



April 19 2010

North Carolina Department of Transportation

Professional Services Management Unit
1592 Mail Service Center
Raleigh, NC 27699-1592

Attention: **Mr. Ethan J. Caldwell, LG, EI** email: ejcaldwell@ncdot.gov

Reference: **Preliminary Site Assessment Reports**
Bridge 338 Over the Yadkin River/Railroad on SR 1190/SR 1402
Parcel #1 – Kenneth Haney Property - 204 E. Market Street
Parcel #2 – Verlie Vestal Property – 101 E. Main Street
Elkin, Surry County, North Carolina
NCDOT Project No. B-4820, WBS Element 38590.1.1
S&ME Project No. 1054-10-056

Dear Mr. Caldwell:

S&ME, Inc. (S&ME) is submitting this Preliminary Site Assessment (PSA) Report to the North Carolina Department of Transportation (NCDOT). This report presents the background information, field activities, findings, conclusions, and recommendations. These services were performed in general accordance with S&ME Proposal No. P033-10V, Revision 1, dated February 17, 2010, and Contract Number 7000010304 dated June 4, 2009 between NCDOT and S&ME.

1.0 INTRODUCTION

1.1 Background Information

Based on the NCDOT's February 11, 2010, *Request for Technical and Cost Proposal*, and additional information subsequently provided by Mr. Ethan Caldwell of the NCDOT via email the PSAs were conducted within the NCDOT right-of-way (ROW) at the following properties:

Parcel #1 – Kenneth Haney Property - 204 E. Market Street, Elkin, NC – the property formerly operated as a dry cleaner. There is reportedly one 7,000-gallon heating oil underground storage tank (UST) located on the property. There are no known groundwater incidents or releases associated with the property.

Parcel # 2 – Verlie Vestal Property – 108 E. Main Street, Elkin, NC – the property formerly operated as a gasoline station. There are no known groundwater incidents or releases associated with the property.

The PSAs included limited geophysical site assessments and limited soil sampling (up to fifteen feet below ground surface (bgs)) in the designated ROW, assessment areas. As directed by DOT, groundwater was not assessed, as groundwater in the area is known to be measured at least fifteen feet or more bgs in the area.

1.2 Project Information

A site specific Health and Safety Plan was prepared prior to field activities. Underground utilities were located and marked by the North Carolina One-Call Service. A private utility locator was also used to mark on site buried utilities and the potential locations of underground storage tanks (USTs) and associated utilities. The site location is shown on **Figure 1**.

Parcel 1 – Haney Property

The parcel is located at 204 E. Market Street, and consists of a two-story building with unoccupied space on the second floor (apparently used for storage) on the Market Street side of the structure (North Side) and the Main Street side of the building (first floor).

Parcel 2 – Vestal Property

The parcel is located at 108 E. Main Street, and consists of a two-story building with an auto supply business on the second floor (north side, facing Market Street). On the first floor (facing Main Street to the south) are unoccupied spaces, and two commercial businesses.

2.0 GEOPHYSICAL SITE ASSESSMENT

2.1 Methods and Field Testing

On March 3, 2010, S&ME completed a time domain electromagnetic (TDEM) and a ground penetrating radar (GPR) survey of the accessible areas within the ROW at Parcels #1 and #2. These technologies were used in concert with one another in an attempt to detect the presence of potential USTs at the site. A brief description of each technology is presented in Section 2.2 and 2.3.

2.2 Time Domain Electromagnetic Methodology

TDEM methods measure the electrical conductivity of subsurface materials. The conductivity is determined by transmitting a time-varying magnetic pulse into the ground and measuring the amplitude and phase shift of the secondary magnetic field. The secondary magnetic field is created as the conductive materials become an inductor as the primary magnetic field is passed through them.

The TDEM survey was performed with a Geonics EM-61 MKII system, which has a 1.0-meter x 0.5-meter coil system. The EM-61 TDEM system allows discrimination between moderately conductive subsurface materials and very conductive metallic targets as the secondary

electromagnetic response from metallic targets are of longer duration than those created by moderately conductive subsurface materials. Accordingly, only the later EM arrivals are recorded so that only the very conductive metallic features are targeted.

The EM-16 TDEM data were acquired in combination with Global Positioning System (GPS) data. The GPS data were collected as a continuous data output stream to the EM-61 during TDEM data acquisition. In areas where GPS signals were too weak or unavailable, the area was surveyed using real-time random walk method of data acquisition. The collected TDEM data along with GPS data were post processed and plotted to distinguish metallic response caused by surface site features (e.g., manhole covers, fence lines, etc.) or isolated subsurface features (e.g., metallic debris in fill soils) from potential subsurface obstructions. The electromagnetic data results are presented in the attached figures.

If an anomaly was identified during TDEM data acquisition in the field, the area where the anomaly was identified was marked in the field and its location recorded using GPS. To delineate the geometric characteristics of TDEM anomalies, each was further explored using GPR.

2.3 Ground Penetrating Radar

GPR is an electromagnetic method that detects interfaces between subsurface materials with differing dielectric constants. The transmitter radiates electromagnetic waves into the earth from an antenna moving across the ground surface. Electromagnetic waves are reflected back to the receiver by interfaces between materials with differing dielectric constants. The intensity of the reflected signal is a function of the contrast in the dielectric constant at the interface, the conductivity of the material that the wave is traveling through, and the frequency of the signal.

The GPR survey was performed with a GSSI SIRS-3000 unit equipped with a 400 MHz shielded antenna. The depth of GPR wave penetration at the site, which is a function of the conductivity of the subsurface materials and signal frequency, is approximately four feet. A Sample GPR Data Profile, showing the depth of penetration, is presented in **Appendix I**.

2.4 Results of Geophysical Assessment

On March 3, 2010, S&ME completed a limited geophysical survey to identify subsurface anomalies within the parcel right of way. Sample data collected during the limited survey are shown on figures presented in **Appendix I**.

Parcel 1 – Haney Property

No geophysical anomalies indicative of USTs were delineated within the designated areas of the parcel. The GPR detected several subsurface utilities at the site. The anomalies in the data are due to reinforced sidewalks on the southern portion of the parcel, and an above-ground propane tank on the southwestern portion of the parcel.

Parcel 2 – Vestal Property

No geophysical anomalies indicative of USTs were delineated within the designated areas of the parcel. Anomalies detected during the geophysical survey consisted of reinforced concrete,

manhole covers, and subsurface utilities.

3.0 SOIL ASSESSMENT

3.1 Soil Sampling

On March 12, 2010, S&ME utilized direct push technology, commonly referred to as Geoprobe[®], to advance five borings below the ground surface on the site. Soil borings P-1 and P-2 were advanced on Parcel 2 (Vestal Property), and soil borings P-4, P-5, and P-6 were advanced on Parcel 1 (Haney Property). It should be noted that while attempting to advance soil borings on the north side of Parcel 2 (Vestal Property), a void was encountered at a depth of approximately six inches below ground surface. The entire northern portion of this parcel appears to be a suspended concrete slab with interior space below the slab. Soil boring P-3 was proposed for this area and was not installed. Mr. Michael Pfeifer with S&ME contacted Mr. Ethan Caldwell with NCDOT by telephone and email on March 12, 2010 to inform him of the suspended slab. Photographs taken during site activities are included in **Appendix II**.

The soil borings were advanced to 15 feet below ground surface at each sampling location. The locations of the borings are indicated on **Figure 2**. At each location, soils were continuously sampled at four-foot intervals to depths of 15 feet below ground surface at each location. Lithologic descriptions of the soils encountered during the installation of the soil borings are included in boring logs in **Appendix III**.

Soil recovered from the sleeves was classified on-site by S&ME personnel and screened with a Toxic Vapor Analyzer (TVA) at approximately two foot intervals to measure relative headspace concentrations of volatile organic compounds (VOCs).

VOC headspace readings were obtained from an aliquot of each soil sample that was placed in a re-sealable bag. Another portion of the sample was placed in a separate re-sealable bag and stored in an insulated container with ice for possible laboratory analyses. After waiting approximately 15 minutes to allow the sample to reach ambient temperature and headspace equilibrium, the TVA probe was inserted into the bag to obtain a headspace reading. A summary of the TVA readings are shown in **Table 1**, and logs of the soil borings are included in **Appendix III**.

The soil samples stored in the cooler from the selected depths were selected for laboratory analysis. The soil samples were analyzed by Prism Laboratories, Inc., a North Carolina certified laboratory, for total petroleum hydrocarbons for gasoline range (TPH-GRO) and diesel range (TPH-DRO) by EPA Methods 8015/5035A/3541. The soil samples collected from P-4 through P-6 were additionally analyzed for VOCs by EPA Method 8260B.

Boring holes were backfilled with bentonite pellets and soil. Used gloves were bagged and disposed off-site.

3.2 Soil Sample Analytical Results

The soil sampling laboratory results are summarized in **Table 2** and a copy of the laboratory analytical report is included as an **Appendix IV**. The soil boring locations and concentrations of target contaminants are shown in **Figure 3**.

Parcel 1 – Haney Property

The laboratory analytical results of the soil samples collected on the Haney Property indicate that several VOCs were detected in concentrations which exceeded their respective Maximum Soil Contaminant Concentrations (MSCCs). In soil sample P-4 (collected from 12.5 ft-bgs), cis-1,2-dichloroethene (0.68 milligrams per kilogram (mg/Kg), tetrachloroethene (18 mg/Kg), trichloroethene (0.18 mg/Kg), and vinyl chloride (0.14 mg/Kg) were detected in concentrations exceeding their respective MSCCs. Several other VOCs were detected in concentrations exceeding their respective laboratory reporting limits, but below their respective MSCCs in soil sample P-4.

In soil sample P-5, collected from 15 ft-bgs, tetrachloroethane (55 mg/Kg), 1,1,2,2-tetrachloroethene (0.0025 mg/Kg), trichloroethene (0.029 mg/Kg), and vinyl chloride (0.0074 mg/Kg) were detected in concentrations exceeding their respective MSCCs. Several other VOCs were also detected in concentrations exceeding their respective laboratory reporting limits, but below their respective MSCCs.

Tetrachloroethane (0.23 mg/Kg) and trichloroethene (0.02 mg/Kg) were detected in concentrations exceeding their respective MSCCs in soil samples P-5 and P-6.

In addition, TPH-GRO was detected at 10 mg/Kg in P-4 and 19 mg/Kg in P-5, respectively, both exceeding the NCDENR Action Limit of 10 mg/Kg. TPH-DRO was detected at 6.1 mg/Kg in soil sample P-5, below the NCDENR Action Limit of 10 mg/Kg.

Parcel 2 – Vestal Property

The laboratory analytical results of the soil samples collected on the Vestal Property indicated that concentrations of TPH-DRO and TPH-GRO were below the laboratory's detection limits in soil samples P-1 and P-2. VOC analyses were not requested for these samples.

4.0 CONCLUSIONS and RECOMMENDATIONS

4.1 Geophysical Assessment

S&ME completed a TDEM and a GPR survey to identify subsurface anomalies within the parcels right of way. Subsurface anomalies were delineated on both parcels, and are shown on attached figures in **Appendix I**. However, these anomalies are not indicative of USTs. Although these anomaly geometries are not indicative of USTs, there could be buried materials in this region.

4.2 Soil Assessment

S&ME advanced two soil borings (P-1 and P-2) on Parcel 2 (Vestal Property), and three soil borings (P-4 through P-6) on Parcel 1 (Haney Property), to approximately 15-feet below ground surface on March 12, 2010. The laboratory analytical results of the soil samples indicated that concentrations of TPH-DRO and TPH-GRO were below the laboratory's detection limits in soil

samples P-1 and P-2.

