		07/25/06 19:00	DLK	460-00-4		
Dibromofluoromethane (S)	86	%		07/25/06 19:00	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	87	%		07/25/06 19:00	DLK	17060-07-0		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208298
Client Sample ID: INDB7 6-8

Project Sample Number: 92123456-007
Matrix: Soil

Date Collected: 07/17/06 19:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Metals								
Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010							
Chromium	24.	mg/kg	0.23	07/25/06 19:30	SHB	7440-47-3		
Manganese	260	mg/kg	0.58	07/25/06 19:30	SHB	7439-96-5		
Nickel	5.4	mg/kg	0.58	07/25/06 19:30	SHB	7440-02-0		
Zinc	20.	mg/kg	1.2	07/25/06 19:30	SHB	7440-66-6		
Date Digested	07/21/06 14:00			07/21/06 14:00				

Wet Chemistry

Percent Moisture	Method: % Moisture							
Percent Moisture	23.6	%		07/19/06 10:04	TNM			

GC/MS Semivolatiles

Semivolatile Organics								
Prep/Method: EPA 3545 / EPA 8270								
Acenaphthene	ND	ug/kg	430	07/26/06 04:29	BET	83-32-9		
Acenaphthylene	ND	ug/kg	430	07/26/06 04:29	BET	208-96-8		
Anthracene	ND	ug/kg	430	07/26/06 04:29	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	430	07/26/06 04:29	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	430	07/26/06 04:29	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	430	07/26/06 04:29	BET	56-55-3		
Benzoic acid	ND	ug/kg	2200	07/26/06 04:29	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	430	07/26/06 04:29	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	860	07/26/06 04:29	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	430	07/26/06 04:29	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	430	07/26/06 04:29	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	430	07/26/06 04:29	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	860	07/26/06 04:29	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	860	07/26/06 04:29	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	430	07/26/06 04:29	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	430	07/26/06 04:29	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	430	07/26/06 04:29	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	430	07/26/06 04:29	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	430	07/26/06 04:29	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	430	07/26/06 04:29	BET	7005-72-3		
Chrysene	ND	ug/kg	430	07/26/06 04:29	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	430	07/26/06 04:29	BET	53-70-3		
Dibenzofuran	ND	ug/kg	430	07/26/06 04:29	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	430	07/26/06 04:29	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	430	07/26/06 04:29	BET	541-73-1		

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208298
Client Sample ID: INDB7 6-8

Project Sample Number: 92123456-007
Matrix: Soil

Date Collected: 07/17/06 19:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,4-Dichlorobenzene	ND	ug/kg	430	07/26/06 04:29	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	860	07/26/06 04:29	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	430	07/26/06 04:29	BET	120-83-2		
Diethylphthalate	ND	ug/kg	430	07/26/06 04:29	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	430	07/26/06 04:29	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	430	07/26/06 04:29	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	430	07/26/06 04:29	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	430	07/26/06 04:29	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	2200	07/26/06 04:29	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	430	07/26/06 04:29	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	430	07/26/06 04:29	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	430	07/26/06 04:29	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	430	07/26/06 04:29	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	430	07/26/06 04:29	BET	117-81-7		
Fluoranthene	ND	ug/kg	430	07/26/06 04:29	BET	206-44-0		
Fluorene	ND	ug/kg	430	07/26/06 04:29	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	430	07/26/06 04:29	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	430	07/26/06 04:29	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	430	07/26/06 04:29	BET	77-47-4		
Hexachloroethane	ND	ug/kg	430	07/26/06 04:29	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	430	07/26/06 04:29	BET	193-39-5		
Isophorone	ND	ug/kg	430	07/26/06 04:29	BET	78-59-1		
1-Methylnaphthalene	ND	ug/kg	430	07/26/06 04:29	BET	90-12-0		
2-Methylnaphthalene	ND	ug/kg	430	07/26/06 04:29	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	430	07/26/06 04:29	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	430	07/26/06 04:29	BET			
Naphthalene	ND	ug/kg	430	07/26/06 04:29	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2200	07/26/06 04:29	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2200	07/26/06 04:29	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2200	07/26/06 04:29	BET	100-01-6		
Nitrobenzene	ND	ug/kg	430	07/26/06 04:29	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	430	07/26/06 04:29	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2200	07/26/06 04:29	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	430	07/26/06 04:29	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	430	07/26/06 04:29	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2200	07/26/06 04:29	BET	87-86-5		
Phenanthrene	ND	ug/kg	430	07/26/06 04:29	BET	85-01-8		
Phenol	ND	ug/kg	430	07/26/06 04:29	BET	108-95-2		
Pyrene	ND	ug/kg	430	07/26/06 04:29	BET	129-00-0		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208298 Project Sample Number: 92123456-007 Date Collected: 07/17/06 19:00
Client Sample ID: INDB7 6-8 Matrix: Soil Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	430	07/26/06 04:29	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	430	07/26/06 04:29	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	430	07/26/06 04:29	BET	88-06-2		
Nitrobenzene-d5 (S)	2	%		07/26/06 04:29	BET	4165-60-0	2	
2-Fluorobiphenyl (S)	43	%		07/26/06 04:29	BET	321-60-8		
Terphenyl-d14 (S)	70	%		07/26/06 04:29	BET	1718-51-0		
Phenol-d5 (S)	35	%		07/26/06 04:29	BET	4165-62-2	1	
2-Fluorophenol (S)	36	%		07/26/06 04:29	BET	367-12-4		
2,4,6-Tribromophenol (S)	68	%		07/26/06 04:29	BET	118-79-6		
Date Extracted	07/19/06			07/19/06				

GC Semivolatiles

TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015						
Diesel Fuel	19.	mg/kg	6.5	07/20/06 16:45	KBS	68334-30-5	
n-Pentacosane (S)	115	%		07/20/06 16:45	KBS	629-99-2	
Date Extracted	07/19/06			07/19/06			

GC Volatiles

GAS, Soil, North Carolina	Method: EPA 8015					
Gasoline	ND	mg/kg	4.8	07/26/06 01:27	DHW	
4-Bromofluorobenzene (S)	70	%		07/26/06 01:27	DHW	460-00-4

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260					
Acetone	ND	ug/kg	110	07/25/06 19:18	DLK	67-64-1
Benzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	71-43-2
Bromobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	108-86-1
Bromochloromethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	74-97-5
Bromodichloromethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	75-27-4
Bromoform	ND	ug/kg	5.3	07/25/06 19:18	DLK	75-25-2
Bromomethane	ND	ug/kg	11.	07/25/06 19:18	DLK	74-83-9
2-Butanone (MEK)	ND	ug/kg	110	07/25/06 19:18	DLK	78-93-3
n-Butylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	104-51-8
sec-Butylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	135-98-8
tert-Butylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	98-06-6
Carbon tetrachloride	ND	ug/kg	5.3	07/25/06 19:18	DLK	56-23-5
Chlorobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	108-90-7
Chloroethane	ND	ug/kg	11.	07/25/06 19:18	DLK	75-00-3
Chloroform	ND	ug/kg	5.3	07/25/06 19:18	DLK	67-66-3