Several VOCs were detected in concentrations exceeding their respective NCDENR MSCCs in soil samples P-4 through P-6. In addition, concentrations of TPH-GRO were detected above the State Action Level in soil samples P-4 and P-5, while TPH-DRO was detected above the Station Action Level in soil sample P-6.

The detections of VOCs in soil borings P-4 through P-6 on Parcel 1 (Haney Property) are indicative of a release of chlorinated solvent compounds either at the site, or at a location in the vicinity of the site. According to information provided to S&ME by the NCDOT, the site formerly operated as a dry cleaning facility. In addition, a 7,000-gallon heating oil UST was also reportedly present at the property (according to NCDOT-provided information). The detections of TPH-DRO and TPH-GRO in soil samples P-4 through P-6 (Haney Property) are consistent with a possible release of petroleum from a UST, although no anomalies consistent with a UST were located during the geophysical survey.

4.3 Recommendations

It is likely that petroleum impacted soil will be encountered at depths greater than seven feet or so bgs on the western portion of Parcel 1 (Haney Property) and in the right-of-way. NCDOT should make its contractors aware of possible chlorinated solvent and petroleum contamination in this area.

5.0 LIMITATIONS

This report has been prepared in accordance with generally accepted environmental engineering and geophysical practice for specific application to this project. The conclusions and recommendations contained in this report are based upon applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, expressed or implied, is made.

The conclusions for the geophysical assessment submitted herein are based upon the data obtained from the non-invasive testing. As such, even within the surveyed area, the survey cannot be considered 100 percent accurate due to inherent method limitations, survey limitations, site features, and/or unforeseen site-specific conditions. Accordingly, the possibility exists that not all subsurface, man-made features have been located.

The geophysical methods used for this survey have inherent limitations and site features can cause interference. Site metallic features (e.g., cars, HVAC units, fences, utilities, reinforced concrete, etc.) can produce EM response.

The location and/or determination of the lack thereof of UST's is based on our review of provided information and of the TDEM and GPR data. Under no circumstances does S&ME assume any responsibility for damages resulting from the presence of or damage to UST's that may exist but were not identified by our survey.

This Preliminary Site Assessment was performed solely for NCDOT regarding the above-referenced site and assessment area. This report is provided for the sole use of NCDOT. Use of this report by any other parties will be at such party's sole risk. S&ME disclaims liability for any such use or reliance by third parties. The observations presented in this report are indicative of

conditions during the time of the assessment and of the specific areas referenced.

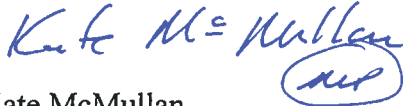
CLOSING

S&ME welcomes the opportunity to assist you with your environmental needs. Should you have any questions regarding this report, please call Tom Raymond at (919) 872-2660.

Sincerely,
S&ME, Inc.



Michael W. Pfeifer
Project Manager



Kate McMullan
Project Geophysicist



4/19/10

Tom Raymond, PE
Senior Consultant

Attachment: Table 1 – Soil Field Screening Results
Table 2 – Soil – Laboratory Results
Figure 1 – Vicinity Map
Figure 2 – Boring Location Map
Figure 3 – Site Map with Boring Locations and Soil Constituent Map
Appendix I – Geophysical Survey Information and Figures
Appendix II – Photograph Log
Appendix III - Boring Logs
Appendix IV - Laboratory Analytical Report

TABLE 1
Soil Field Screening Results
NCDOT Project No. B-4820
Parcel 1 - Haney Property, Parcel 2 - Vestal Property
204 E. Market St. and 108 E. Main St.
Elkin, Surry County, North Carolina
S&ME Project No. 1054-10-056

Sample ID	Date Collected	Depth (feet bgs)	FID (PPM)
P-1	3/12/2010	2.5	0.0
		5.0	0.0
		7.5	0.0
		10.0	0.0
		12.5	0.0
		15.0	0.0
P-2	3/12/2010	2.5	0.0
		5.0	2
		7.5	7
		10.0	14
		12.5	7
		15.0	6
P-4	3/12/2010	2.5	0.0
		5.0	0.0
		7.5	<1
		10.0	13
		12.5	18
		15.0	6
P-5	3/12/2010	2.5	1.5
		5.0	2
		7.5	3.5
		10.0	14
		12.5	<1
		15.0	18
P-6	3/12/2010	2.5	0.0
		5.0	0.0
		7.5	2.0
		10.0	1.5
		12.5	<1
		15.0	1.5

Notes:

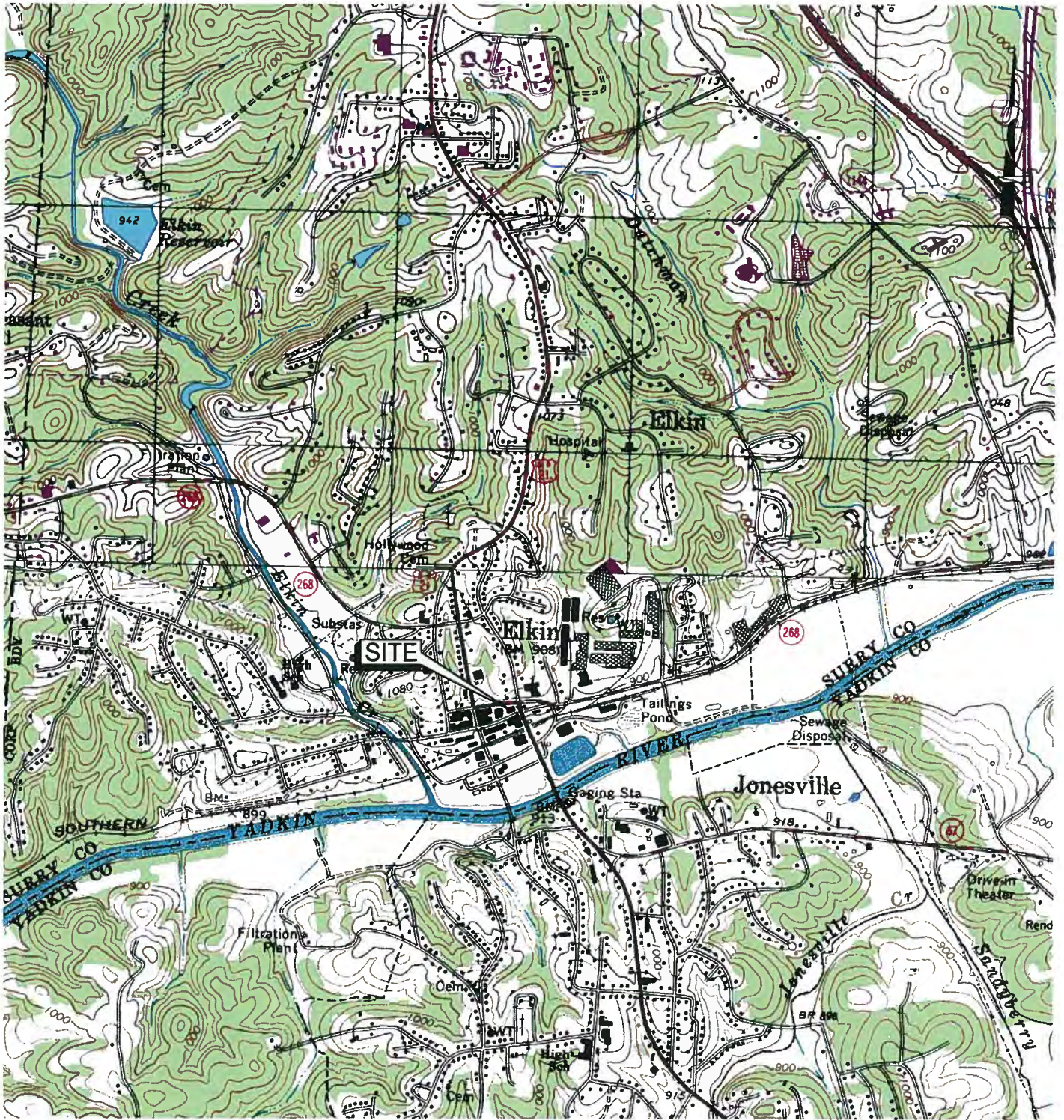
1. Feet bgs - feet below ground surface
2. FID - flame-ionization detector
3. PPM - Parts Per Million, volume in air
4. See Figure 3 for soil sample locations
5. Bold and highlighted indicates samples sent to laboratory for analysis.
6. Soil boring P-3 was not installed.

TABLE 2
Summary of Soil Sampling Results
NCDOT Project No.B-4820
Parcel 1 - Haney Property, Parcel 2 - Vestal Property
204 E. Market St. and 108 E. Main St.
Elkin, Surry County, North Carolina
S&ME Project No. 1054-10-056

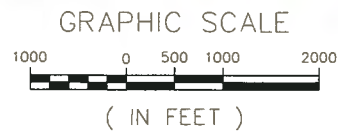
Analytical Method Contaminant of Concern				Volatile Organic Compounds (VOCs) by EPA Method 8260B (mg/Kg)										Total Petroleum Hydrocarbons (mg/Kg)	
				1,1-dichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	carbon tetrachloride	methyl ethyl ketone	1,1,2,2-tetrachloroethane	1,2,4-trimethylbenzene	tetrachloroethene	trichloroethene	vinyl chloride	Gasoline Range Organics (GRO) EPA Method 3550/8015	Diesel Range Organics (DRO) EPA Method 5030/8015
Sample ID	Sample Depth (feet below surface)	Sample Location	Date Collected												
P-1	10.0	Parcel 2	3/12/2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	BDL	BDL
P-2	10.0	Parcel 2		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	BDL	BDL
P-4	12.5	Parcel 1		0.0021 J	0.68	0.0021 J	BDL	BDL	BDL	BDL	18	0.18	0.14	10	BDL
P-5	15.0	Parcel 1		BDL	0.10	BDL	0.0021 J	0.012 J	0.0025 J	0.0027 J	55	0.029	0.0074	19	6.1 J
P-6	7.5	Parcel 1		BDL	0.0063	BDL	BDL	BDL	BDL	BDL	0.23	0.02	BDL	BDL	94
Soil to Groundwater MSCCs				0.045	0.35	0.54	NE	16	0.001	8.5	0.0074	0.019	0.00018	NE	NE
Residential MSCCs				780	156	310	NE	9,385	0.78	782	1.1	4.6	0.46	NE	NE
Industrial/Commercial MSCCs				20,000	4,000	8,200	NE	245,280	20	20,440	10	120	4.1	NE	NE
North Carolina Action Level (mg/Kg)				NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	10	10

Notes:

1. Analytes that are not shown were not detected
2. All concentrations are reported in milligrams per kilogram (mg/Kg)
3. Ft-bgs: Feet below ground surface
4. MSCC: Maximum Soil Contaminant Concentrations
5. All samples that exceeded the soil-to water MSCCs or TPH Action Levels are shown in Shaded and BOLD fields.
6. Concentrations exceeding the laboratory's reporting limits are shown in BOLD fields.
7. J: The reported value is between the reporting limit and the method detection limit, adjusted for actual sample preparation data.
8. NR: Analysis not requested for sample.
9. NE: Regulatory standard or goal not established for analyte.
10. Parcel 1 - Ken Haney Property
11. Parcel 2 - Verlie Vestal Property
12. Soil Boring P-3 was not installed.
13. BDL - Below laboratory detection limits