Date: 07/31/06

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208298
Client Sample ID: INDB7 6-8

Project Sample Number: 92123456-007
Matrix: Soil

Date Collected: 07/17/06 19:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
Chloromethane	ND	ug/kg	11.	07/25/06 19:18	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.3	07/25/06 19:18	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.3	07/25/06 19:18	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	07/25/06 19:18	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	07/25/06 19:18	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	07/25/06 19:18	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.3	07/25/06 19:18	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.3	07/25/06 19:18	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.3	07/25/06 19:18	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.3	07/25/06 19:18	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.3	07/25/06 19:18	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.3	07/25/06 19:18	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.3	07/25/06 19:18	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.3	07/25/06 19:18	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.3	07/25/06 19:18	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.3	07/25/06 19:18	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	07/25/06 19:18	DLK	87-68-3		
2-Hexanone	ND	ug/kg	53.	07/25/06 19:18	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	07/25/06 19:18	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.3	07/25/06 19:18	DLK	99-87-6		
Methylene chloride	ND	ug/kg	5.3	07/25/06 19:18	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.	07/25/06 19:18	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.3	07/25/06 19:18	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.3	07/25/06 19:18	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	103-65-1		
Styrene	ND	ug/kg	5.3	07/25/06 19:18	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.3	07/25/06 19:18	DLK	127-18-4		
Toluene	ND	ug/kg	5.3	07/25/06 19:18	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	87-61-6		

Date: 07/31/06

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

Lab Sample No: 927208298
Client Sample ID: INDB7 6-8

Project Sample Number: 92123456-007
Matrix: Soil

Date Collected: 07/17/06 19:00
Date Received: 07/18/06 17:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.3	07/25/06 19:18	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.3	07/25/06 19:18	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.3	07/25/06 19:18	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	07/25/06 19:18	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	53.	07/25/06 19:18	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	07/25/06 19:18	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	5.3	07/25/06 19:18	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	07/25/06 19:18	DLK			
o-Xylene	ND	ug/kg	5.3	07/25/06 19:18	DLK	95-47-6		
Toluene-d8 (S)	102	%		07/25/06 19:18	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		07/25/06 19:18	DLK	460-00-4		
Dibromofluoromethane (S)	83	%		07/25/06 19:18	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	86	%		07/25/06 19:18	DLK	17060-07-0		

Date: 07/31/06

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate
- [1] Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of the two remaining acid surrogates.
- [2] Base/neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QC Batch: 162507
QC Batch Method: EPA 3545
Associated Lab Samples: 927208215 927208280
Analysis Method: EPA 8015
Analysis Description: TPH in Soil by 3545/8015
927208231 927208256 927208264 927208272
927208298

METHOD BLANK: 927212092

Associated Lab Samples: 927208215 927208231 927208256 927208264 927208272 927208280 927208298

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	77		

LABORATORY CONTROL SAMPLE: 927212100

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Diesel Fuel	mg/kg	166.70	133.0	80	
n-Pentacosane (S)				103	

QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QC Batch: 163076	Analysis Method: EPA 8015				
QC Batch Method: EPA 8015	Analysis Description: GAS, Soil, North Carolina				
Associated Lab Samples:	927208215	927208231	927208256	927208264	927208272
	927208280	927208298			

METHOD BLANK: 927233080

Associated Lab Samples: 927208215 927208231 927208256 927208264 927208272 927208280 927208298

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	59		

LABORATORY CONTROL SAMPLE: 927233098

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Gasoline	mg/kg	25.00	30.93	124	
4-Bromofluorobenzene (S)				64	

MATRIX SPIKE: 927233106

<u>Parameter</u>	<u>Units</u>	<u>927218263 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MS % Rec</u>	<u>Footnotes</u>
Gasoline	mg/kg	0.3996	22.40	26.05	114	
4-Bromofluorobenzene (S)					56	

SAMPLE DUPLICATE: 927233114

<u>Parameter</u>	<u>Units</u>	<u>927218271 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
Gasoline	mg/kg	ND	ND	NC	
4-Bromofluorobenzene (S)	%	64	58		

QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QC Batch: 162544	Analysis Method: EPA 8270				
QC Batch Method: EPA 3545	Analysis Description: Semivolatile Organics				
Associated Lab Samples:	927208215	927208231	927208256	927208264	927208272
	927208280	927208298			

METHOD BLANK: 927214247

Associated Lab Samples: 927208215 927208231 927208256 927208264 927208272 927208280 927208298

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Acenaphthene	ug/kg	ND	330	
Acenaphthylene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Benzo(k)fluoranthene	ug/kg	ND	330	
Benzo(b)fluoranthene	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Benzoic acid	ug/kg	ND	1600	
Benzo(g,h,i)perylene	ug/kg	ND	330	
Benzyl alcohol	ug/kg	ND	660	
Benzo(a)pyrene	ug/kg	ND	330	
4-Bromophenylphenyl ether	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
4-Chloro-3-methylphenol	ug/kg	ND	660	
4-Chloroaniline	ug/kg	ND	660	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	
bis(2-Chloroethyl) ether	ug/kg	ND	330	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	
2-Chloronaphthalene	ug/kg	ND	330	
2-Chlorophenol	ug/kg	ND	330	
4-Chlorophenylphenyl ether	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
Dibenz(a,h)anthracene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
1,3-Dichlorobenzene	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
3,3'-Dichlorobenzidine	ug/kg	ND	660	
2,4-Dichlorophenol	ug/kg	ND	330	
Diethylphthalate	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927214247

Associated Lab Samples: 927208215 927208231 927208256 927208264 927208272 927208280 927208298

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Dimethylphthalate	ug/kg	ND	330	
Di-n-butylphthalate	ug/kg	ND	330	
4,6-Dinitro-2-methylphenol	ug/kg	ND	330	
2,4-Dinitrophenol	ug/kg	ND	1600	
2,4-Dinitrotoluene	ug/kg	ND	330	
2,6-Dinitrotoluene	ug/kg	ND	330	
Di-n-octylphthalate	ug/kg	ND	330	
1,2-Diphenylhydrazine	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
Hexachloro-1,3-butadiene	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Hexachlorocyclopentadiene	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	
Isophorone	ug/kg	ND	330	
1-Methylnaphthalene	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
2-Methylphenol (o-Cresol)	ug/kg	ND	330	
3&4-Methylphenol	ug/kg	ND	330	
Naphthalene	ug/kg	ND	330	
2-Nitroaniline	ug/kg	ND	1600	
3-Nitroaniline	ug/kg	ND	1600	
4-Nitroaniline	ug/kg	ND	1600	
Nitrobenzene	ug/kg	ND	330	
2-Nitrophenol	ug/kg	ND	330	
4-Nitrophenol	ug/kg	ND	1600	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	330	
Pentachlorophenol	ug/kg	ND	1600	
Phenanthrene	ug/kg	ND	330	
Phenol	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
1,2,4-Trichlorobenzene	ug/kg	ND	330	
2,4,5-Trichlorophenol	ug/kg	ND	330	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927214247

Associated Lab Samples: 927208215 927208231 927208256 927208264 927208272 927208280 927208298

<u>Parameter</u>	<u>Units</u>	Blank	Reporting	<u>Footnotes</u>
		<u>Result</u>	<u>Limit</u>	
2,4,6-Trichlorophenol	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	48		
2-Fluorobiphenyl (S)	%	55		
Terphenyl-d14 (S)	%	71		
Phenol-d5 (S)	%	56		
2-Fluorophenol (S)	%	62		
2,4,6-Tribromophenol (S)	%	85		

LABORATORY CONTROL SAMPLE: 927214254

<u>Parameter</u>	<u>Units</u>	Spike	LCS	LCS	<u>Footnotes</u>
		<u>Conc.</u>	<u>Result</u>	<u>% Rec</u>	
Acenaphthene	ug/kg	1667.00	1092	66	
Acenaphthylene	ug/kg	1667.00	1135	68	
Anthracene	ug/kg	1667.00	1253	75	
Benzo(k)fluoranthene	ug/kg	1667.00	1288	77	
Benzo(b)fluoranthene	ug/kg	1667.00	1619	97	
Benzo(a)anthracene	ug/kg	1667.00	1239	74	
Benzoic acid	ug/kg	1667.00	786.5	47	
Benzo(g,h,i)perylene	ug/kg	1667.00	366.8	22	
Benzyl alcohol	ug/kg	1667.00	1268	76	
Benzo(a)pyrene	ug/kg	1667.00	1419	85	
4-Bromophenylphenyl ether	ug/kg	1667.00	1658	100	
Butylbenzylphthalate	ug/kg	1667.00	1098	66	
4-Chloro-3-methylphenol	ug/kg	1667.00	1080	65	
4-Chloroaniline	ug/kg	1667.00	1476	89	
bis(2-Chloroethoxy)methane	ug/kg	1667.00	887.5	53	
bis(2-Chloroethyl) ether	ug/kg	1667.00	1106	66	
bis(2-Chloroisopropyl) ether	ug/kg	1667.00	2440	146	1
2-Chloronaphthalene	ug/kg	1667.00	1097	66	
2-Chlorophenol	ug/kg	1667.00	1206	72	
4-Chlorophenylphenyl ether	ug/kg	1667.00	1374	82	
Chrysene	ug/kg	1667.00	1240	74	
Dibenz(a,h)anthracene	ug/kg	1667.00	495.7	30	
Dibenzofuran	ug/kg	1667.00	1179	71	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927214254

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
1,2-Dichlorobenzene	ug/kg	1667.00	1119	67	
1,3-Dichlorobenzene	ug/kg	1667.00	1076	65	
1,4-Dichlorobenzene	ug/kg	1667.00	1109	67	
3,3'-Dichlorobenzidine	ug/kg	3333.00	910.7	27	
2,4-Dichlorophenol	ug/kg	1667.00	809.0	48	
Diethylphthalate	ug/kg	1667.00	1286	77	
2,4-Dimethylphenol	ug/kg	1667.00	771.3	46	
Dimethylphthalate	ug/kg	1667.00	1253	75	
Di-n-butylphthalate	ug/kg	1667.00	1253	75	
4,6-Dinitro-2-methylphenol	ug/kg	1667.00	1426	86	
2,4-Dinitrophenol	ug/kg	1667.00	1412	85	
2,4-Dinitrotoluene	ug/kg	1667.00	1441	86	
2,6-Dinitrotoluene	ug/kg	1667.00	1417	85	
Di-n-octylphthalate	ug/kg	1667.00	1028	62	
1,2-Diphenylhydrazine	ug/kg	1667.00	1114	67	
bis(2-Ethylhexyl)phthalate	ug/kg	1667.00	888.5	53	
Fluoranthene	ug/kg	1667.00	1343	81	
Fluorene	ug/kg	1667.00	1159	70	
Hexachloro-1,3-butadiene	ug/kg	1667.00	849.8	51	
Hexachlorobenzene	ug/kg	1667.00	1776	107	
Hexachlorocyclopentadiene	ug/kg	1667.00	871.2	52	
Hexachloroethane	ug/kg	1667.00	1154	69	
Indeno(1,2,3-cd)pyrene	ug/kg	1667.00	481.6	29	
Isophorone	ug/kg	1667.00	1459	88	
1-Methylnaphthalene	ug/kg	1667.00	804.4	48	
2-Methylnaphthalene	ug/kg	1667.00	813.2	49	
2-Methylphenol (o-Cresol)	ug/kg	1667.00	1212	73	
3&4-Methylphenol	ug/kg	1667.00	1186	71	
Naphthalene	ug/kg	1667.00	910.2	55	
2-Nitroaniline	ug/kg	1667.00	1423	85	
3-Nitroaniline	ug/kg	1667.00	1574	94	
4-Nitroaniline	ug/kg	1667.00	1529	92	
Nitrobenzene	ug/kg	1667.00	873.0	52	
2-Nitrophenol	ug/kg	1667.00	903.8	54	
4-Nitrophenol	ug/kg	1667.00	1350	81	
N-Nitroso-di-n-propylamine	ug/kg	1667.00	1188	71	
N-Nitrosodiphenylamine	ug/kg	1667.00	1358	82	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927214254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Pentachlorophenol	ug/kg	1667.00	1651	99	
Phenanthrene	ug/kg	1667.00	1199	72	
Phenol	ug/kg	1667.00	1122	67	
Pyrene	ug/kg	1667.00	1088	65	
1,2,4-Trichlorobenzene	ug/kg	1667.00	812.9	49	
2,4,5-Trichlorophenol	ug/kg	1667.00	1416	85	
2,4,6-Trichlorophenol	ug/kg	1667.00	1205	72	
Nitrobenzene-d5 (S)				47	
2-Fluorobiphenyl (S)				61	
Terphenyl-d14 (S)				74	
Phenol-d5 (S)				63	
2-Fluorophenol (S)				66	
2,4,6-Tribromophenol (S)				102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927214262 927214270

Parameter	Units	927205666	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Acenaphthene	ug/kg	0	1726.00	1285	1236	74	72	4	
4-Chloro-3-methylphenol	ug/kg	0	1726.00	1244	1270	72	74	2	
2-Chlorophenol	ug/kg	0	1726.00	1226	1248	71	72	2	
1,4-Dichlorobenzene	ug/kg	0	1726.00	1090	1087	63	63	0	
2,4-Dinitrotoluene	ug/kg	0	1726.00	1569	1539	91	89	2	
4-Nitrophenol	ug/kg	0	1726.00	1411	1406	82	82	0	
N-Nitroso-di-n-propylamine	ug/kg	0	1726.00	1320	1338	76	78	1	
Pentachlorophenol	ug/kg	0	1726.00	2096	2116	121	123	1	
Phenol	ug/kg	0	1726.00	1181	1203	68	70	2	
Pyrene	ug/kg	0	1726.00	1188	1117	69	65	6	
1,2,4-Trichlorobenzene	ug/kg	0	1726.00	889.5	868.0	52	50	2	
Nitrobenzene-d5 (S)						49	49		
2-Fluorobiphenyl (S)						72	70		
Terphenyl-d14 (S)						79	74		
Phenol-d5 (S)						66	66		
2-Fluorophenol (S)						67	67		
2,4,6-Tribromophenol (S)						111	107		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927229187