TOPO SOURCE: NCGS DRG
 ELKIN SOUTH, DATED 1971
 ELKIN NORTH, DATED 2000
 CONTOUR INTERVAL 20 FEET



A-1730

SCALE: 1" = 2000'
 DATE: APRIL 2010
 DRAWN BY: BTR
 PROJECT NO:
 1054-10-056

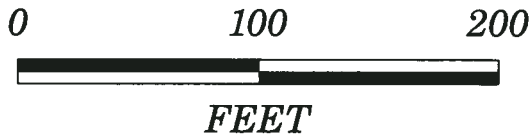
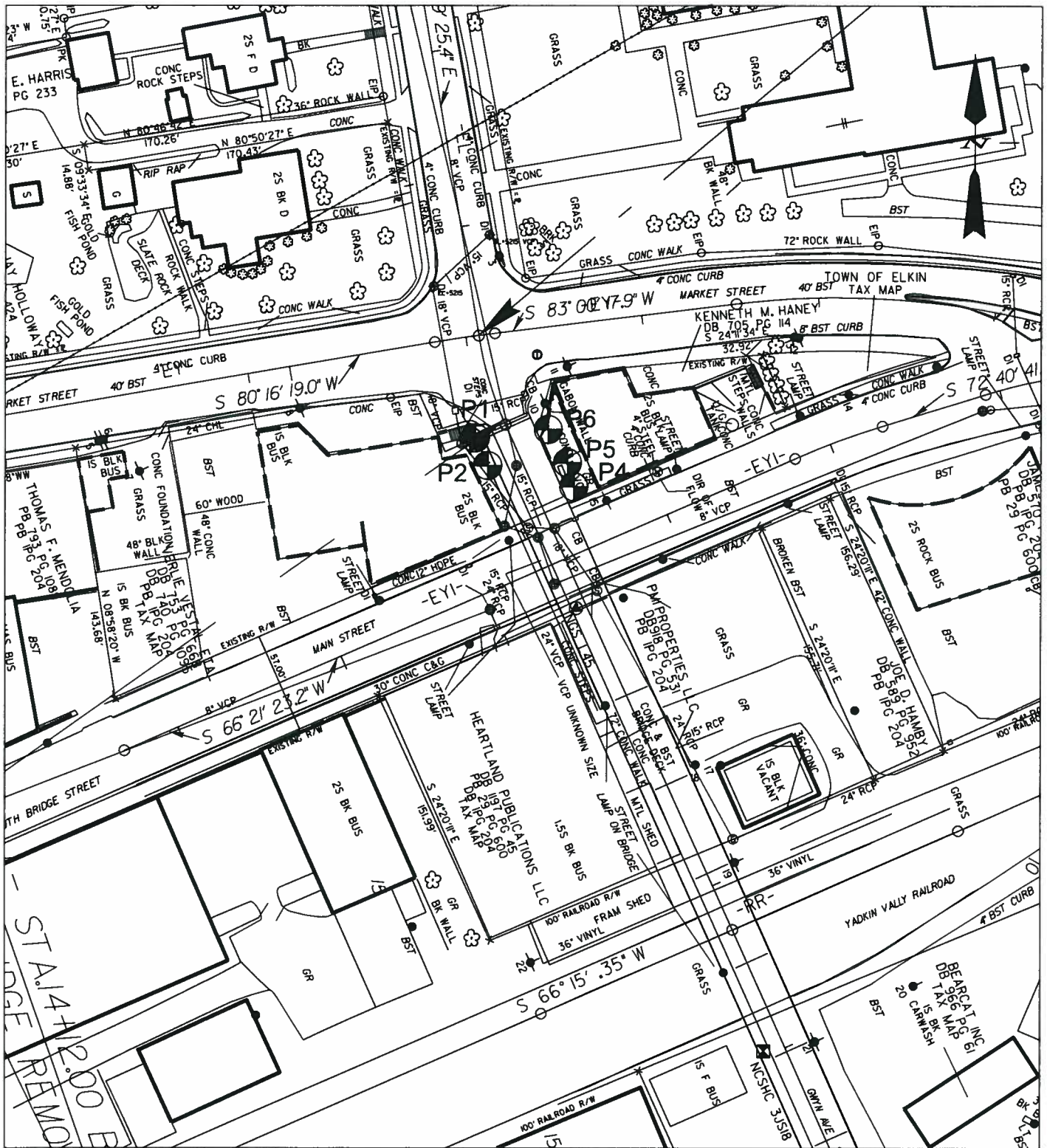


NC ENGINEER LICENSE #F-0176
 3201 SPRING FOREST RD, RALEIGH, NC 27616

VICINITY MAP
 NCDOT PROJECT B-4820
 PARCEL 1 - HANEY & PARCEL 2 - VESTAL
 ELKIN, NORTH CAROLINA

FIGURE NO.

1



NOTES: SOIL BORINGS INSTALLED ON MARCH 12, 2010
 SOIL BORING P3 WAS NOT INSTALLED

MAP SOURCE: NCDOT

SCALE: 1" = 80'

DATE: APRIL 2010

DRAWN BY: BTR

PROJECT NO:
 1051-10-056



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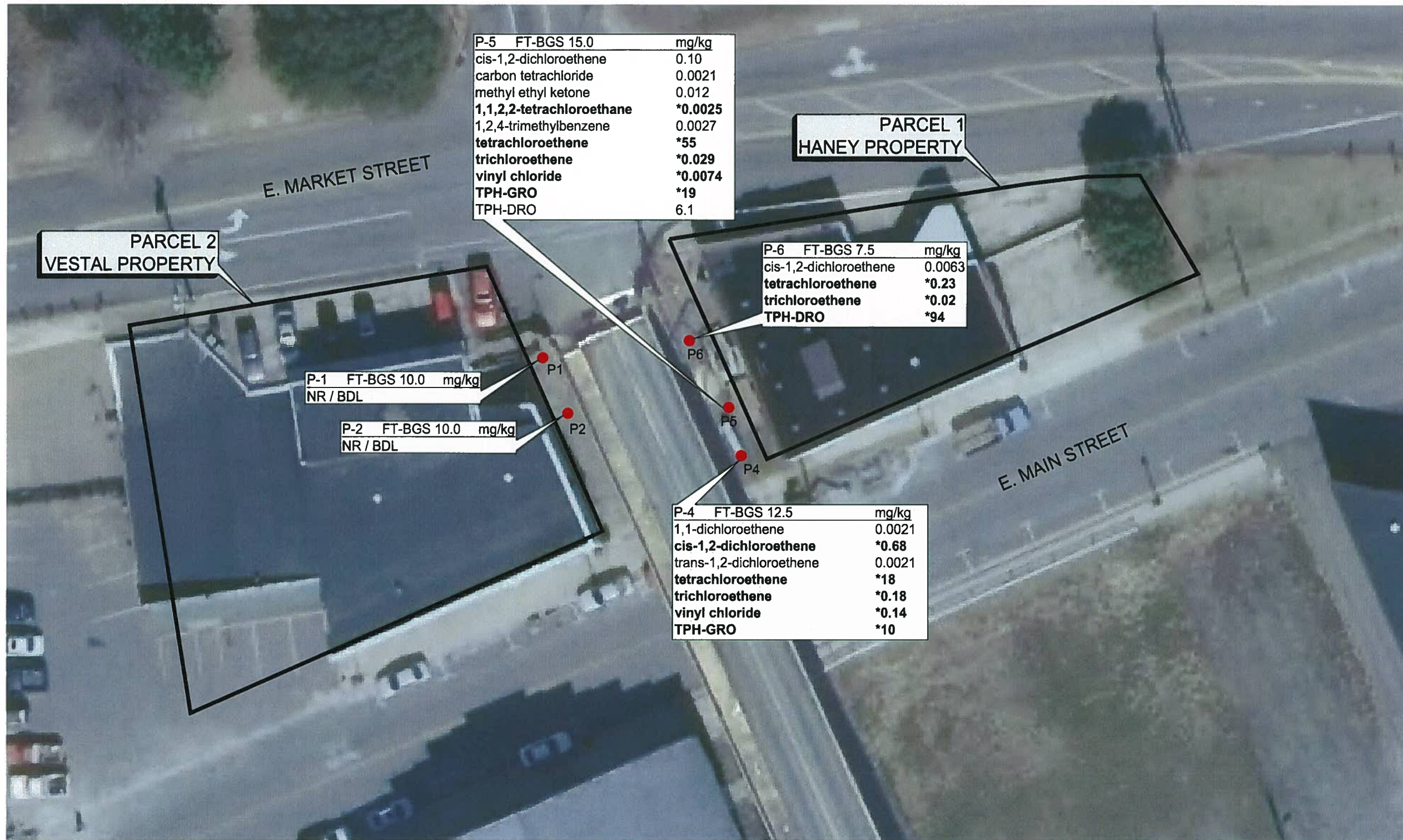
BORING LOCATION MAP

NCDOT PROJECT B-4820
 PARCEL - 1 HANEY & PARCEL 2 - VESTAL
 ELKIN, NORTH CAROLINA

FIGURE NO.

2

S:\PROJECTS\2010\10-056 NCDOT B-4820 Elkin 2 PSAs\CAD\B1271.dwg, Layout1, 4/19/2010 3:52:24 PM, 1:1



P-5 FT-BGS 15.0 mg/kg		
cis-1,2-dichloroethene		0.10
carbon tetrachloride		0.0021
methyl ethyl ketone		0.012
1,1,2,2-tetrachloroethane		*0.0025
1,2,4-trimethylbenzene		0.0027
tetrachloroethene		*55
trichloroethene		*0.029
vinyl chloride		*0.0074
TPH-GRO		*19
TPH-DRO		6.1

P-6 FT-BGS 7.5 mg/kg		
cis-1,2-dichloroethene		0.0063
tetrachloroethene		*0.23
trichloroethene		*0.02
TPH-DRO		*94

P-1 FT-BGS 10.0 mg/kg		
NR / BDL		

P-2 FT-BGS 10.0 mg/kg		
NR / BDL		

P-4 FT-BGS 12.5 mg/kg		
1,1-dichloroethene		0.0021
cis-1,2-dichloroethene		*0.68
trans-1,2-dichloroethene		0.0021
tetrachloroethene		*18
trichloroethene		*0.18
vinyl chloride		*0.14
TPH-GRO		*10

LEGEND

- APPROXIMATE SOIL SAMPLE LOCATION
- SOIL SAMPLES COLLECTED ON 3/12/2010
- CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- * INDICATES EXCEEDENCE OF TPH ACTION LEVELS AND/OR SOIL TO WATER MSCCS
- CONSTITUENTS SHOWN EXCEED LABORATORY DETECTION LIMITS
- FT-BGS - FEET BELOW GROUND SURFACE
- NR - NOT REQUESTED FOR VOC ANALYSIS
- BDL - BELOW DETECTION LIMIT FOR TPH-GRO & TPH-DRO
- TPH-DRO - TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
- TPH-GRO - TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
- MSCC - MAXIMUM SOIL CONTAMINANT CONCENTRATION

SOIL BORING P3 WAS NOT INSTALLED

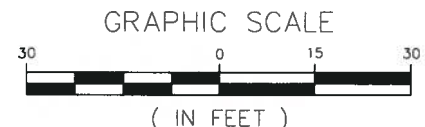


IMAGE SOURCE: NC ONEMAP, SURRY COUNTY, DATED 2008

SCALE: 1" = 30'	DATE: APRIL 2010
PROJECT NUMBER: 1054-10-056	DRAWN BY: BTR
DRAWING NUMBER: B-1271	CHECKED BY:

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SITE MAP WITH SOIL BORING LOCATIONS & CONSTITUENT MAP
 NCDOT PROJECT B-4820 PARCEL - 1 HANEY & PARCEL 2 - VESTAL
 ELKIN, NORTH CAROLINA

FIGURE NO. **3**

APPENDIX I

Geophysical Survey Information and Figures

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EM RESPONSE

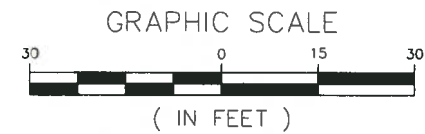
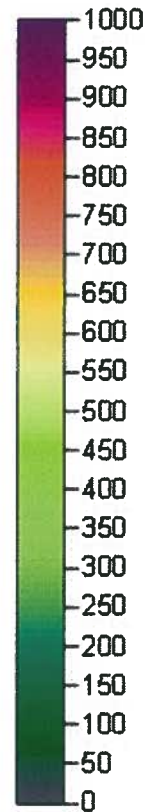


IMAGE SOURCE: NC ONEMAP, SURRY COUNTY, DATED 2008

SCALE: 1" = 30'	DATE: APRIL 2010
PROJECT NUMBER: 1054-10-056	DRAWN BY: BTR
DRAWING NUMBER: B-1273	CHECKED BY:

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RESULTS OF ELECTROMAGNETIC SURVEY

NCDOT PROJECT B-4820 PARCEL - 1 HANEY & PARCEL 2 - VESTAL
 ELKIN, NORTH CAROLINA

FIGURE NO.