Associated Lab Samples: 927208215 927208231

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	5.1	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927229187

Associated Lab Samples: 927208215 927208231

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	95		
Dibromofluoromethane (S)	%	100		
1,2-Dichloroethane-d4 (S)	%	102		

LABORATORY CONTROL SAMPLE: 927229195

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Acetone	ug/kg	100.00	109.1	109	
Benzene	ug/kg	50.00	55.31	111	
Bromobenzene	ug/kg	50.00	53.33	107	
Bromochloromethane	ug/kg	50.00	53.84	108	
Bromodichloromethane	ug/kg	50.00	53.80	108	
Bromoform	ug/kg	50.00	50.04	100	
Bromomethane	ug/kg	50.00	54.92	110	
2-Butanone (MEK)	ug/kg	100.00	110.1	110	
n-Butylbenzene	ug/kg	50.00	50.60	101	
sec-Butylbenzene	ug/kg	50.00	51.45	103	
tert-Butylbenzene	ug/kg	50.00	53.30	107	
Carbon tetrachloride	ug/kg	50.00	56.48	113	
Chlorobenzene	ug/kg	50.00	52.75	106	
Chloroethane	ug/kg	50.00	52.88	106	
Chloroform	ug/kg	50.00	53.96	108	
Chloromethane	ug/kg	50.00	46.77	94	
2-Chlorotoluene	ug/kg	50.00	51.48	103	
4-Chlorotoluene	ug/kg	50.00	51.00	102	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	56.71	113	
Dibromochloromethane	ug/kg	50.00	52.35	105	
1,2-Dibromoethane (EDB)	ug/kg	50.00	54.54	109	
Dibromomethane	ug/kg	50.00	50.05	100	
1,2-Dichlorobenzene	ug/kg	50.00	50.53	101	
1,3-Dichlorobenzene	ug/kg	50.00	52.38	105	
1,4-Dichlorobenzene	ug/kg	50.00	49.52	99	
Dichlorodifluoromethane	ug/kg	50.00	54.32	109	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927229195

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
1,1-Dichloroethane	ug/kg	50.00	52.83	106	
1,2-Dichloroethane	ug/kg	50.00	54.53	109	
1,1-Dichloroethene	ug/kg	50.00	59.14	118	
cis-1,2-Dichloroethene	ug/kg	50.00	52.04	104	
trans-1,2-Dichloroethene	ug/kg	50.00	58.15	116	
1,2-Dichloropropane	ug/kg	50.00	53.92	108	
1,3-Dichloropropane	ug/kg	50.00	51.30	103	
2,2-Dichloropropane	ug/kg	50.00	53.76	108	
1,1-Dichloropropene	ug/kg	50.00	49.92	100	
cis-1,3-Dichloropropene	ug/kg	50.00	49.42	99	
trans-1,3-Dichloropropene	ug/kg	50.00	49.26	98	
Diisopropyl ether	ug/kg	50.00	53.11	106	
Ethylbenzene	ug/kg	50.00	53.42	107	
Hexachloro-1,3-butadiene	ug/kg	50.00	58.00	116	
2-Hexanone	ug/kg	100.00	107.8	108	
Isopropylbenzene (Cumene)	ug/kg	50.00	52.42	105	
p-Isopropyltoluene	ug/kg	50.00	48.83	98	
Methylene chloride	ug/kg	50.00	50.77	102	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	108.8	109	
Methyl-tert-butyl ether	ug/kg	50.00	55.33	111	
Naphthalene	ug/kg	50.00	55.58	111	
n-Propylbenzene	ug/kg	50.00	52.03	104	
Styrene	ug/kg	50.00	55.59	111	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	52.23	104	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	55.22	110	
Tetrachloroethene	ug/kg	50.00	49.82	100	
Toluene	ug/kg	50.00	53.04	106	
1,2,3-Trichlorobenzene	ug/kg	50.00	64.17	128	
1,2,4-Trichlorobenzene	ug/kg	50.00	57.65	115	
1,1,1-Trichloroethane	ug/kg	50.00	51.17	102	
1,1,2-Trichloroethane	ug/kg	50.00	53.29	107	
Trichloroethene	ug/kg	50.00	51.70	103	
Trichlorofluoromethane	ug/kg	50.00	50.00	100	
1,2,3-Trichloropropane	ug/kg	50.00	51.73	103	
1,2,4-Trimethylbenzene	ug/kg	50.00	48.55	97	
1,3,5-Trimethylbenzene	ug/kg	50.00	49.71	99	
Vinyl acetate	ug/kg	100.00	92.83	93	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927229195

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Vinyl chloride	ug/kg	50.00	52.72	105	
Xylene (Total)	ug/kg	150.00	154.2	103	
m&p-Xylene	ug/kg	100.00	103.9	104	
o-Xylene	ug/kg	50.00	50.32	101	
Toluene-d8 (S)				102	
4-Bromofluorobenzene (S)				97	
Dibromofluoromethane (S)				103	
1,2-Dichloroethane-d4 (S)				102	

MATRIX SPIKE: 927231365

Parameter	Units	927208215	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/kg	0	52.88	53.57	101	
Chlorobenzene	ug/kg	0	52.88	52.74	100	
1,1-Dichloroethene	ug/kg	0	52.88	50.48	96	
Toluene	ug/kg	0	52.88	54.92	104	
Trichloroethene	ug/kg	0	52.88	54.99	104	
Toluene-d8 (S)					102	
4-Bromofluorobenzene (S)					94	
Dibromofluoromethane (S)					89	
1,2-Dichloroethane-d4 (S)					90	

SAMPLE DUPLICATE: 927231357

Parameter	Units	927205674	DUP	RPD	Footnotes
		Result	Result		
Acetone	ug/kg	ND	ND	NC	
Benzene	ug/kg	ND	ND	NC	
Bromobenzene	ug/kg	ND	ND	NC	
Bromochloromethane	ug/kg	ND	ND	NC	
Bromodichloromethane	ug/kg	ND	ND	NC	
Bromoform	ug/kg	ND	ND	NC	
Bromomethane	ug/kg	ND	ND	NC	
2-Butanone (MEK)	ug/kg	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927231357