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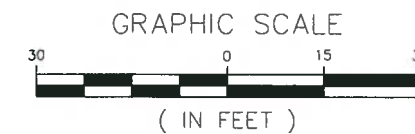


IMAGE SOURCE: NC ONEMAP, SURRY COUNTY, DATED 2008

SCALE:	1" = 30'	DATE:	APRIL 2010
PROJECT NUMBER:	1054-10-056	DRAWN BY:	BTR
DRAWING NUMBER:	B-1272	CHECKED BY:	

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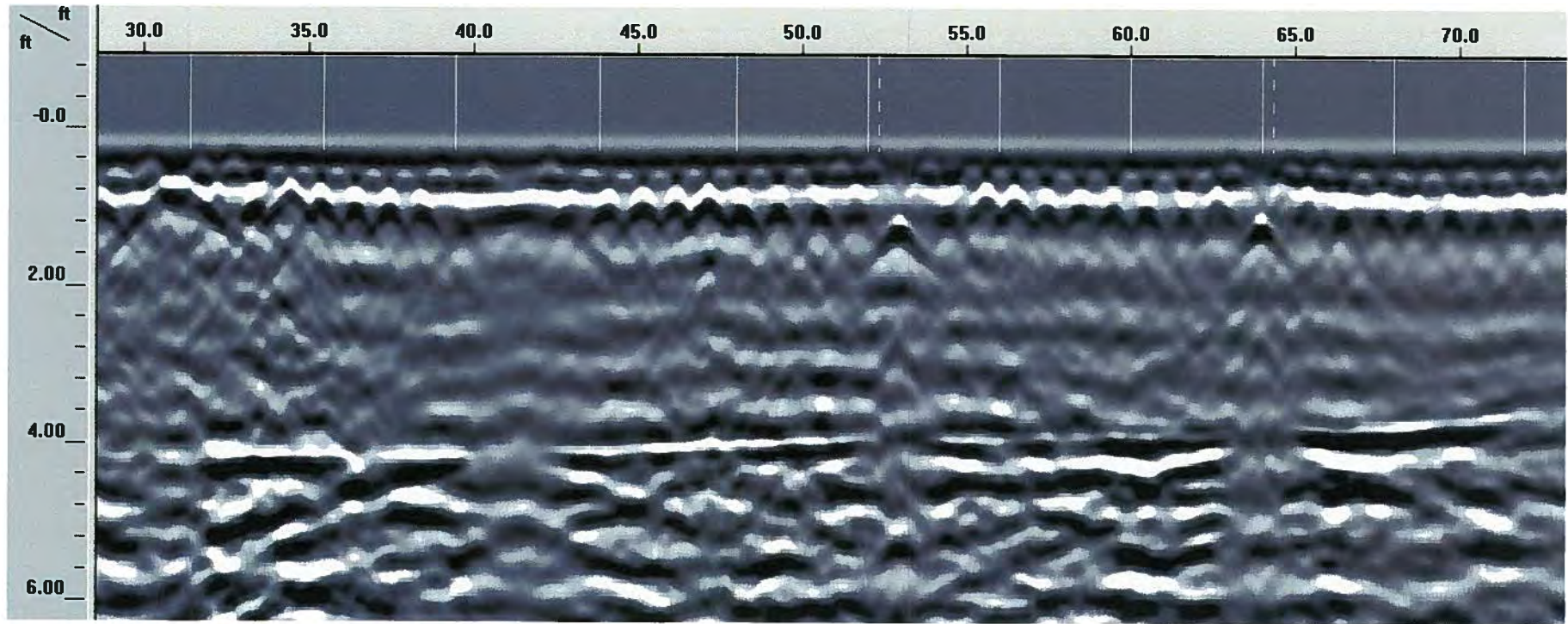
GPR DATA & SUBSURFACE UTILITY LOCATIONS

NCDOT PROJECT B-4820 PARCEL - 1 HANEY & PARCEL 2 - VESTAL
ELKIN, NORTH CAROLINA

FIGURE NO.

East

West



Market Street portion of parcel-prof128

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



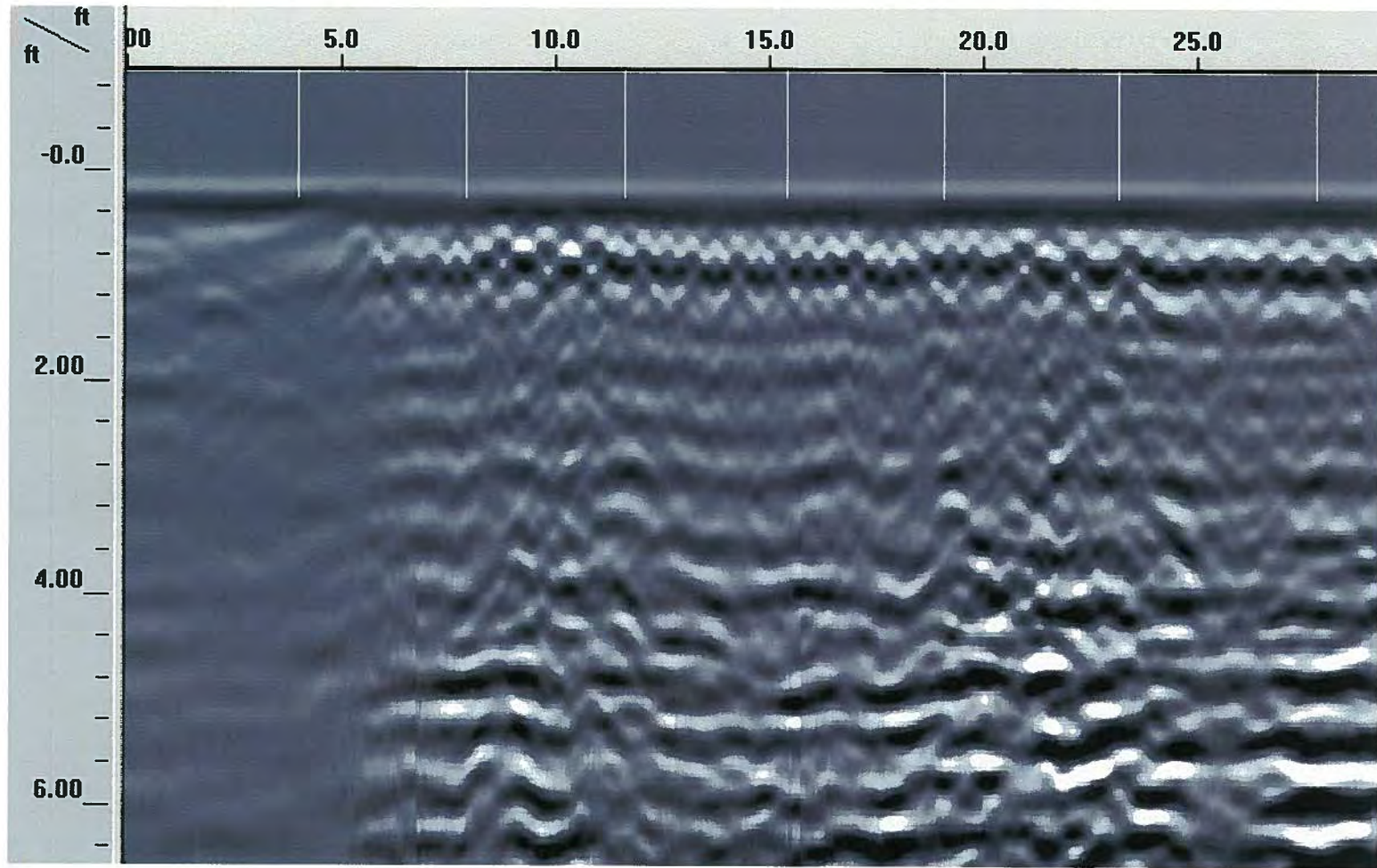
Sample GPR Data
NCDOT Project B-4820
Parcel 2 Vestal Property
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

South

North



Market Street portion of parcel-prof134

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



Sample GPR Data

NCDOT Project B-4820

Parcel 2 Vestal Property

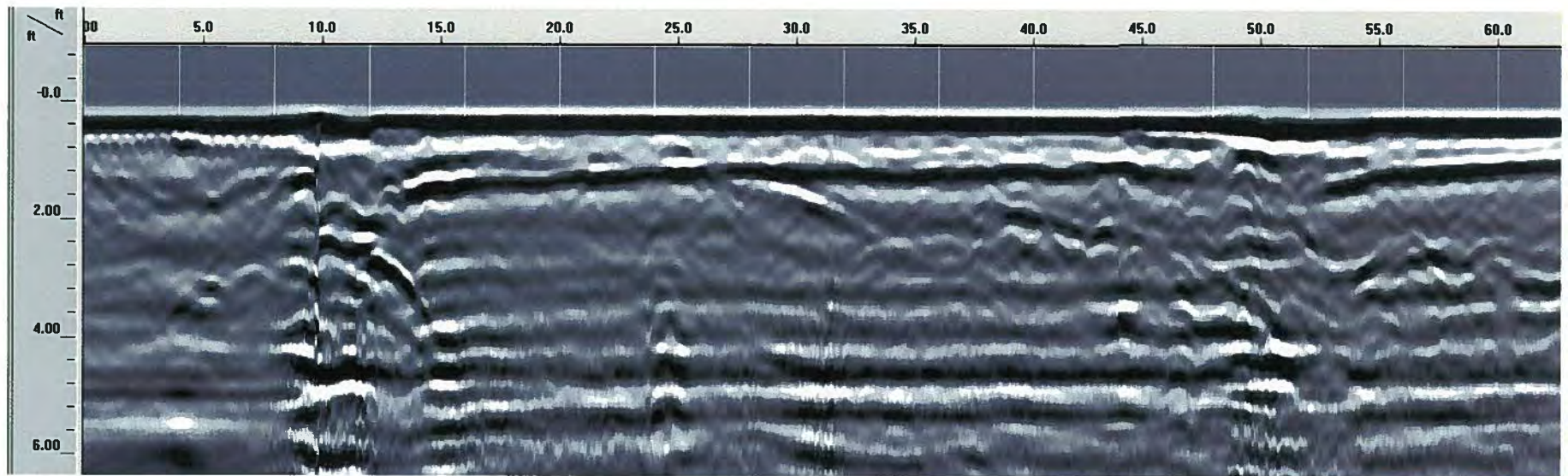
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

South

North



Main Street portion of parcel-prof136

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



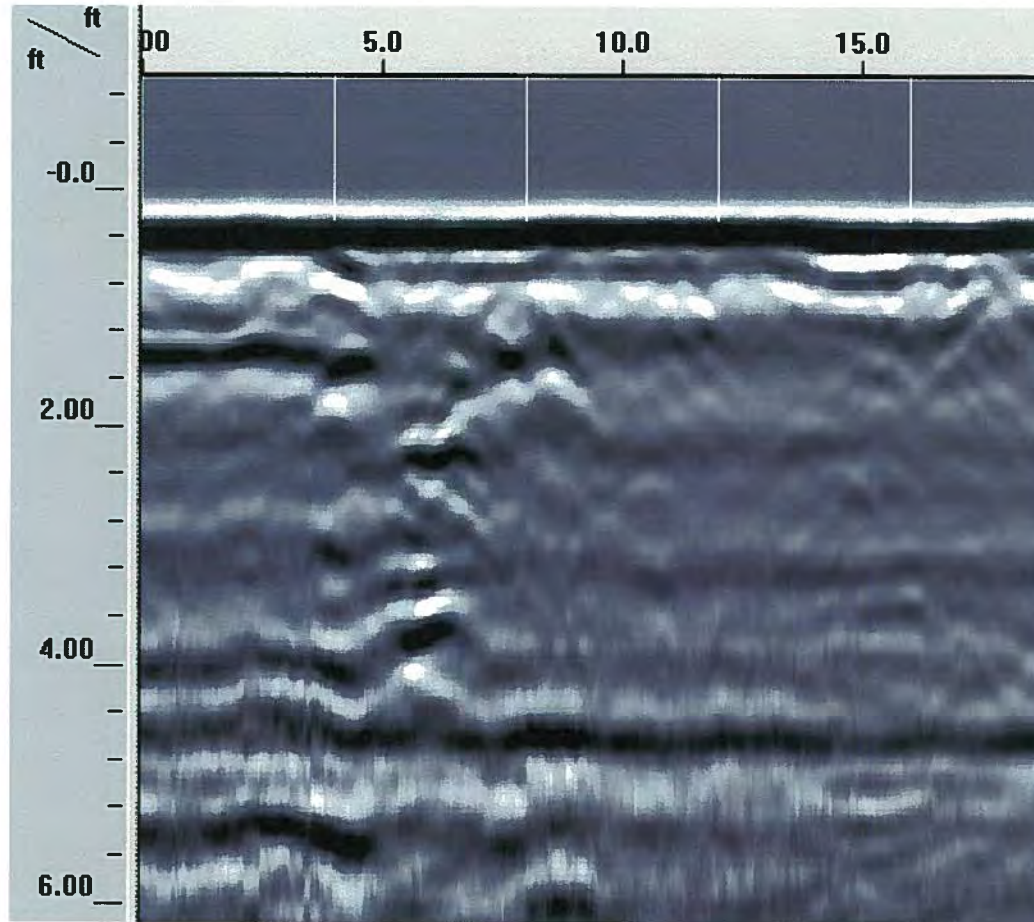
Sample GPR Data
NCDOT Project B-4820
Parcel 2 Vestal Property
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

West

East



Main Street portion of parcel-prof142

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



Sample GPR Data

NCDOT Project B-4820

Parcel 2 Vestal Property

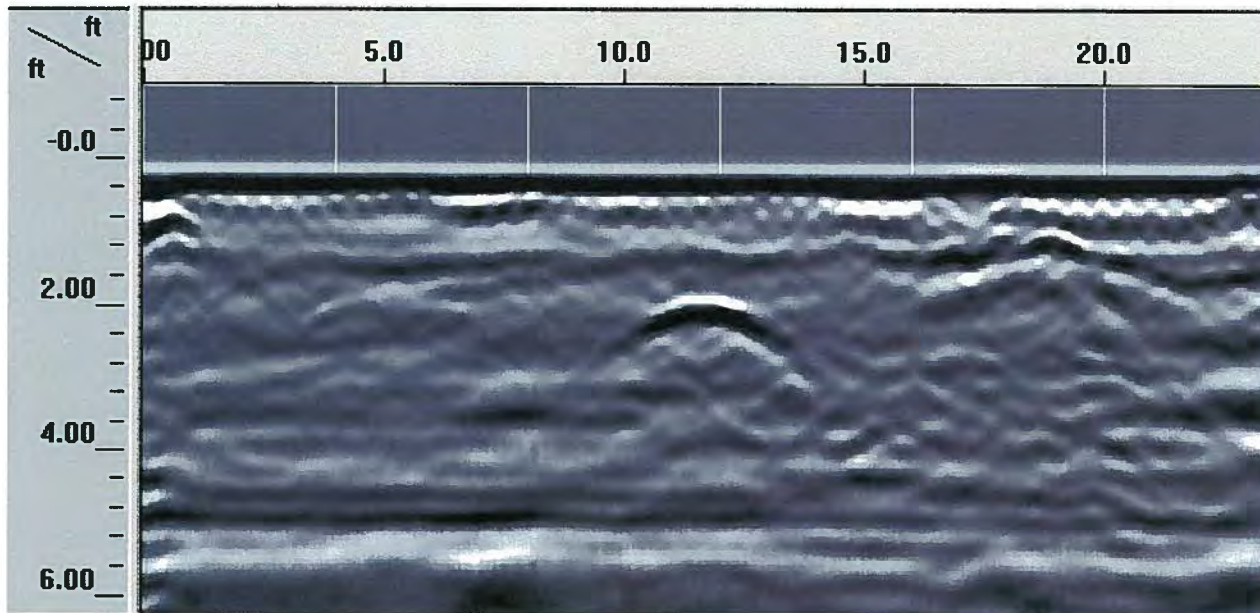
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

West

East



Main Street portion of parcel-prof144

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



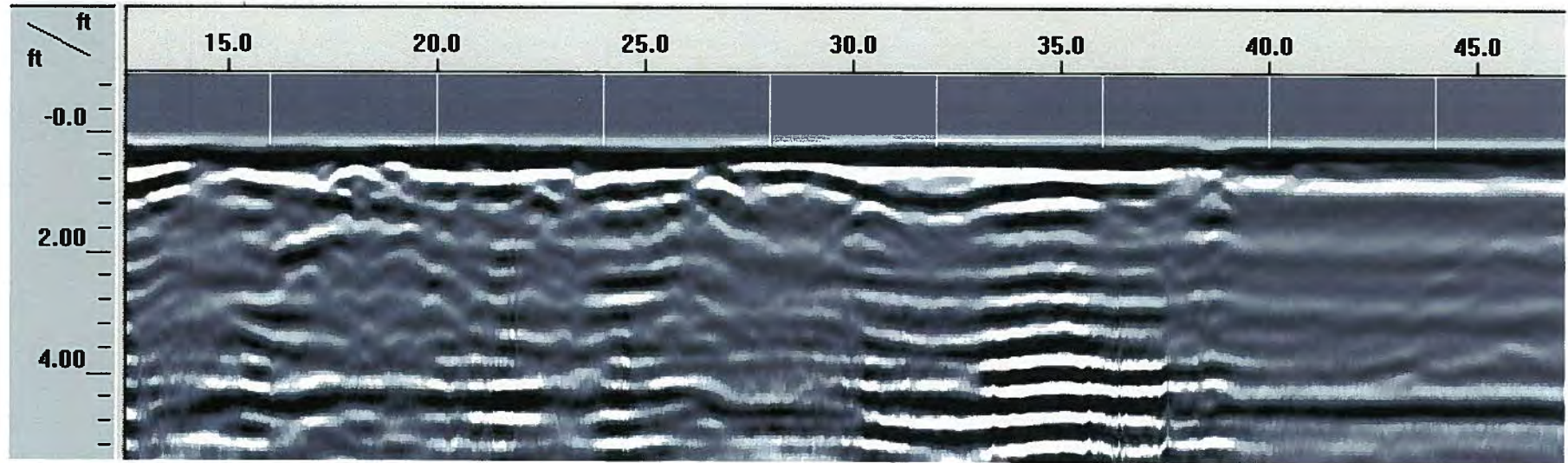
Sample GPR Data
NCDOT Project B-4820
Parcel 2 Vestal Property
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

South

North



Main Street portion of parcel-prof147

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



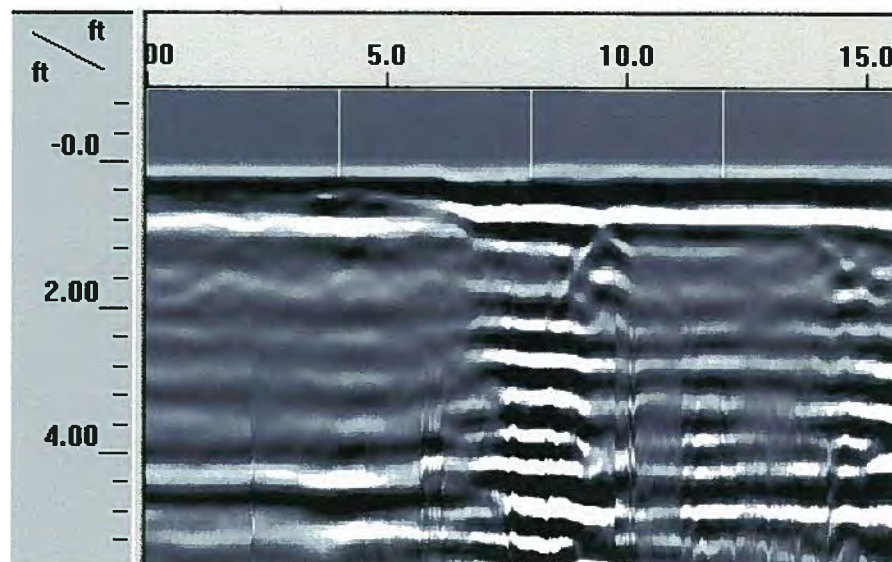
Sample GPR Data
NCDOT Project B-4820
Parcel 1 Haney Property
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

East

West



Main Street portion of parcel-prof153

SCALE: NTS

DRAWN BY: KSMM

CHECKED BY:

DATE: 3/15/10



Sample GPR Data
NCDOT Project B-4820
Parcel 1 Haney Property
Elkin, North Carolina

Job No.: 1054-10-056

FIGURE NO.

APPENDIX II

Photographic Log



1 Geoprobe operations in front of Parcel 2, Vestal Property.



2 View of front of Parcel 2, Vestal Property from Market Street (view to the south).



3 View of old bridge to the east of Parcel 2, Vestal Property from Market Street (view is to the south).



4 View of penetration of suspended slab on Parcel 2, Vestal Property.



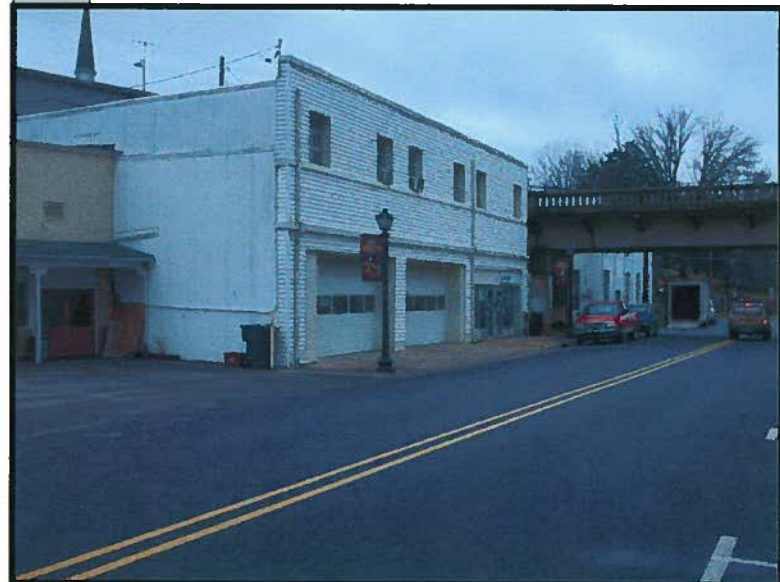
5 View of manholes and subsurface utilities on eastern side of Parcel 1 (Vestal Property).