Parameter	Units	927205674	DUP	RPD	Footnotes
		Result	Result		
n-Butylbenzene	ug/kg	ND	ND	NC	
sec-Butylbenzene	ug/kg	ND	ND	NC	
tert-Butylbenzene	ug/kg	ND	ND	NC	
Carbon tetrachloride	ug/kg	ND	ND	NC	
Chlorobenzene	ug/kg	ND	ND	NC	
Chloroethane	ug/kg	ND	ND	NC	
Chloroform	ug/kg	ND	ND	NC	
Chloromethane	ug/kg	ND	ND	NC	
2-Chlorotoluene	ug/kg	ND	ND	NC	
4-Chlorotoluene	ug/kg	ND	ND	NC	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND	NC	
Dibromochloromethane	ug/kg	ND	ND	NC	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND	NC	
Dibromomethane	ug/kg	ND	ND	NC	
1,2-Dichlorobenzene	ug/kg	ND	ND	NC	
1,3-Dichlorobenzene	ug/kg	ND	ND	NC	
1,4-Dichlorobenzene	ug/kg	ND	ND	NC	
Dichlorodifluoromethane	ug/kg	ND	ND	NC	
1,1-Dichloroethane	ug/kg	ND	ND	NC	
1,2-Dichloroethane	ug/kg	ND	ND	NC	
1,1-Dichloroethene	ug/kg	ND	ND	NC	
cis-1,2-Dichloroethene	ug/kg	ND	ND	NC	
trans-1,2-Dichloroethene	ug/kg	ND	ND	NC	
1,2-Dichloropropane	ug/kg	ND	ND	NC	
1,3-Dichloropropane	ug/kg	ND	ND	NC	
2,2-Dichloropropane	ug/kg	ND	ND	NC	
1,1-Dichloropropene	ug/kg	ND	ND	NC	
cis-1,3-Dichloropropene	ug/kg	ND	ND	NC	
trans-1,3-Dichloropropene	ug/kg	ND	ND	NC	
Diisopropyl ether	ug/kg	ND	ND	NC	
Ethylbenzene	ug/kg	ND	ND	NC	
Hexachloro-1,3-butadiene	ug/kg	ND	ND	NC	
2-Hexanone	ug/kg	ND	ND	NC	
Isopropylbenzene (Cumene)	ug/kg	ND	ND	NC	
p-Isopropyltoluene	ug/kg	ND	ND	NC	
Methylene chloride	ug/kg	ND	9.700	24	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927231357

Parameter	Units	927205674	DUP	RPD	Footnotes
		Result	Result		
Methyl-tert-butyl ether	ug/kg	ND	ND	NC	
Naphthalene	ug/kg	ND	ND	NC	
n-Propylbenzene	ug/kg	ND	ND	NC	
Styrene	ug/kg	ND	ND	NC	
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND	NC	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	NC	
Tetrachloroethene	ug/kg	ND	ND	NC	
Toluene	ug/kg	ND	ND	NC	
1,2,3-Trichlorobenzene	ug/kg	ND	ND	NC	
1,2,4-Trichlorobenzene	ug/kg	ND	ND	NC	
1,1,1-Trichloroethane	ug/kg	ND	ND	NC	
1,1,2-Trichloroethane	ug/kg	ND	ND	NC	
Trichloroethene	ug/kg	ND	ND	NC	
Trichlorofluoromethane	ug/kg	ND	ND	NC	
1,2,3-Trichloropropane	ug/kg	ND	ND	NC	
1,2,4-Trimethylbenzene	ug/kg	ND	ND	NC	
1,3,5-Trimethylbenzene	ug/kg	ND	ND	NC	
Vinyl acetate	ug/kg	ND	ND	NC	
Vinyl chloride	ug/kg	ND	ND	NC	
Xylene (Total)	ug/kg	ND	ND	NC	
m&p-Xylene	ug/kg	ND	ND	NC	
o-Xylene	ug/kg	ND	ND	NC	
Toluene-d8 (S)	%	100	107		
4-Bromofluorobenzene (S)	%	93	87		
Dibromofluoromethane (S)	%	90	95		
1,2-Dichloroethane-d4 (S)	%	91	94		

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927232231

Associated Lab Samples: 927208256 927208272 927208280 927208298

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927232231

Associated Lab Samples: 927208256 927208272 927208280 927208298

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Toluene-d8 (S)	%	106		
4-Bromofluorobenzene (S)	%	90		
Dibromofluoromethane (S)	%	101		
1,2-Dichloroethane-d4 (S)	%	106		

LABORATORY CONTROL SAMPLE: 927232249

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Acetone	ug/kg	100.00	94.53	94	
Benzene	ug/kg	50.00	55.02	110	
Bromobenzene	ug/kg	50.00	55.17	110	
Bromochloromethane	ug/kg	50.00	56.27	113	
Bromodichloromethane	ug/kg	50.00	56.91	114	
Bromoform	ug/kg	50.00	47.49	95	
Bromomethane	ug/kg	50.00	53.60	107	
2-Butanone (MEK)	ug/kg	100.00	100.8	101	
n-Butylbenzene	ug/kg	50.00	51.99	104	
sec-Butylbenzene	ug/kg	50.00	52.69	105	
tert-Butylbenzene	ug/kg	50.00	54.53	109	
Carbon tetrachloride	ug/kg	50.00	59.29	119	
Chlorobenzene	ug/kg	50.00	54.98	110	
Chloroethane	ug/kg	50.00	54.70	109	
Chloroform	ug/kg	50.00	55.65	111	
Chloromethane	ug/kg	50.00	45.00	90	
2-Chlorotoluene	ug/kg	50.00	53.12	106	
4-Chlorotoluene	ug/kg	50.00	53.29	107	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	49.37	99	
Dibromochloromethane	ug/kg	50.00	55.35	111	
1,2-Dibromoethane (EDB)	ug/kg	50.00	55.91	112	
Dibromomethane	ug/kg	50.00	56.37	113	
1,2-Dichlorobenzene	ug/kg	50.00	53.80	108	
1,3-Dichlorobenzene	ug/kg	50.00	54.02	108	
1,4-Dichlorobenzene	ug/kg	50.00	52.36	105	
Dichlorodifluoromethane	ug/kg	50.00	53.13	106	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927232249

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
1,1-Dichloroethane	ug/kg	50.00	56.09	112	
1,2-Dichloroethane	ug/kg	50.00	53.75	107	
1,1-Dichloroethene	ug/kg	50.00	61.64	123	
cis-1,2-Dichloroethene	ug/kg	50.00	53.10	106	
trans-1,2-Dichloroethene	ug/kg	50.00	57.12	114	
1,2-Dichloropropane	ug/kg	50.00	54.23	108	
1,3-Dichloropropane	ug/kg	50.00	52.61	105	
2,2-Dichloropropane	ug/kg	50.00	54.83	110	
1,1-Dichloropropene	ug/kg	50.00	53.11	106	
cis-1,3-Dichloropropene	ug/kg	50.00	49.19	98	
trans-1,3-Dichloropropene	ug/kg	50.00	47.39	95	
Diisopropyl ether	ug/kg	50.00	52.07	104	
Ethylbenzene	ug/kg	50.00	56.97	114	
Hexachloro-1,3-butadiene	ug/kg	50.00	57.92	116	
2-Hexanone	ug/kg	100.00	108.6	109	
Isopropylbenzene (Cumene)	ug/kg	50.00	57.27	115	
p-Isopropyltoluene	ug/kg	50.00	51.26	103	
Methylene chloride	ug/kg	50.00	57.26	115	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	99.89	100	
Methyl-tert-butyl ether	ug/kg	50.00	52.66	105	
Naphthalene	ug/kg	50.00	48.89	98	
n-Propylbenzene	ug/kg	50.00	54.98	110	
Styrene	ug/kg	50.00	59.48	119	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	53.53	107	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	52.85	106	
Tetrachloroethene	ug/kg	50.00	54.56	109	
Toluene	ug/kg	50.00	55.94	112	
1,2,3-Trichlorobenzene	ug/kg	50.00	60.04	120	
1,2,4-Trichlorobenzene	ug/kg	50.00	55.67	111	
1,1,1-Trichloroethane	ug/kg	50.00	50.75	101	
1,1,2-Trichloroethane	ug/kg	50.00	56.14	112	
Trichloroethene	ug/kg	50.00	52.35	105	
Trichlorofluoromethane	ug/kg	50.00	54.08	108	
1,2,3-Trichloropropane	ug/kg	50.00	49.97	100	
1,2,4-Trimethylbenzene	ug/kg	50.00	49.85	100	
1,3,5-Trimethylbenzene	ug/kg	50.00	51.45	103	
Vinyl acetate	ug/kg	100.00	73.51	74	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927232249