7 View of commercial business on Main Street (rear) portion of Parcel 1 (Vestal Property).



6 View of commercial business on Main Street (rear) portion of Parcel 1 (Vestal Property).



8 View of commercial business on Main Street (rear) portion of Parcel 1 (Vestal Property) with bridge in background.



9 View of bridge access on eastern portion of Parcel 2 (Vestal Property).



10 View of southwestern corner of Parcel 1 (Haney Property) with propane tank and bridge (view to the northeast).



11 View of propane tank and subsurface utilities on southwestern corner of Parcel 1 (Haney Property).



12 View of area southwestern area of Parcel 1 (Haney Property).



13 View of western side of Parcel 1 (Haney Property) with the bridge to the west (view to the north towards E. Market St.)



14 View of debris and retaining walls on western side of Parcel 1 (Haney Property).



15 View of propane tank and Geoprobe operations on Parcel 2 (Vestal Property) from Parcel 1 (Haney Property) – view to the west under the bridge.



16 View of Geoprobe location on Parcel 2 (Haney Property).

APPENDIX III

Soil Boring Logs

BORING LOG



Project Name: NCDOT B-4820
Elkin, NC
Job No. 1054-10-056

Boring Number: P-1 - Vestal Property
Sampling Personnel: Lyndal Butler
Date Drilled: 3/12/2010, with Geoprobe
Total Boring Depth: 15 Feet Below Ground Surface

STRATIFICATION

Depth (Feet)			PPM
From	To	SOIL DESCRIPTION	FID
0.0	4.0	Fill Material - gray and orange clayey SILT with debris	0.0
4.0	5.0	Fill Material - gray and orange clayey SILT with debris	0.0
5.0	7.5	Fill Material - gray and orange clayey SILT with debris	0.0
7.5	10.0	Orange to brown clayey SILT	0.0
10.0	12.5	Orange to brown clayey SILT	0.0
12.5	15.0	Orange to brown clayey SILT	0.0

Boring Number: P-2 - Vestal Property
Sampling Personnel: Lyndal Butler
Date Drilled: 3/12/2010, with Geoprobe
Total Boring Depth: 15 Feet Below Ground Surface

Depth (Feet)			PPM
From	To	SOIL DESCRIPTION	FID
0.0	4.0	Fill Material - gray and orange clayey SILT with debris	0.0
4.0	5.0	Orange to brown clayey SILT	2.0
5.0	7.5	Orange to brown clayey SILT	7.0
7.5	10.0	Orange to brown clayey SILT	14.0
10.0	12.5	Orange to brown clayey SILT	7.0
12.5	15.0	Orange to brown clayey SILT	6.0

Notes:
 FID - Flame Ionization Detector
 Bold indicates sample was sent to laboratory for analysis.
 PPM - FID readings in parts per million - volume in air.

BORING LOG



Project Name: NCDOT B-4820
Elkin, NC
Job No. 1054-10-056

Boring Number: P-4 - Haney Property
Sampling Personnel: Lyndal Butler
Date Drilled: 3/12/2010, with Geoprobe
Total Boring Depth: 15 Feet Below Ground Surface

STRATIFICATION

Depth (Feet)		SOIL DESCRIPTION	PPM
From	To		FID
0.0	1.0	Fill Material - sandy SILT and gravel	--
1.0	4.0	Orange to brown clayey SILT	0.0
4.0	5.0	Orange to brown clayey SILT	0.0
5.0	7.5	Orange to brown clayey SILT	<1.0
7.5	10.0	Orange to brown clayey SILT	13.0
10.0	12.5	Tan to brown very clayey SILT	18.0
12.5	15.0	Tan to brown very clayey SILT	6.0

Boring Number: P-5 - Haney Property
Sampling Personnel: Lyndal Butler
Date Drilled: 3/12/2010, with Geoprobe
Total Boring Depth: 15 Feet Below Ground Surface

Depth (Feet)		SOIL DESCRIPTION	PPM
From	To		FID
0.0	1.0	Fill Material - sandy SILT and gravel	--
1.0	4.0	Orange to brown clayey SILT	1.5
4.0	5.0	Orange to brown clayey SILT	2.0
5.0	7.5	Orange to brown clayey SILT	3.5
7.5	10.0	Orange to brown clayey SILT	14.0
10.0	12.5	Tan to brown very clayey SILT	<1.0
12.5	15.0	Tan to brown very clayey SILT	18.0

Notes:
 FID - Flame Ionization Detector
 Bold indicates sample was sent to laboratory for analysis.
 -- Indicates no data
 PPM - FID readings in parts per million - volume in air.

BORING LOG**Project Name:** NCDOT B-4820Elkin, NC**Job No.** 1054-10-056

Boring Number: P-6 - Haney Property
Sampling Personnel: Lyndal Butler
Date Drilled: 3/12/2010, with Geoprobe
Total Boring Depth: 15 Feet Below Ground Surface

STRATIFICATION

Depth (Feet)		SOIL DESCRIPTION	FID
From	To		
0.0	1.0	Fill Material - sandy SILT and gravel	--
1.0	4.0	Orange to brown clayey SILT	0.0
4.0	5.0	Orange to brown clayey SILT	0.0
5.0	7.5	Orange to brown clayey SILT	2.0
7.5	10.0	Orange to brown clayey SILT	1.5
10.0	12.5	Tan to brown very clayey SILT	1.0
12.5	15.0	Tan to brown very clayey SILT	1.5

Notes:

FID - Flame Ionization Detector

Bold indicates sample was sent to laboratory for analysis.

-- Indicates no data

PPM - FID readings in parts per million - volume in air.

APPENDIX IV

Laboratory Analytical Report



PRISM
LABORATORIES, INC.

Case Narrative

Date: 03/26/10
Company: N.C. Department of Transportation
Contact: Michael Pfeifer
Address: c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Client Project ID: NCDOT Elkin
Prism COC Group No: G0310488
Collection Date(s): 03/12/10
Lab Submittal Date(s): 03/15/10

Client Project Name Or No: Bridge 338 NCDOT No. B-4820

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 19 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

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

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

Analysis Note for Q48791 MS Chlorobenzene: MS recovery outside the control limits.

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

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

Data Reviewed by: Steven H. Guptill

Project Manager: Steven H. Guptill

Signature: 

Signature: 

Review Date: 03/26/10

Approval Date: 03/26/10

Data Qualifiers Key Reference:

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded.
- J: The analyte was positively identified but the value is estimated below the reporting limit.
- H: Estimated concentration with a high bias.
- L: Estimated concentration with a low bias.
- M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-1-10
 Prism Sample ID: 274146
 COC Group: G0310488
 Time Collected: 03/12/10 12:05
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.3	%			1	SM2540 G	03/18/10 14:30	jbrayton	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	03/24/10 12:25	jvogel	Q48980
Sample Preparation:			24.97 g	/	1 mL	3545	03/23/10 10:00	jvogel	P27083
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	64	49 - 124	
Sample Weight Determination									
Weight 1	6.81	g			1	GRO	03/17/10 0:00	lbrown	
Weight 2	7.11	g			1	GRO	03/17/10 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	03/19/10 20:03	heasler	Q48872
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	96	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

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



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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-2-10
 Prism Sample ID: 274147
 COC Group: G0310488
 Time Collected: 03/12/10 12:33
 Time Submitted: 03/15/10 17:20

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

Percent Solids Determination

Percent Solids	79.7	%			1	SM2540 G	03/18/10 14:30	jbrayton	
----------------	------	---	--	--	---	----------	----------------	----------	--

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	03/24/10 13:00	jvogel	Q48980
-----------------------------	-----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 24.96 g / 1 mL 3545 03/23/10 10:00 jvogel P27083

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

Sample Weight Determination

Weight 1	6.80	g			1	GRO	03/17/10 0:00	lbrown	
----------	------	---	--	--	---	-----	---------------	--------	--

Weight 2	7.05	g			1	GRO	03/17/10 0:00	lbrown	
----------	------	---	--	--	---	-----	---------------	--------	--

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	3.9	50	8015B	03/19/10 19:32	heasler	Q48872
-------------------------------	-----	-------	-----	-----	----	-------	----------------	---------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	98	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-4-12.5
 Prism Sample ID: 274148
 COC Group: G0310488
 Time Collected: 03/12/10 13:20
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	78.7	%			1	SM2540 G	03/18/10 14:30	jbrayton	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	6.52	g			1	5035	03/17/10 0:00	lbrown	
Weight Bisulfate 2	6.84	g			1	5035	03/17/10 0:00	lbrown	
Weight Methanol	6.79	g			1	5035	03/17/10 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
1,1,2-Trichloroethane	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
1,1-Dichloroethane	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
1,1-Dichloroethene	0.0021 J	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
1,1-Dichloropropene	BRL	mg/kg	0.0049	0.0010	1	8260B	03/17/10 17:00	erussell	Q48791
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0049	0.0016	1	8260B	03/17/10 17:00	erussell	Q48791
1,2,3-Trichloropropane	BRL	mg/kg	0.0049	0.0020	1	8260B	03/17/10 17:00	erussell	Q48791
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
1,2-Dichlorobenzene	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
1,2-Dichloroethane	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
1,2-Dichloropropane	BRL	mg/kg	0.0049	0.0015	1	8260B	03/17/10 17:00	erussell	Q48791
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
1,3-Dichlorobenzene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
1,3-Dichloropropane	BRL	mg/kg	0.0049	0.0010	1	8260B	03/17/10 17:00	erussell	Q48791
1,4-Dichlorobenzene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
2,2-Dichloropropane	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
2-Chlorotoluene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791

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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-4-12.5
 Prism Sample ID: 274148
 COC Group: G0310488
 Time Collected: 03/12/10 13:20
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.049	0.0015	1	8260B	03/17/10 17:00	erussell	Q48791
4-Chlorotoluene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
Acetone	BRL	mg/kg	0.049	0.0021	1	8260B	03/17/10 17:00	erussell	Q48791
Benzene	BRL	mg/kg	0.0029	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
Bromobenzene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Bromochloromethane	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
Bromodichloromethane	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
Bromoform	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
Bromomethane	BRL	mg/kg	0.0097	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Carbon tetrachloride	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
Chlorobenzene	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
Chlorodibromomethane	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Chloroethane	BRL	mg/kg	0.0097	0.0025	1	8260B	03/17/10 17:00	erussell	Q48791
Chloroform	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Chloromethane	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
cis-1,2-Dichloroethene	0.68	mg/kg	0.23	0.055	50	8260B	03/18/10 20:43	erussell	Q48791
cis-1,3-Dichloropropene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Dichlorodifluoromethane	BRL	mg/kg	0.0049	0.0010	1	8260B	03/17/10 17:00	erussell	Q48791
Ethylbenzene	BRL	mg/kg	0.0049	0.0010	1	8260B	03/17/10 17:00	erussell	Q48791
Isopropyl ether (IPE)	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Isopropylbenzene	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
m,p-Xylenes	BRL	mg/kg	0.0097	0.0026	1	8260B	03/17/10 17:00	erussell	Q48791
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.097	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.0097	0.0010	1	8260B	03/17/10 17:00	erussell	Q48791
Methylene chloride	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
n-Butylbenzene	BRL	mg/kg	0.0049	0.0018	1	8260B	03/17/10 17:00	erussell	Q48791

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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-4-12.5
 Prism Sample ID: 274148
 COC Group: G0310488
 Time Collected: 03/12/10 13:20
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
Naphthalene	BRL	mg/kg	0.0097	0.0026	1	8260B	03/17/10 17:00	erussell	Q48791
o-Xylene	BRL	mg/kg	0.0049	0.0011	1	8260B	03/17/10 17:00	erussell	Q48791
p-Isopropyltoluene	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
sec-Butylbenzene	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
Styrene	BRL	mg/kg	0.0049	0.00095	1	8260B	03/17/10 17:00	erussell	Q48791
tert-Butylbenzene	BRL	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791
Tetrachloroethene	18	mg/kg	2.3	0.60	500	8260B	03/18/10 19:26	erussell	Q48791
Toluene	BRL	mg/kg	0.0049	0.0012	1	8260B	03/17/10 17:00	erussell	Q48791
trans-1,2-Dichloroethene	0.0021 J	mg/kg	0.0049	0.00096	1	8260B	03/17/10 17:00	erussell	Q48791
trans-1,3-Dichloropropene	BRL	mg/kg	0.0049	0.00097	1	8260B	03/17/10 17:00	erussell	Q48791
Trichloroethene	0.18	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
Trichlorofluoromethane	BRL	mg/kg	0.0049	0.0014	1	8260B	03/17/10 17:00	erussell	Q48791
Vinyl acetate	BRL	mg/kg	0.024	0.0033	1	8260B	03/17/10 17:00	erussell	Q48791
Vinyl chloride	0.14	mg/kg	0.0049	0.0013	1	8260B	03/17/10 17:00	erussell	Q48791

Surrogate	% Recovery	Control Limits
Toluene-d8	101	81 - 128
Dibromofluoromethane	98	67 - 143
Bromofluorobenzene	101	77 - 128

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) BRL mg/kg 8.9 1.4 1 8015B 03/24/10 18:20 jvogel Q48980

Sample Preparation: 25.02 g / 1 mL 3545 03/23/10 10:00 jvogel P27083

Surrogate	% Recovery	Control Limits
o-Terphenyl	89	49 - 124

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N.C. Department of Transportation
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 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-4-12.5
 Prism Sample ID: 274148
 COC Group: G0310488
 Time Collected: 03/12/10 13:20
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Sample Weight Determination</u>									
Weight 1	6.81	g			1	GRO	03/17/10 0:00	lbrown	
Weight 2	7.11	g			1	GRO	03/17/10 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	10	mg/kg	6.4	4.0	50	8015B	03/19/10 20:35	heasler	Q48872
				Surrogate		% Recovery		Control Limits	
				aaa-TFT		100		55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-5-15
 Prism Sample ID: 274149
 COC Group: G0310488
 Time Collected: 03/12/10 14:40
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	78.1	%			1	SM2540 G	03/18/10 14:30	jbrayton	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	6.95	g			1	5035	03/17/10 0:00	lbrown	
Weight Bisulfate 2	6.78	g			1	5035	03/17/10 0:00	lbrown	
Weight Methanol	6.78	g			1	5035	03/17/10 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0045	0.0010	1	8260B	03/17/10 17:33	erussell	Q48791
1,1,2,2-Tetrachloroethane	0.0025 J	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
1,1,2-Trichloroethane	BRL	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
1,1-Dichloroethane	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
1,1-Dichloroethene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
1,1-Dichloropropene	BRL	mg/kg	0.0045	0.00094	1	8260B	03/17/10 17:33	erussell	Q48791
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0045	0.0015	1	8260B	03/17/10 17:33	erussell	Q48791
1,2,3-Trichloropropane	BRL	mg/kg	0.0045	0.0019	1	8260B	03/17/10 17:33	erussell	Q48791
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
1,2,4-Trimethylbenzene	0.0027 J	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
1,2-Dichlorobenzene	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
1,2-Dichloroethane	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
1,2-Dichloropropane	BRL	mg/kg	0.0045	0.0014	1	8260B	03/17/10 17:33	erussell	Q48791
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
1,3-Dichlorobenzene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
1,3-Dichloropropane	BRL	mg/kg	0.0045	0.00094	1	8260B	03/17/10 17:33	erussell	Q48791
1,4-Dichlorobenzene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
2,2-Dichloropropane	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
2-Chlorotoluene	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791

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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-5-15
 Prism Sample ID: 274149
 COC Group: G0310488
 Time Collected: 03/12/10 14:40
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.045	0.0014	1	8260B	03/17/10 17:33	erussell	Q48791
4-Chlorotoluene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.045	0.00099	1	8260B	03/17/10 17:33	erussell	Q48791
Acetone	BRL	mg/kg	0.045	0.0020	1	8260B	03/17/10 17:33	erussell	Q48791
Benzene	BRL	mg/kg	0.0027	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
Bromobenzene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
Bromochloromethane	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
Bromodichloromethane	BRL	mg/kg	0.0045	0.0010	1	8260B	03/17/10 17:33	erussell	Q48791
Bromoform	BRL	mg/kg	0.0045	0.00099	1	8260B	03/17/10 17:33	erussell	Q48791
Bromomethane	BRL	mg/kg	0.0091	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
Carbon tetrachloride	0.0021 J	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
Chlorobenzene	BRL	mg/kg	0.0045	0.0010	1	8260B	03/17/10 17:33	erussell	Q48791
Chlorodibromomethane	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
Chloroethane	BRL	mg/kg	0.0091	0.0024	1	8260B	03/17/10 17:33	erussell	Q48791
Chloroform	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
Chloromethane	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
cis-1,2-Dichloroethene	0.10	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
cis-1,3-Dichloropropene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
Dichlorodifluoromethane	BRL	mg/kg	0.0045	0.00094	1	8260B	03/17/10 17:33	erussell	Q48791
Ethylbenzene	BRL	mg/kg	0.0045	0.00094	1	8260B	03/17/10 17:33	erussell	Q48791
Isopropyl ether (IPE)	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
Isopropylbenzene	BRL	mg/kg	0.0045	0.0010	1	8260B	03/17/10 17:33	erussell	Q48791
m,p-Xylenes	BRL	mg/kg	0.0091	0.0024	1	8260B	03/17/10 17:33	erussell	Q48791
Methyl ethyl ketone (MEK)	0.012 J	mg/kg	0.091	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.0091	0.00094	1	8260B	03/17/10 17:33	erussell	Q48791
Methylene chloride	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
n-Butylbenzene	BRL	mg/kg	0.0045	0.0017	1	8260B	03/17/10 17:33	erussell	Q48791

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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-5-15
 Prism Sample ID: 274149
 COC Group: G0310488
 Time Collected: 03/12/10 14:40
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
Naphthalene	BRL	mg/kg	0.0091	0.0025	1	8260B	03/17/10 17:33	erussell	Q48791
o-Xylene	BRL	mg/kg	0.0045	0.0010	1	8260B	03/17/10 17:33	erussell	Q48791
p-Isopropyltoluene	BRL	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
sec-Butylbenzene	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
Styrene	BRL	mg/kg	0.0045	0.00088	1	8260B	03/17/10 17:33	erussell	Q48791
tert-Butylbenzene	BRL	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791
Tetrachloroethene	55	mg/kg	24	6.1	5000	8260B	03/19/10 13:02	erussell	Q48791
Toluene	BRL	mg/kg	0.0045	0.0011	1	8260B	03/17/10 17:33	erussell	Q48791
trans-1,2-Dichloroethene	BRL	mg/kg	0.0045	0.0009	1	8260B	03/17/10 17:33	erussell	Q48791
trans-1,3-Dichloropropene	BRL	mg/kg	0.0045	0.00091	1	8260B	03/17/10 17:33	erussell	Q48791
Trichloroethene	0.029	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
Trichlorofluoromethane	BRL	mg/kg	0.0045	0.0013	1	8260B	03/17/10 17:33	erussell	Q48791
Vinyl acetate	BRL	mg/kg	0.023	0.0031	1	8260B	03/17/10 17:33	erussell	Q48791
Vinyl chloride	0.0074	mg/kg	0.0045	0.0012	1	8260B	03/17/10 17:33	erussell	Q48791

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	97	67 - 143
Bromofluorobenzene	101	77 - 128

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) 6.1 J mg/kg 8.9 1.4 1 8015B 03/24/10 23:43 jvogel Q48980

Sample Preparation: 25.04 g / 1 mL 3545 03/23/10 10:00 jvogel P27083

Surrogate	% Recovery	Control Limits
o-Terphenyl	83	49 - 124

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 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-5-15
 Prism Sample ID: 274149
 COC Group: G0310488
 Time Collected: 03/12/10 14:40
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Sample Weight Determination</u>									
Weight 1	6.45	g			1	GRO	03/17/10 0:00	lbrown	
Weight 2	6.98	g			1	GRO	03/17/10 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	19	mg/kg	6.4	4.0	50	8015B	03/19/10 21:06	heasler	Q48872
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	102	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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Laboratory Report

03/26/10

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 c/o S&ME, Inc.
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 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-6-7.5
 Prism Sample ID: 274150
 COC Group: G0310488
 Time Collected: 03/12/10 14:58
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	76.5	%			1	SM2540 G	03/18/10 14:30	jbrayton	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	6.19	g			1	5035	03/17/10 0:00	lbrown	
Weight Bisulfate 2	6.29	g			1	5035	03/17/10 0:00	lbrown	
Weight Methanoi	6.68	g			1	5035	03/17/10 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
1,1,2-Trichloroethane	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
1,1-Dichloroethane	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
1,1-Dichloroethene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
1,1-Dichloropropene	BRL	mg/kg	0.0053	0.0011	1	8260B	03/17/10 18:06	erussell	Q48791
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0053	0.0017	1	8260B	03/17/10 18:06	erussell	Q48791
1,2,3-Trichloropropane	BRL	mg/kg	0.0053	0.0022	1	8260B	03/17/10 18:06	erussell	Q48791
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
1,2-Dichlorobenzene	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
1,2-Dichloroethane	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
1,2-Dichloropropane	BRL	mg/kg	0.0053	0.0016	1	8260B	03/17/10 18:06	erussell	Q48791
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
1,3-Dichlorobenzene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
1,3-Dichloropropane	BRL	mg/kg	0.0053	0.0011	1	8260B	03/17/10 18:06	erussell	Q48791
1,4-Dichlorobenzene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
2,2-Dichloropropane	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
2-Chlorotoluene	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791