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Vinyl chloride	ug/kg	50.00	53.36	107	
Xylene (Total)	ug/kg	150.00	172.4	115	
m&p-Xylene	ug/kg	100.00	116.1	116	
o-Xylene	ug/kg	50.00	56.30	113	
Toluene-d8 (S)				101	
4-Bromofluorobenzene (S)				102	
Dibromofluoromethane (S)				101	
1,2-Dichloroethane-d4 (S)				108	

MATRIX SPIKE: 927235697

Parameter	Units	927208314	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/kg	0	69.51	77.93	112	
Chlorobenzene	ug/kg	0	69.51	80.27	116	
1,1-Dichloroethene	ug/kg	0	69.51	80.35	116	
Toluene	ug/kg	0	69.51	80.64	116	
Trichloroethene	ug/kg	0	69.51	79.61	114	
Toluene-d8 (S)					102	
4-Bromofluorobenzene (S)					98	
Dibromofluoromethane (S)					89	
1,2-Dichloroethane-d4 (S)					89	

SAMPLE DUPLICATE: 927235689

Parameter	Units	927208256	DUP	RPD	Footnotes
		Result	Result		
Acetone	ug/kg	ND	ND	NC	
Benzene	ug/kg	ND	ND	NC	
Bromobenzene	ug/kg	ND	ND	NC	
Bromochloromethane	ug/kg	ND	ND	NC	
Bromodichloromethane	ug/kg	ND	ND	NC	
Bromoform	ug/kg	ND	ND	NC	
Bromomethane	ug/kg	ND	ND	NC	
2-Butanone (MEK)	ug/kg	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927235689

Parameter	Units	927208256	DUP	RPD	Footnotes
		Result	Result		
n-Butylbenzene	ug/kg	ND	ND	NC	
sec-Butylbenzene	ug/kg	ND	ND	NC	
tert-Butylbenzene	ug/kg	ND	ND	NC	
Carbon tetrachloride	ug/kg	ND	ND	NC	
Chlorobenzene	ug/kg	ND	ND	NC	
Chloroethane	ug/kg	ND	ND	NC	
Chloroform	ug/kg	ND	ND	NC	
Chloromethane	ug/kg	ND	ND	NC	
2-Chlorotoluene	ug/kg	ND	ND	NC	
4-Chlorotoluene	ug/kg	ND	ND	NC	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND	NC	
Dibromochloromethane	ug/kg	ND	ND	NC	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND	NC	
Dibromomethane	ug/kg	ND	ND	NC	
1,2-Dichlorobenzene	ug/kg	ND	ND	NC	
1,3-Dichlorobenzene	ug/kg	ND	ND	NC	
1,4-Dichlorobenzene	ug/kg	ND	ND	NC	
Dichlorodifluoromethane	ug/kg	ND	ND	NC	
1,1-Dichloroethane	ug/kg	ND	ND	NC	
1,2-Dichloroethane	ug/kg	ND	ND	NC	
1,1-Dichloroethene	ug/kg	ND	ND	NC	
cis-1,2-Dichloroethene	ug/kg	ND	ND	NC	
trans-1,2-Dichloroethene	ug/kg	ND	ND	NC	
1,2-Dichloropropane	ug/kg	ND	ND	NC	
1,3-Dichloropropane	ug/kg	ND	ND	NC	
2,2-Dichloropropane	ug/kg	ND	ND	NC	
1,1-Dichloropropene	ug/kg	ND	ND	NC	
cis-1,3-Dichloropropene	ug/kg	ND	ND	NC	
trans-1,3-Dichloropropene	ug/kg	ND	ND	NC	
Diisopropyl ether	ug/kg	ND	ND	NC	
Ethylbenzene	ug/kg	ND	ND	NC	
Hexachloro-1,3-butadiene	ug/kg	ND	ND	NC	
2-Hexanone	ug/kg	ND	ND	NC	
Isopropylbenzene (Cumene)	ug/kg	ND	ND	NC	
p-Isopropyltoluene	ug/kg	ND	ND	NC	
Methylene chloride	ug/kg	ND	ND	NC	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927235689

Parameter	Units	927208256	DUP	RPD	Footnotes
		Result	Result		
Methyl-tert-butyl ether	ug/kg	ND	ND	NC	
Naphthalene	ug/kg	ND	ND	NC	
n-Propylbenzene	ug/kg	ND	ND	NC	
Styrene	ug/kg	ND	ND	NC	
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND	NC	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	NC	
Tetrachloroethene	ug/kg	ND	ND	NC	
Toluene	ug/kg	ND	ND	NC	
1,2,3-Trichlorobenzene	ug/kg	ND	ND	NC	
1,2,4-Trichlorobenzene	ug/kg	ND	ND	NC	
1,1,1-Trichloroethane	ug/kg	ND	ND	NC	
1,1,2-Trichloroethane	ug/kg	ND	ND	NC	
Trichloroethene	ug/kg	ND	ND	NC	
Trichlorofluoromethane	ug/kg	ND	ND	NC	
1,2,3-Trichloropropane	ug/kg	ND	ND	NC	
1,2,4-Trimethylbenzene	ug/kg	ND	ND	NC	
1,3,5-Trimethylbenzene	ug/kg	ND	ND	NC	
Vinyl acetate	ug/kg	ND	ND	NC	
Vinyl chloride	ug/kg	ND	ND	NC	
Xylene (Total)	ug/kg	ND	ND	NC	
m&p-Xylene	ug/kg	ND	ND	NC	
o-Xylene	ug/kg	ND	ND	NC	
Toluene-d8 (S)	%	104	111		
4-Bromofluorobenzene (S)	%	91	93		
Dibromofluoromethane (S)	%	96	94		
1,2-Dichloroethane-d4 (S)	%	107	95		

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QC Batch: 163204
QC Batch Method: EPA 8260
Associated Lab Samples:

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs 5035/8260 low level
927208264

METHOD BLANK: 927236125
Associated Lab Samples: 927208264

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Acetone	ug/kg	ND	100	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
2-Butanone (MEK)	ug/kg	ND	100	
n-Butylbenzene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927236125

Associated Lab Samples: 927208264

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

Date: 07/31/06

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

METHOD BLANK: 927236125

Associated Lab Samples: 927208264

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Toluene-d8 (S)	%	104		
4-Bromofluorobenzene (S)	%	95		
Dibromofluoromethane (S)	%	94		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE: 927236133

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Acetone	ug/kg	100.00	79.44	79	
Benzene	ug/kg	50.00	47.14	94	
Bromobenzene	ug/kg	50.00	44.68	89	
Bromochloromethane	ug/kg	50.00	44.84	90	
Bromodichloromethane	ug/kg	50.00	48.30	97	
Bromoform	ug/kg	50.00	42.37	85	
Bromomethane	ug/kg	50.00	54.78	110	
2-Butanone (MEK)	ug/kg	100.00	84.71	85	
n-Butylbenzene	ug/kg	50.00	48.76	98	
sec-Butylbenzene	ug/kg	50.00	49.35	99	
tert-Butylbenzene	ug/kg	50.00	48.24	96	
Carbon tetrachloride	ug/kg	50.00	52.40	105	
Chlorobenzene	ug/kg	50.00	45.82	92	
Chloroethane	ug/kg	50.00	53.50	107	
Chloroform	ug/kg	50.00	47.39	95	
Chloromethane	ug/kg	50.00	43.03	86	
2-Chlorotoluene	ug/kg	50.00	48.09	96	
4-Chlorotoluene	ug/kg	50.00	47.70	95	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	42.43	85	
Dibromochloromethane	ug/kg	50.00	42.11	84	
1,2-Dibromoethane (EDB)	ug/kg	50.00	43.36	87	
Dibromomethane	ug/kg	50.00	47.67	95	
1,2-Dichlorobenzene	ug/kg	50.00	48.88	98	
1,3-Dichlorobenzene	ug/kg	50.00	48.95	98	
1,4-Dichlorobenzene	ug/kg	50.00	47.49	95	
Dichlorodifluoromethane	ug/kg	50.00	57.62	115	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927236133

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
1,1-Dichloroethane	ug/kg	50.00	43.61	87	
1,2-Dichloroethane	ug/kg	50.00	42.97	86	
1,1-Dichloroethene	ug/kg	50.00	47.62	95	
cis-1,2-Dichloroethene	ug/kg	50.00	42.95	86	
trans-1,2-Dichloroethene	ug/kg	50.00	46.30	93	
1,2-Dichloropropane	ug/kg	50.00	49.46	99	
1,3-Dichloropropane	ug/kg	50.00	42.76	86	
2,2-Dichloropropane	ug/kg	50.00	47.33	95	
1,1-Dichloropropene	ug/kg	50.00	46.43	93	
cis-1,3-Dichloropropene	ug/kg	50.00	46.12	92	
trans-1,3-Dichloropropene	ug/kg	50.00	44.25	88	
Diisopropyl ether	ug/kg	50.00	41.51	83	
Ethylbenzene	ug/kg	50.00	47.02	94	
Hexachloro-1,3-butadiene	ug/kg	50.00	54.61	109	
2-Hexanone	ug/kg	100.00	82.12	82	
Isopropylbenzene (Cumene)	ug/kg	50.00	46.72	93	
p-Isopropyltoluene	ug/kg	50.00	49.42	99	
Methylene chloride	ug/kg	50.00	42.09	84	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	85.42	85	
Methyl-tert-butyl ether	ug/kg	50.00	40.28	81	
Naphthalene	ug/kg	50.00	48.76	98	
n-Propylbenzene	ug/kg	50.00	50.77	102	
Styrene	ug/kg	50.00	47.80	96	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	44.84	90	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	40.84	82	
Tetrachloroethene	ug/kg	50.00	45.28	91	
Toluene	ug/kg	50.00	49.24	98	
1,2,3-Trichlorobenzene	ug/kg	50.00	52.58	105	
1,2,4-Trichlorobenzene	ug/kg	50.00	51.16	102	
1,1,1-Trichloroethane	ug/kg	50.00	43.03	86	
1,1,2-Trichloroethane	ug/kg	50.00	49.21	98	
Trichloroethene	ug/kg	50.00	48.52	97	
Trichlorofluoromethane	ug/kg	50.00	56.11	112	
1,2,3-Trichloropropane	ug/kg	50.00	41.93	84	
1,2,4-Trimethylbenzene	ug/kg	50.00	50.34	101	
1,3,5-Trimethylbenzene	ug/kg	50.00	48.75	98	
Vinyl acetate	ug/kg	100.00	64.94	65	

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

LABORATORY CONTROL SAMPLE: 927236133

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Vinyl chloride	ug/kg	50.00	50.52	101	
Xylene (Total)	ug/kg	150.00	140.3	94	
m&p-Xylene	ug/kg	100.00	94.51	94	
o-Xylene	ug/kg	50.00	45.77	92	
Toluene-d8 (S)				109	
4-Bromofluorobenzene (S)				98	
Dibromofluoromethane (S)				100	
1,2-Dichloroethane-d4 (S)				94	

MATRIX SPIKE: 927241612

Parameter	Units	927212407	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/kg	0	49.54	46.01	93	
Chlorobenzene	ug/kg	0	49.54	46.38	94	
1,1-Dichloroethene	ug/kg	0	49.54	40.85	82	
Toluene	ug/kg	0	49.54	46.61	94	
Trichloroethene	ug/kg	0	49.54	47.03	95	
Toluene-d8 (S)					100	
4-Bromofluorobenzene (S)					96	
Dibromofluoromethane (S)					92	
1,2-Dichloroethane-d4 (S)					87	

SAMPLE DUPLICATE: 927241604

Parameter	Units	927208264	DUP	RPD	Footnotes
		Result	Result		
Acetone	ug/kg	ND	ND	NC	
Benzene	ug/kg	ND	ND	NC	
Bromobenzene	ug/kg	ND	ND	NC	
Bromochloromethane	ug/kg	ND	ND	NC	
Bromodichloromethane	ug/kg	ND	ND	NC	
Bromoform	ug/kg	ND	ND	NC	
Bromomethane	ug/kg	ND	ND	NC	
2-Butanone (MEK)	ug/kg	ND	ND	NC	

QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927241604

Parameter	Units	927208264	DUP	RPD	Footnotes
		Result	Result		
n-Butylbenzene	ug/kg	ND	ND	NC	
sec-Butylbenzene	ug/kg	ND	ND	NC	
tert-Butylbenzene	ug/kg	ND	ND	NC	
Carbon tetrachloride	ug/kg	ND	ND	NC	
Chlorobenzene	ug/kg	ND	ND	NC	
Chloroethane	ug/kg	ND	ND	NC	
Chloroform	ug/kg	ND	ND	NC	
Chloromethane	ug/kg	ND	ND	NC	
2-Chlorotoluene	ug/kg	ND	ND	NC	
4-Chlorotoluene	ug/kg	ND	ND	NC	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND	NC	
Dibromochloromethane	ug/kg	ND	ND	NC	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND	NC	
Dibromomethane	ug/kg	ND	ND	NC	
1,2-Dichlorobenzene	ug/kg	ND	ND	NC	
1,3-Dichlorobenzene	ug/kg	ND	ND	NC	
1,4-Dichlorobenzene	ug/kg	ND	ND	NC	
Dichlorodifluoromethane	ug/kg	ND	ND	NC	
1,1-Dichloroethane	ug/kg	ND	ND	NC	
1,2-Dichloroethane	ug/kg	ND	ND	NC	
1,1-Dichloroethene	ug/kg	ND	ND	NC	
cis-1,2-Dichloroethene	ug/kg	ND	ND	NC	
trans-1,2-Dichloroethene	ug/kg	ND	ND	NC	
1,2-Dichloropropane	ug/kg	ND	ND	NC	
1,3-Dichloropropane	ug/kg	ND	ND	NC	
2,2-Dichloropropane	ug/kg	ND	ND	NC	
1,1-Dichloropropene	ug/kg	ND	ND	NC	
cis-1,3-Dichloropropene	ug/kg	ND	ND	NC	
trans-1,3-Dichloropropene	ug/kg	ND	ND	NC	
Diisopropyl ether	ug/kg	ND	ND	NC	
Ethylbenzene	ug/kg	ND	ND	NC	
Hexachloro-1,3-butadiene	ug/kg	ND	ND	NC	
2-Hexanone	ug/kg	ND	ND	NC	
Isopropylbenzene (Cumene)	ug/kg	ND	ND	NC	
p-Isopropyltoluene	ug/kg	ND	ND	NC	
Methylene chloride	ug/kg	ND	ND	NC	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND	NC	

Date: 07/31/06

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927241604

Parameter	Units	927208264	DUP	RPD	Footnotes
		Result	Result		
Methyl-tert-butyl ether	ug/kg	ND	ND	NC	
Naphthalene	ug/kg	ND	ND	NC	
n-Propylbenzene	ug/kg	ND	ND	NC	
Styrene	ug/kg	ND	ND	NC	
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND	NC	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	NC	
Tetrachloroethene	ug/kg	ND	ND	NC	
Toluene	ug/kg	ND	ND	NC	
1,2,3-Trichlorobenzene	ug/kg	ND	ND	NC	
1,2,4-Trichlorobenzene	ug/kg	ND	ND	NC	
1,1,1-Trichloroethane	ug/kg	ND	ND	NC	
1,1,2-Trichloroethane	ug/kg	ND	ND	NC	
Trichloroethene	ug/kg	ND	ND	NC	
Trichlorofluoromethane	ug/kg	ND	ND	NC	
1,2,3-Trichloropropane	ug/kg	ND	ND	NC	
1,2,4-Trimethylbenzene	ug/kg	ND	ND	NC	
1,3,5-Trimethylbenzene	ug/kg	ND	ND	NC	
Vinyl acetate	ug/kg	ND	ND	NC	
Vinyl chloride	ug/kg	ND	ND	NC	
Xylene (Total)	ug/kg	ND	ND	NC	
m&p-Xylene	ug/kg	ND	ND	NC	
o-Xylene	ug/kg	ND	ND	NC	
Toluene-d8 (S)	%	103	99		
4-Bromofluorobenzene (S)	%	100	98		
Dibromofluoromethane (S)	%	91	92		
1,2-Dichloroethane-d4 (S)	%	89	90		

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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QC Batch: 162595	Analysis Method: EPA 6010				
QC Batch Method: EPA 3050	Analysis Description: Metals, Trace ICP				
Associated Lab Samples:	927208215	927208231	927208256	927208264	927208272
	927208280	927208298			

METHOD BLANK: 927215657

Associated Lab Samples:	927208215	927208231	927208256	927208264	927208272	927208280	927208298
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<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Chromium	mg/kg	ND	0.20	
Manganese	mg/kg	ND	0.50	
Nickel	mg/kg	ND	0.50	
Zinc	mg/kg	ND	1.0	

LABORATORY CONTROL SAMPLE: 927215665

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Chromium	mg/kg	50.00	51.60	103	
Manganese	mg/kg	50.00	51.10	102	
Nickel	mg/kg	50.00	50.20	100	
Zinc	mg/kg	50.00	51.00	102	

MATRIX SPIKE: 927215673

<u>Parameter</u>	<u>Units</u>	<u>927213942 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MS % Rec</u>	<u>Footnotes</u>
Chromium	mg/kg	10.72	64.78	76.44	102	
Manganese	mg/kg	244.1	64.78	287.6	67	2
Nickel	mg/kg	3.514	64.78	65.82	96	
Zinc	mg/kg	29.55	64.78	93.02	98	

SAMPLE DUPLICATE: 927215681

<u>Parameter</u>	<u>Units</u>	<u>927213959 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

SAMPLE DUPLICATE: 927215681

<u>Parameter</u>	<u>Units</u>	927213959	DUP	<u>RPD</u>	<u>Footnotes</u>
		<u>Result</u>	<u>Result</u>		
Chromium	mg/kg	8.600	7.100	19	
Manganese	mg/kg	200.0	160.0	18	
Nickel	mg/kg	4.500	3.400	28	
Zinc	mg/kg	100.0	86.00	19	

Date: 07/31/06

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Asheville Certification IDs
 NC Wastewater 40
 NC Drinking Water 37712
 SC Environmental 99030
 FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
 NC Wastewater 12
 NC Drinking Water 37706
 SC 99006
 FL NELAP E87627



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QUALITY CONTROL DATA

Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QC Batch: 162456	Analysis Method: % Moisture				
QC Batch Method:	Analysis Description: Percent Moisture				
Associated Lab Samples:	927208231	927208256	927208264	927208272	927208280
	927208298				

SAMPLE DUPLICATE: 927209551

<u>Parameter</u>	<u>Units</u>	927208231 <u>Result</u>	DUP <u>Result</u>	<u>RPD</u>	<u>Footnotes</u>
Percent Moisture	%	26.30	27.00	3	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 92123456

Client Project ID: NCDOT 34951.1.1 Ind. Supply

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate
[1] Recovery falls outside of QC limits, however, this compound is not found in the associated samples.
[2] The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

APPENDIX E

GPS COORDINATES

APPENDIX E
GPS Coordinates of Borings
Drive Shaft Shop
Salisbury, Rowan County, North Carolina
WBS Element: 34951.1.1, TIP #: U-3459
Solutions-IES Project No. 3210.06A3.NDOT

Boring Number	Northing⁽¹⁾	Easting⁽¹⁾
INDB1	35.65488791	-80.48931515
INDB2	35.65549769	-80.48944498
INDB3	35.65548554	-80.48950978
INDB4	35.65553642	-80.48955806
INDB5	35.65553189	-80.48956409
INDB6	35.65557263	-80.48962660
INDB7	35.65563088	-80.48966526

NOTES:

(1) NAD84 GPS Coordinates

Borings located using field measurements.