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Laboratory Report

03/26/10

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 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-6-7.5
 Prism Sample ID: 274150
 COC Group: G0310488
 Time Collected: 03/12/10 14:58
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.053	0.0016	1	8260B	03/17/10 18:06	erussell	Q48791
4-Chlorotoluene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
Acetone	BRL	mg/kg	0.053	0.0023	1	8260B	03/17/10 18:06	erussell	Q48791
Benzene	BRL	mg/kg	0.0032	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
Bromobenzene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
Bromochloromethane	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
Bromodichloromethane	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
Bromoform	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
Bromomethane	BRL	mg/kg	0.011	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
Carbon tetrachloride	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
Chlorobenzene	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
Chlorodibromomethane	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
Chloroethane	BRL	mg/kg	0.011	0.0027	1	8260B	03/17/10 18:06	erussell	Q48791
Chloroform	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
Chloromethane	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
cis-1,2-Dichloroethene	0.0063	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
cis-1,3-Dichloropropene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
Dichlorodifluoromethane	BRL	mg/kg	0.0053	0.0011	1	8260B	03/17/10 18:06	erussell	Q48791
Ethylbenzene	BRL	mg/kg	0.0053	0.0011	1	8260B	03/17/10 18:06	erussell	Q48791
Isopropyl ether (IPE)	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
Isopropylbenzene	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
m,p-Xylenes	BRL	mg/kg	0.011	0.0028	1	8260B	03/17/10 18:06	erussell	Q48791
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.0011	1	8260B	03/17/10 18:06	erussell	Q48791
Methylene chloride	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
n-Butylbenzene	BRL	mg/kg	0.0053	0.0019	1	8260B	03/17/10 18:06	erussell	Q48791

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

Laboratory Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-6-7.5
 Prism Sample ID: 274150
 COC Group: G0310488
 Time Collected: 03/12/10 14:58
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
Naphthalene	BRL	mg/kg	0.011	0.0029	1	8260B	03/17/10 18:06	erussell	Q48791
o-Xylene	BRL	mg/kg	0.0053	0.0012	1	8260B	03/17/10 18:06	erussell	Q48791
p-Isopropyltoluene	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
sec-Butylbenzene	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
Styrene	BRL	mg/kg	0.0053	0.0010	1	8260B	03/17/10 18:06	erussell	Q48791
tert-Butylbenzene	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791
Tetrachloroethene	0.23	mg/kg	0.20	0.063	50	8260B	03/19/10 13:41	erussell	Q48791
Toluene	BRL	mg/kg	0.0053	0.0013	1	8260B	03/17/10 18:06	erussell	Q48791
trans-1,2-Dichloroethene	BRL	mg/kg	0.0053	0.0010	1	8260B	03/17/10 18:06	erussell	Q48791
trans-1,3-Dichloropropene	BRL	mg/kg	0.0053	0.0011	1	8260B	03/17/10 18:06	erussell	Q48791
Trichloroethene	0.020	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
Trichlorofluoromethane	BRL	mg/kg	0.0053	0.0015	1	8260B	03/17/10 18:06	erussell	Q48791
Vinyl acetate	BRL	mg/kg	0.026	0.0036	1	8260B	03/17/10 18:06	erussell	Q48791
Vinyl chloride	BRL	mg/kg	0.0053	0.0014	1	8260B	03/17/10 18:06	erussell	Q48791

Surrogate	% Recovery	Control Limits
Toluene-d8	99	81 - 128
Dibromofluoromethane	102	67 - 143
Bromofluorobenzene	97	77 - 128

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO) 94 mg/kg 9.1 1.5 1 8015B 03/24/10 17:09 jvoegel Q48980

Sample Preparation: 25.1 g / 1 mL 3545 03/23/10 10:00 jvoegel P27083

Surrogate	% Recovery	Control Limits
o-Terphenyl	68	49 - 124

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Laboratory Report

03/26/10

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 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1
 Sample Matrix: Soil

Client Sample ID: P-6-7.5
 Prism Sample ID: 274150
 COC Group: G0310488
 Time Collected: 03/12/10 14:58
 Time Submitted: 03/15/10 17:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Sample Weight Determination</u>									
Weight 1	6.86	g			1	GRO	03/17/10 0:00	lbrown	
Weight 2	6.31	g			1	GRO	03/17/10 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	4.1	50	8015B	03/19/10 21:37	heaster	Q48872
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	99	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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Level II QC Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1

COC Group Number: G0310488
 Date/Time Submitted: 03/15/10 17:20

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q48791
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q48791
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q48791
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q48791
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q48791
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q48791
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q48791
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q48791
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q48791
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q48791
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q48791
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q48791
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q48791
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q48791
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q48791
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q48791
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q48791
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q48791
2-Hexanone	ND	0.05	<0.025	mg/kg	Q48791
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q48791
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q48791
Acetone	ND	0.05	<0.025	mg/kg	Q48791
Benzene	ND	0.003	<0.0015	mg/kg	Q48791
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q48791
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q48791
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q48791
Bromoform	ND	0.005	<0.0025	mg/kg	Q48791
Bromomethane	ND	0.01	<0.005	mg/kg	Q48791
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q48791
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q48791
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q48791
Chloroethane	ND	0.01	<0.005	mg/kg	Q48791

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NC Certification No. 402
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Level II QC Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1

COC Group Number: G0310488
 Date/Time Submitted: 03/15/10 17:20

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg	Q48791
Chloromethane	ND	0.005	<0.0025	mg/kg	Q48791
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q48791
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q48791
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q48791
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q48791
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q48791
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q48791
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q48791
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q48791
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
Naphthalene	ND	0.01	<0.005	mg/kg	Q48791
o-Xylene	ND	0.005	<0.0025	mg/kg	Q48791
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q48791
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
Styrene	ND	0.005	<0.0025	mg/kg	Q48791
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q48791
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q48791
Toluene	ND	0.005	<0.0025	mg/kg	Q48791
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q48791
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q48791
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q48791
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q48791
Vinyl acetate	ND	0.025	<0.0125	mg/kg	Q48791
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q48791

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	0.04245	0.05	mg/kg	85	70-154	Q48791
Benzene	0.04537	0.05	mg/kg	91	77-128	Q48791
Chlorobenzene	0.03909	0.05	mg/kg	78	78-119	Q48791
Toluene	0.04344	0.05	mg/kg	87	76-131	Q48791
Trichloroethene	0.04783	0.05	mg/kg	96	77-133	Q48791

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Level II QC Report

03/26/10

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 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1

COC Group Number: G0310488
 Date/Time Submitted: 03/15/10 17:20

Matrix Spike			Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units		
274085 1,1-Dichloroethene	0.03986	0.05	mg/kg	80	65-162 Q48791
Benzene	0.04283	0.05	mg/kg	86	73-131 Q48791
Chlorobenzene	0.03639	0.05	mg/kg	73 #	76-119 Q48791
Toluene	0.04137	0.05	mg/kg	83	72-135 Q48791
Trichloroethene	0.04405	0.05	mg/kg	88	72-133 Q48791

Matrix Spike Duplicate			Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount	Units				
274085 1,1-Dichloroethene	0.04324	0.05	mg/kg	86	65-162	8	0 - 20 Q48791
Benzene	0.04625	0.05	mg/kg	93	73-131	8	0 - 17 Q48791
Chlorobenzene	0.03984	0.05	mg/kg	80	76-119	9	0 - 20 Q48791
Toluene	0.04468	0.05	mg/kg	89	72-135	8	0 - 18 Q48791
Trichloroethene	0.04762	0.05	mg/kg	95	72-133	8	0 - 17 Q48791

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

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q48872

Laboratory Control Sample			Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units		
Gasoline Range Organics (GRO)	52.50	50	mg/kg	105	67-116 Q48872

Matrix Spike			Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount	Units		
274147 Gasoline Range Organics (GRO)	45.30	50	mg/kg	91	57-113 Q48872

Matrix Spike Duplicate			Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount	Units				
274147 Gasoline Range Organics (GRO)	45.40	50	mg/kg	91	57-113	0	0 - 23 Q48872

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Level II QC Report

03/26/10

N.C. Department of Transportation
 Attn: Michael Pfeifer
 c/o S&ME, Inc.
 3201 Spring Forest Road
 Raleigh, NC 27616

Project Name: Bridge 338 NCDOT No. B-4820
 Project ID: NCDOT Elkin
 Project No.: WBS#38590.1.1

COC Group Number: G0310488
 Date/Time Submitted: 03/15/10 17:20

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

Method Blank							QC Batch ID	
	Result	RL	Control Limit	Units				
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg			Q48980	
Laboratory Control Sample								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		QC Batch ID	
Diesel Range Organics (DRO)	67.3	80	mg/kg	84	55-109		Q48980	
Matrix Spike								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %		QC Batch ID	
274400 Diesel Range Organics (DRO)	177	80	mg/kg	107	50-117		Q48980	
Matrix Spike Duplicate								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
274400 Diesel Range Organics (DRO)	196	80	mg/kg	131 #	50-117	10	0 - 24	Q48980

#-See Case Narrative



Full-Service Analytical & Environmental Solutions

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

Client Company Name: S&ME, Inc
Report To/Contact Name: Michael Pfeifer
Reporting Address: 3201 Spring Forest Road
Raleigh NC 27616

Phone: 919-879-2666 Fax (Yes) (No):
Email (Yes) (No) Email Address: m.pfeifer@smeinc.com
EDD Type: PDF Excel Other
Site Location Name: Bridge 338 NC DOT No B-4820
Site Location Physical Address: 264 E. Market St
and 108 E. Main Street, Elkton, N.C.

CHAIN OF CUSTODY RECORD

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

Project Name: NC DOT No. B-4820
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I, II, III, IV) provisions and/or QC Requirements
Invoice To: NC DOT
Address: _____

Purchase Order No./Billing Reference: WBS Element 38590.1.1
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY		YES	NO	N/A
Samples INTACT upon arrival?	<u>4.9</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp	<u>4.9</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OBT HEADSPACE?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED			REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE		GRD	DRD	8260		
P-1-10	3-12-10	12:05	soil	CG	1	40g	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			274146
					1	8g	None					
					2	40 ml	Methocel					
P-2-10	3-12-10	12:33	soil	CG	1	4g	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			274147
					1	8g	None					
					2	40 ml	Methocel					
P-4-12.5	3-12-10	13:20	soil	CG	1	40g	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		274148
					1	8g	None					
					2	40 ml	Methocel					
P-5-15	3-12-10	14:40	soil	CG	1	8g	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		274149
					1	8g	None					
					2	40 ml	Methocel					
P-6-7.5	3-12-10	14:58	soil	CG	1	4g	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		274150
					1	8g	None					
					2	40 ml	Methocel					

Sampler's Signature: [Signature] Sampled By (Print Name): Lyndal Bather Affiliation: S&ME, Inc

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) <u>[Signature]</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>3/15/10</u>	Military/Hours <u>1350</u>
Relinquished By: (Signature) <u>[Signature]</u>	Received By: (Signature) <u>[Signature]</u>	Date <u>3/15/10</u>	Military/Hours <u>1720</u>
Relinquished By: (Signature) _____	Received For Prism Laboratories By: <u>[Signature]</u>	Date <u>3/15/10</u>	Military/Hours <u>1720</u>

Additional Comments:

PRISM USE ONLY	
Site Arrival Time	
Site Departure Time	
Field Collection	
Mileage	

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hand-delivered Prism Field Service Other
COC Group No. G0310483

NPDES: <input type="checkbox"/> NC <input type="checkbox"/> SC	UST: <input type="checkbox"/> NC <input type="checkbox"/> SC	GROUNDWATER: <input type="checkbox"/> NC <input type="checkbox"/> SC	DRINKING WATER: <input type="checkbox"/> NC <input type="checkbox"/> SC	SOLID WASTE: <input type="checkbox"/> NC <input type="checkbox"/> SC	RCRA: <input type="checkbox"/> NC <input type="checkbox"/> SC	CERCLA: <input type="checkbox"/> NC <input type="checkbox"/> SC	LANDFILL: <input type="checkbox"/> NC <input type="checkbox"/> SC	OTHER: <input type="checkbox"/> NC <input type="checkbox"/> SC
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*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL