### PRELIMINARY SITE ASSESSMENT

ANNIE SPEAS PROPERTY – PARCEL 069 FORMER DENSON'S AUTO SALVAGE 140 - 144 RAY ROAD SPRING LAKE, HARNETT COUNTY, NORTH CAROLINA

> STATE PROJECT: U-3465 WBS ELEMNT: 39017.1.1 OCTOBER 23, 2012

Report prepared for:

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C257 –Geology C-1251 - Engineering

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## PRELIMINARY SITE ASSESSMENT ANNIE SPEAS PROPERTY – PARCEL 069 FORMER DENSON'S AUTO SALVAGE SPRING LAKE, HARNETT COUNTY, NORTH CAROLINA

### 1.0 Introduction

Pyramid Environmental & Engineering P.C. (Pyramid) has prepared this Preliminary Site Assessment (PSA) report documenting background information, field activities, assessment activities, findings, conclusions, and recommendations for the Annie Speas Property (Parcel 069). The Annie Speas Property (Parcel 069) is currently vacant, but a former auto salvage business (Denson's Auto Salvage) was located at 140 - 144 Ray Road, Spring Lake, Harnett County, North Carolina. This preliminary site assessment was conducted on behalf of the North Carolina Department of Transportation (NCDOT) in accordance with Pyramid's August 17, 2012 technical proposal.

The purpose of this assessment was to determine the presence or absence of underground storage tanks (USTs) and impacted soils at the subject property in the proposed right-of-way and construction easement areas related to the widening of Ray Road (State Project U-3465). The location of the subject site is shown on **Figure 1**, and a site map is presented as **Figure 2**. **Figure 3** presents a scaled out perspective of the entire Parcel showing property boundaries, property owner name, and station number/alignment, form the NCDOT engineering files provided to Pyramid.

### 1.1 Background Information

Based on the NCDOT's July 23, 2012, *Request for Technical and Cost Proposal*, the PSA was conducted within the NCDOT right of way (ROW), easements, or proposed utility easements. The PSA included the following:

- Research the property for past uses and possible releases.
- Conduct a preliminary geophysical site assessment and limited soil assessment in the proposed ROW and easements.
- Report the depth to groundwater and obtain one groundwater sample for the site for laboratory analysis by installing a temporary monitoring well.

### **1.2 Project Information**

Prior to field activities, a Health and Safety Plan was prepared. Prior to drilling activities, the public underground utilities were located and marked by the North Carolina One-Call Service. A private utility locator, Northstate Utility Locating Incorporated of Colfax, North Carolina was used to mark the on site private, buried utilities.

As stated previously, the Annie Speas Property (Parcel 069) is currently vacant. Previously, the property was occupied by an auto salvage business (Denson's Auto Salvage).

Pyramid also completed PSAs for an additional six properties along Ray Road (Parcel #'s 004, 009, 019, 021, 022, and 038). As requested by the NCDOT, Pyramid prepared separate PSA reports for each property.

### 2.0 Site History

Pyramid completed a records review, NCDENR file review, interviewed NCDENR personnel, and reviewed aerial photographs in order to determine past uses of the property. Pyramid reviewed the 1938, 1955, 1964, 1971, 1993, 1999, and 2010 aerial photographs for past uses. The 1955, 1964, 1971, 1993, 2010 aerial photographs are included in **Appendix A**. Historical information reviewed as part of the PSA indicated that the subject site was first developed for commercial use between 1971 and 1993. The earliest aerial to show the salvage yard was the 1993 aerial. The 1938 air photo shows the property to be undeveloped wooded land. The 1955 aerial photograph showed the trees were cleared from the property, and the property was most likely used for agricultural purposes. The 1955, 1964, and 1971 aerial photographs indicate the land was most likely used for agricultural purposes.

On September 4, 2012, Pyramid interviewed Mr. James Brown, the incident manager for Harnett County with the NCDENR UST Section. Mr. Brown stated no incidents or releases were in the state database for the site.

As part of the PSA, a background review to identify onsite and potential off-site sources of environmental contamination was performed. The background review included Federal and Non-Federal database searches. FirstSearch Technology Corporation, a commercially available database service was used for the search. Pyramid ordered a road corridor search for the Ray Road sites. The database search did not list Parcel 069 in any Federal, Non-Federal or State database. The Environmental FirstSearch Report is included in **Appendix B**.

### 3.0 Geophysical Investigation

Geophysical investigation results indicate there are no metallic Underground Storage Tanks located on the property. Using a combination of electromagnetic (EM61) and Ground Penetrating Radar (GPR) methods, Pyramid obtained reliable geophysical data. Several EM61 anomalies were directly attributable to objects that were visible at the ground surface. Several additional EM61 anomalies (mostly low amplitude) were

recorded throughout the survey area that could not be attributed to visible objects at the ground surface. However, the GPR surveys did not indicate the presence of any metallic USTs associated with the EM61 responses.

The geophysical investigation suggests that the proposed ROW and easement areas at the property do <u>not</u> contain metallic USTs. The full details of the geophysical investigation are included in the Geophysical Investigation Report as **Appendix C**.

### 4.0 Soil Sampling Activities & Results

### **4.1 Soil Assessment Field Activities**

On September 13, 2012, Pyramid mobilized to the site to drill soil borings, install a temporary monitoring well, and collect the proposed soil samples and groundwater samples for the PSA. The soil borings and temporary well were completed using a track mounted Geoprobe® Direct-Push rig. Three (3) soil borings (69-1, 69-2, and 69-3) were advanced on the subject property between the NCDOT ROW and Easement. The selected locations were chosen to avoid public utilities along Ray Road and private utilities associated with the former business. The locations of the borings are shown on **Figure 2**.

Soil samples were continuously collected in five foot long disposable sleeves from each boring for geologic description, and visual examination for signs of contamination. Soil recovered from each sleeve was field screened using a Photo-Ionization Detector (PID) every 2 to 2.5 feet depending on the soil recovery of each sleeve. In general, the soil sample with the highest PID readings was selected from each boring for laboratory analysis. The soil boring logs with the soil descriptions, visual examination, and PID screening results are included in **Appendix D**. The PID field screening results are summarized in **Table 1**.

In order to prevent cross contamination, new disposable nitrile gloves were worn by the sampling technician during the sampling activities, and were changed between samples. The soil samples selected for laboratory analyses were placed in laboratory prepared containers and shipped to SGS Laboratories in Wilmington, NC. The selected soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) by EPA Method 8015C/5035 and diesel range organics (DRO) by EPA Method 8015C/3541.

### **4.2 Soil Sample Analytical Results**

The laboratory results for soil samples 69-1(5-7.5), 69-2(0-2), and 69-3(5-7.5) did not detect any TPH-DRO or TPH-GRO above laboratory detection limits. The soil sample laboratory results are summarized in **Table 2**. A copy of the laboratory report and chain-of-custody is included in **Appendix E**.

### 4.3 Temporary Monitoring Well Installation

On September 13, 2012, Pyramid converted soil boring 69-3 into a 1-inch diameter temporary monitoring well. Soil boring 69-3 was completed to a total depth of 36 feet bls. The temporary well was constructed with 26 feet of 1-inch diameter of schedule 80 PVC casing and 10 feet of 1-inch diameter of schedule 80 PVC slotted screen. The temporary well was set in the boring with 10 feet of slotted screen at the bottom of the well.

On September 13, 2012, temporary monitoring well 69-3 was gauged using a properly decontaminated electric water level probe. The depth-to-groundwater was gauged at 33 feet bls. The temporary monitoring well was sampled using a new 1-inch disposal bailer. After the well was gauged and sampled, the temporary monitoring well was properly abandoned by the drillers by removing all the casing, and filling the bore hole with bentonite chips and portland cement.

### **4.4 Groundwater Analytical Results**

The groundwater sample 69-3(TW) was placed in laboratory prepared containers for analysis of volatile organic compounds (VOCs) by EPA Method 6200B, and the sample was shipped to SGS Laboratories in Wilmington, NC. The laboratory results detected compounds benzene (0.54  $\mu$ g/l), styrene (0.23  $\mu$ g/l), toluene (0.49  $\mu$ g/l), and total xylenes (1.09  $\mu$ g/l) above laboratory detection limits, but below the NCAC 2L Groundwater Standards for each compound. No other compounds were detected above laboratory limits. The groundwater results for sample 69-3(TW) are summarized in **Table 3**. A copy of the laboratory report and chain-of-custody is included in **Appendix E**.

### 5.0 Conclusions and Recommendations

As requested by NCDOT, Pyramid has completed a PSA at Parcel 069 located 140 – 144 Ray Road, Harnett County, Spring Lake, NC. The following is a summary of the assessment activities and results.

### **5.1 Geophysical Investigation**

The geophysical investigation suggests that the proposed ROW and easement areas at the property do <u>not</u> contain metallic USTs. Several anomalies were detected related to visible objects, such as a power pole and utility box, a metal mailbox, and a power pole and metal guy wire. The remaining EM61 anomalies were likely the result of isolated buried metallic debris. GPR scans performed across all anomalies not clearly associated with metallic objects at the ground surface provided no evidence of metallic USTs.

### 5.2 Limited Soil Assessment

The laboratory results for soil samples 69-1(5-7.5), 69-2(0-2), and 69-3(5-7.5) did not detect any TPH-DRO or TPH-GRO above laboratory detection limits.

### **5.3 Limited Groundwater Assessment**

Soil boring 69-3 was converted into a 1-inch diameter temporary monitoring well to a depth total depth of 36 feet bls. The depth-to-groundwater was gauged at 33 feet bls. The laboratory results detected compounds benzene (0.54  $\mu$ g/l), styrene (0.23  $\mu$ g/l), toluene (0.49  $\mu$ g/l), and total xylenes (1.09  $\mu$ g/l) above laboratory detection limits, but below the NCAC 2L Groundwater Standards for benzene (1.0  $\mu$ g/l), styrene (70  $\mu$ g/l), toluene (600  $\mu$ g/l), and total xylenes (500  $\mu$ g/l). No other compounds were detected above laboratory limits.

### **5.4 Recommendations**

During road construction activities, it is possible the NCDOT may encounter trash and debris from the former auto salvage yard spread across the site.

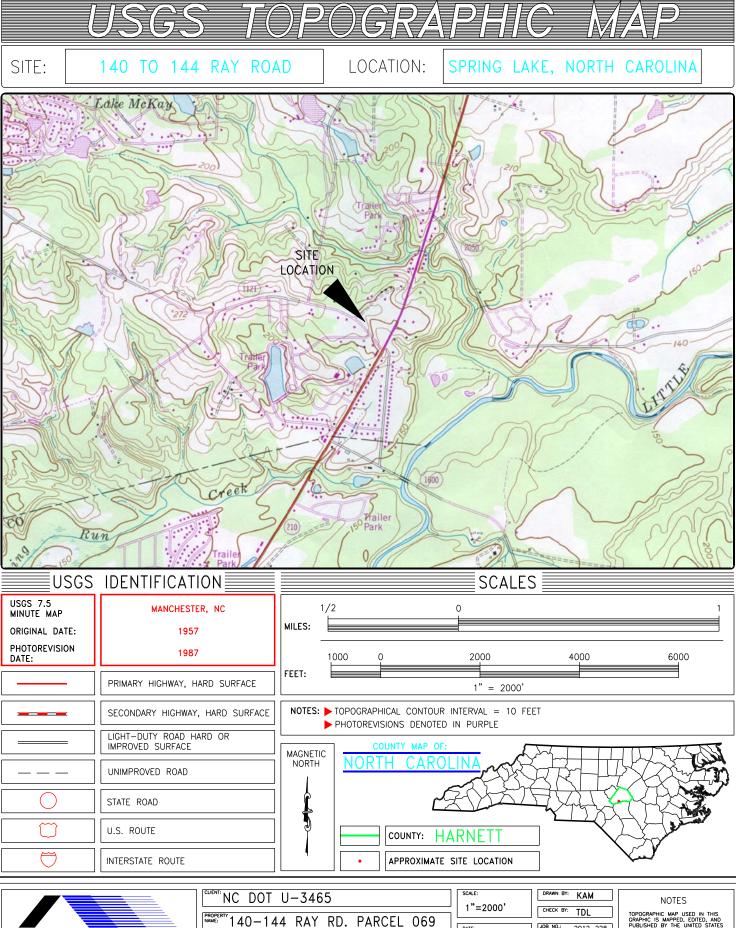
### 6.0 Limitations

The results of this preliminary investigation are limited to the boring locations completed during this limited assessment and presented in this report. The laboratory results only reflect the current conditions at the locations sampled on the date this Preliminary Site Assessment was performed.

### 7.0 Closure

This report was prepared for, and is available solely for use by NCDOT and their designees. The contents thereof may not be used or relied upon by any other person without the express written consent and authorization of Pyramid Environmental & Engineering, P.C. (Pyramid). The observations, conclusions, and recommendations documented in this report are based on site conditions and information reviewed at the time of Pyramid's investigation. Pyramid appreciates the opportunity to provide this environmental service.

# **FIGURES**



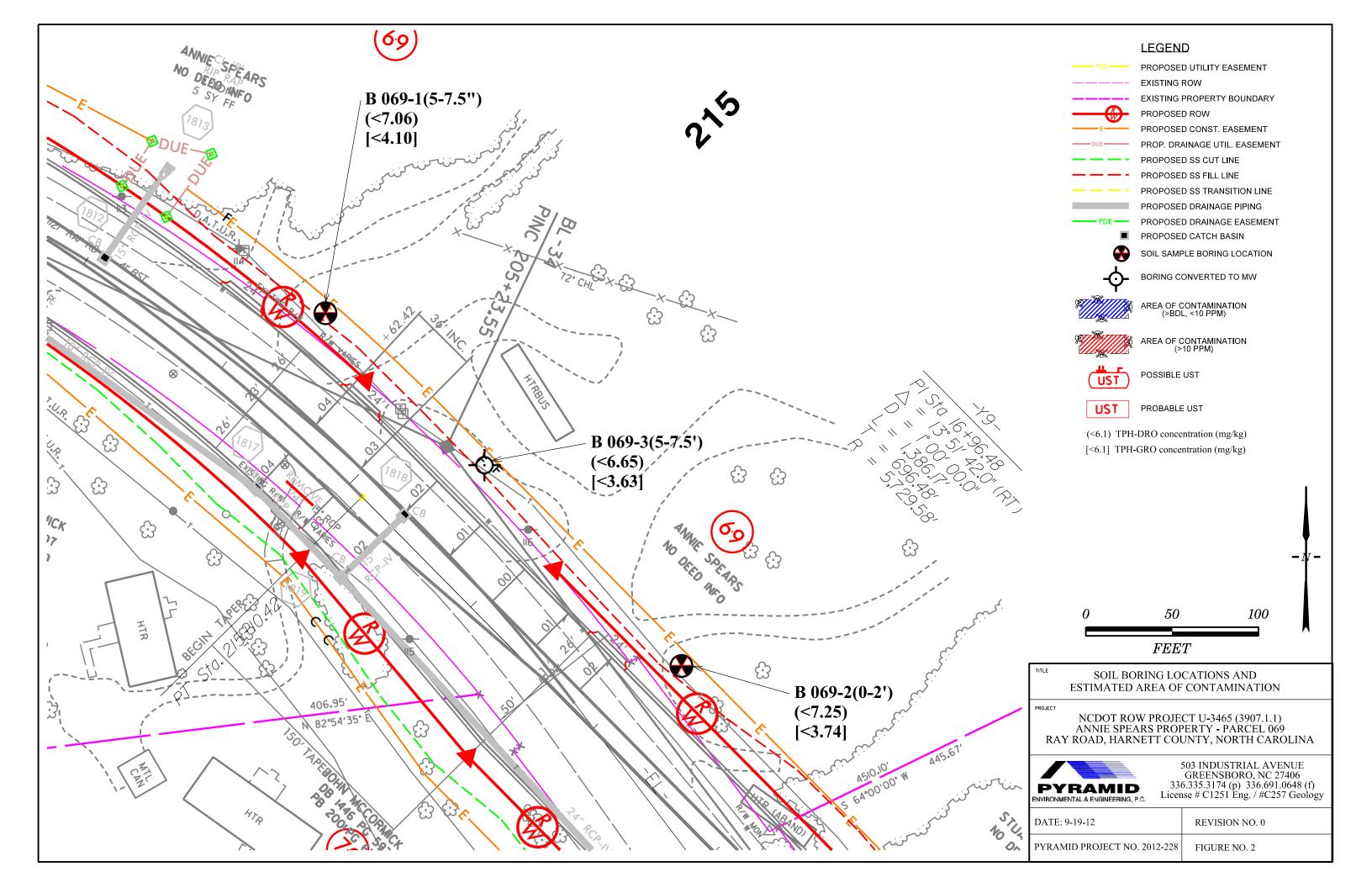


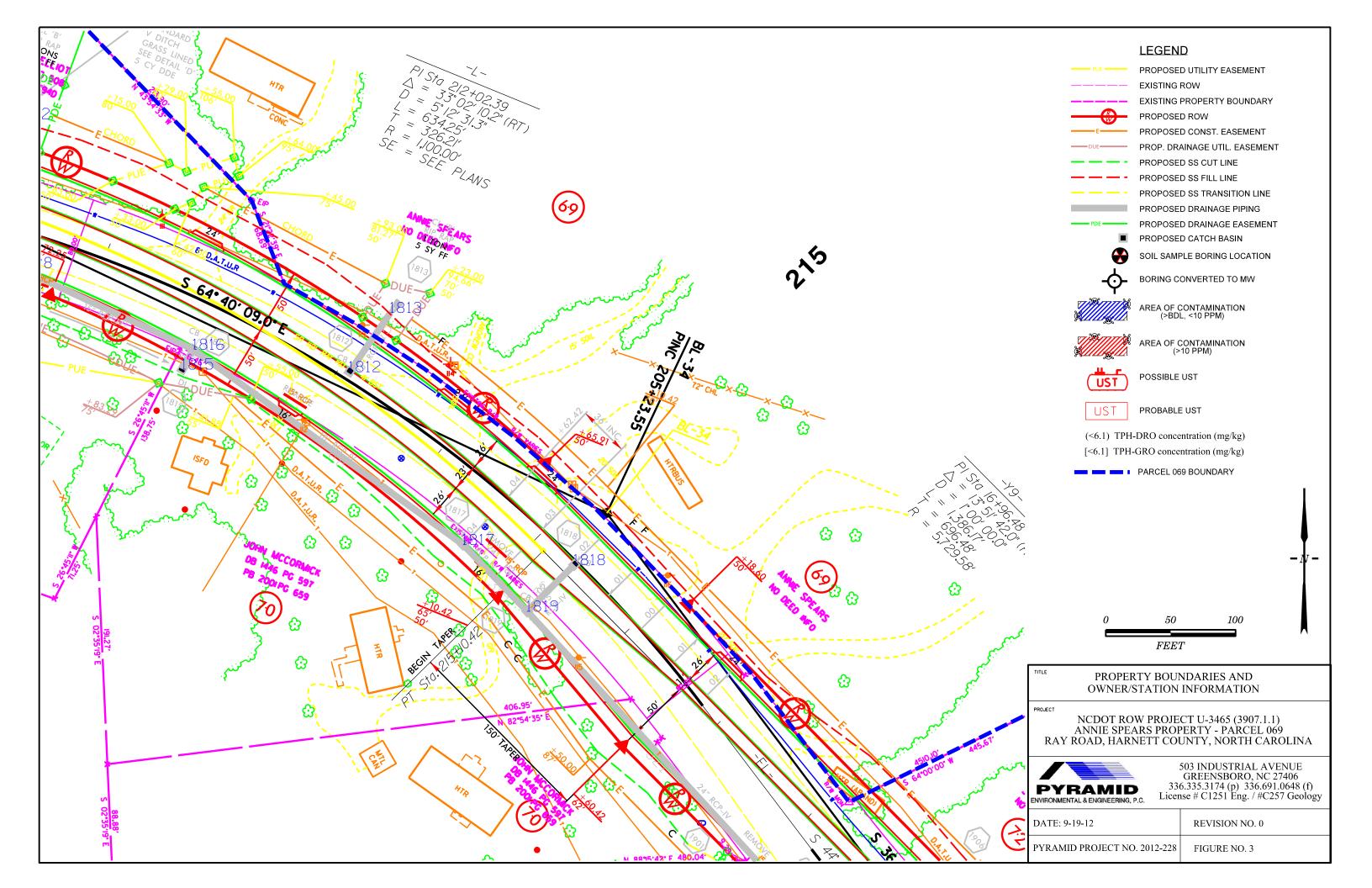
NC DOT U-346	55
PROPERTY 140-144 RAY	RD. PARCEL 069
CITY: SPRING LAKE	STATE: NORTH CAROLINA
TOPOGRAPHIC	C MAP



TOPOGRAPHIC MAP USED IN THIS GRAPHIC IS MAPPED, EDITED, AND PUBLISHED BY THE UNITED STATES GEOLOGIC SURVEY, DEPARTMENT OF THE INTERIOR, RESTON VIRGINIA.

THIS MAP COMPULES WITH NATIONAL MAP ACCURACY STANDARDS.





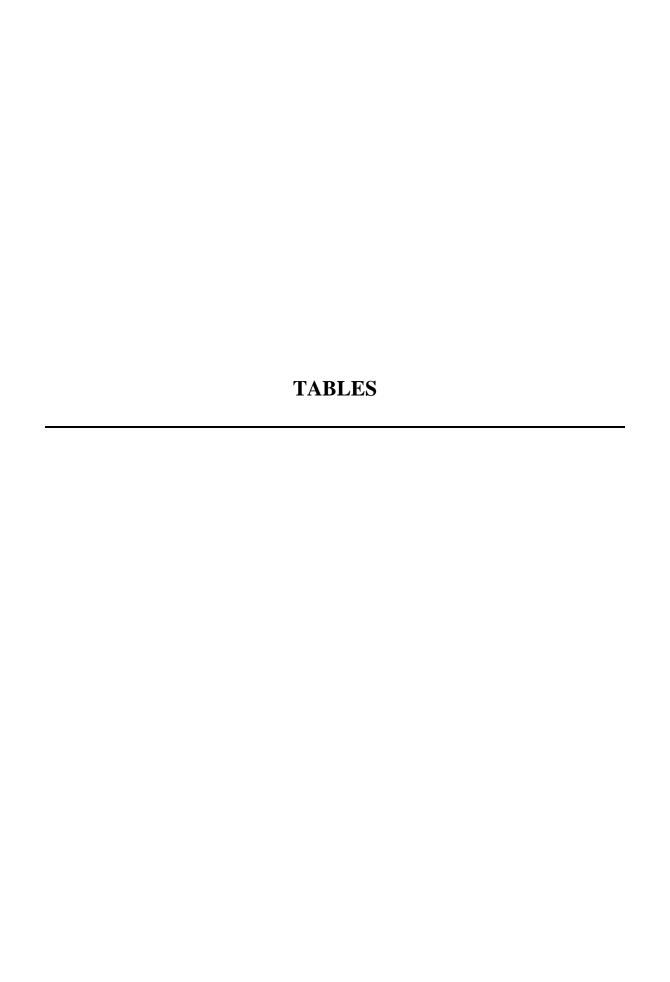


TABLE 1
Summary of PID Screening Results
NCDOT Project U-3465
140 - 144 Ray Road - Parcel 069
Harnett County, Spring Lake, North Carolina

SOIL BORING	SAMPLE ID	DEPTH	PID
		(feet bgs)	READINGS (PPM)
	69-1(1-3)	1 to 3	10
69-1	69-1(3-5)	3 to 5	0
	69-1(5-7.5)	5 to 7.5	75
	69-1(7.5-10)	7.5 to10	70
	69-2(0-2)	0 to 2	100
69-2	69-2(3-5)	3 to 5	95
	69-2(5-7.5)	5 to 7.5	100
	69-2(7.5-10)	7.5 to10	85
	69-3(0-2)	0 to 2	20
69-3	69-3(2-5)	2 to 5	75
	69-3(5-7.5)	5 to 7.5	95
	69-3(7.5-10)	7.5 to 10	89

bgs= below ground surface
PID= photo-ionization detector

PPM= parts-per-million

### **TABLE 2**

### Summary of Soil Sample µg/IAnalytical Results

NCDOT Project U-3465

140 - 144 Ray Road - Parcel 069 Harnett County, Spring Lake, North Carolina

SAMPLE ID	DATE	DEPTH (feet)	PID (ppm)	EPA Method 3550 DRO (mg/kg)	EPA Method 5035 GRO (mg/kg)
69-1(5-7.5)	9/13/2012	5 to 7.5	75	<7.06	<4.10
69-2(0-2)	9/13/2012	0 to 2	100	<7.25	<3.74
69-3(5-7.5)	9/13/2012	5 to 7.5	95	<6.65	<3.63
	leanup Level 5/5030-GRO;		10	10	

PID= photo-ionizaton detector

PPM= parts-per-million

GRO= Gasoline Range Organics

DRO= Diesel Range Organics

mg/kg= micograms-per-kilogram

### **TABLE 3**

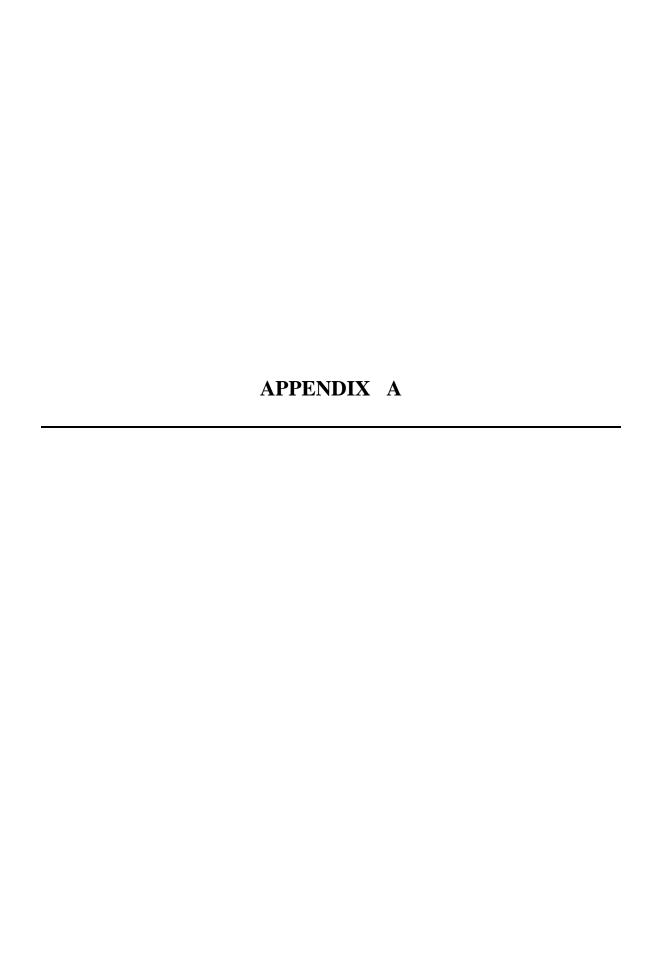
### Summary of Groundwater Analytical Results NCDOT Project U-3465

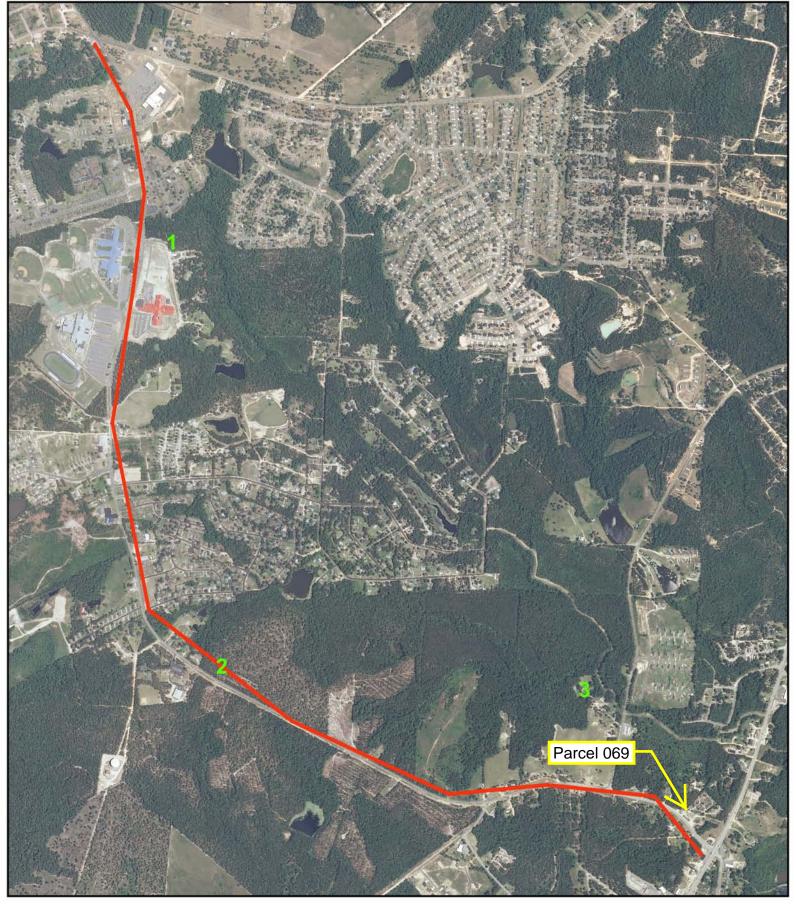
140 - 144 Ray Road - Parcel 069 Harnett County, Spring Lake, North Carolina

		SAMPLE ID	
PARAMETER	UNITS		GROUNDWATER
		69-3(TW)	STANDARD
EPA Method 6200B; Sample Co	llection Da	ate: 9/12/12	
Benzene	ug/L	0.54	1
Chloroform	ug/L	ND	70
Diisopropyl Ether (IPE)	ug/L	ND	70
Ethyl Benzene	ug/L	ND	600
Isopropylbenzene (Cumene)	ug/L	ND	70
Naphthalene	ug/L	ND	6
Styrene	ug/L	0.23	70
Toluene	ug/L	0.49	600
Total Xylenes	ug/L	1.09	500
n-Propylbenzene	ug/L	ND	70
sec-Butylbenzene	ug/L	ND	70
tert-Butyl methyl ether (MTBE)	ug/L	ND	20
tert-Butylbenzene	ug/L	ND	70
1,2,4-Trimethylbenzene	ug/L	ND	400
1,2-Dichloroethane	ug/L	ND	0.4
1,3,5-Trimethylbenzene	ug/L	ND	400
4-Isopropyltoluene	ug/L	ND	25
All Other Parameters	ug/L	ND	NA

ug/L= micrograms-per-liter

ND= Not Detected NA= Not Applicable

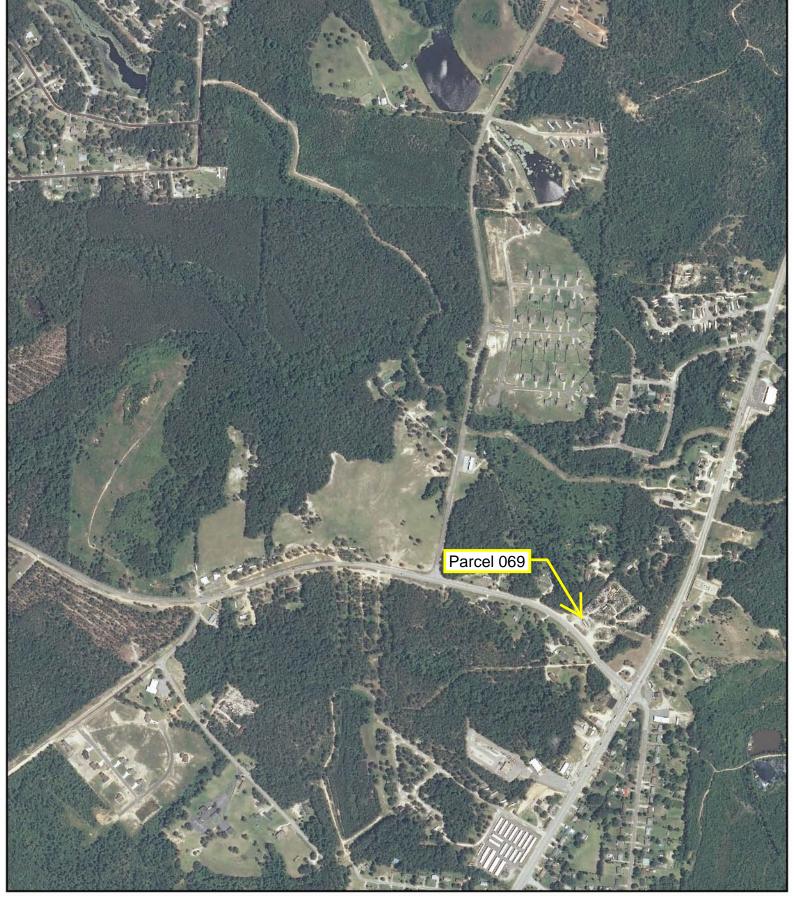






Historical Aerial Photo 2010 - REFERENCE MOSAIC SR 1121 FROM NC 210 TO SR 1120 SPRING LAKE, NC 28390

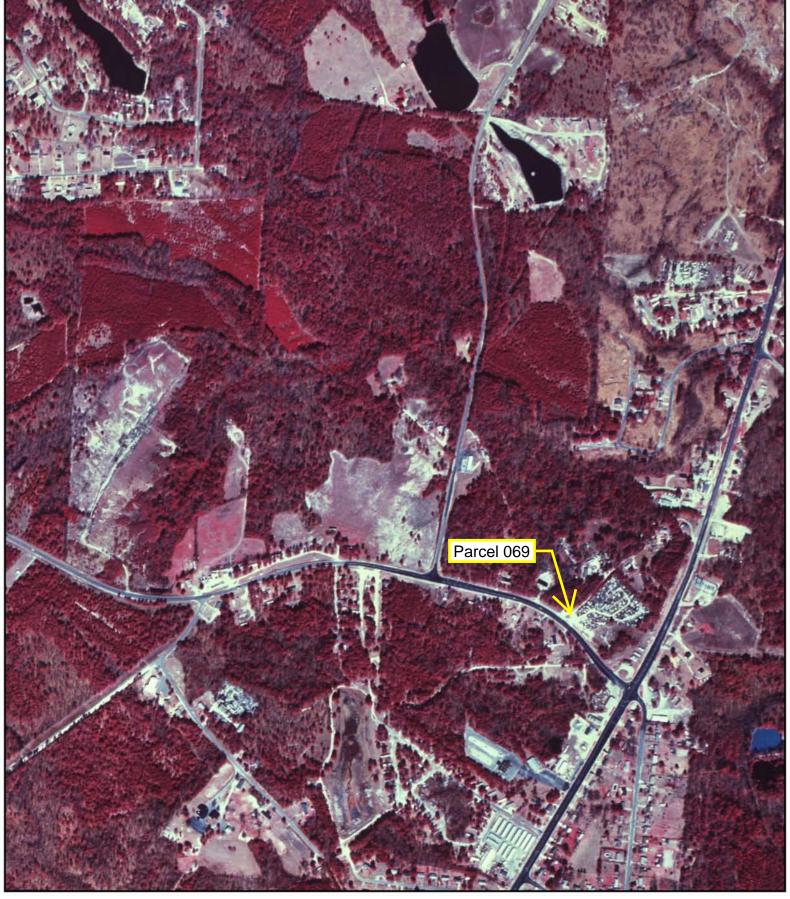






Historical Aerial Photo 2010 - SECTION 3

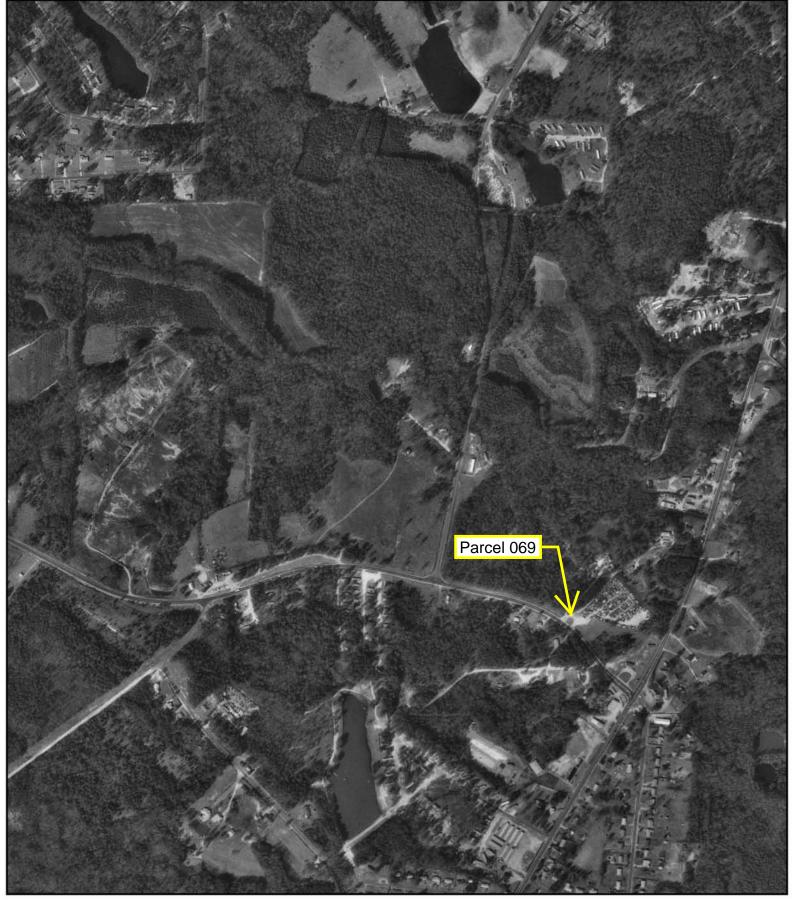






Historical Aerial Photo 1999 - SECTION 3







Historical Aerial Photo 1993 - SECTION 3







Historical Aerial Photo 1971 - SECTION 3







Historical Aerial Photo 1964 - SECTION 3







Historical Aerial Photo 1955 - SECTION 3







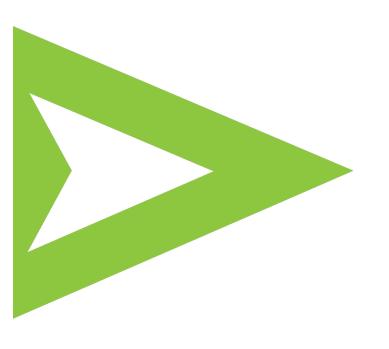
Historical Aerial Photo 1938 - SECTION 3



## APPENDIX B



### ENVIRONMENTAL FIRSTSEARCH REPORT



### **TARGET PROPERTY:**

**NCDOT PROJECT U-3465** 

SR 1121 - NC 210 - SR 1120

**SPRING LAKE, NC 28390** 

**JOB NUMBER: 2012-228** 

**PREPARED FOR:** 

Pyramid Environmental & Engineering, PC

503 Industrial Ave. Greensboro, NC 27406 September 6, 2012

### Environmental FirstSearch Search Summary Report

**Target Site:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS	
										•	
NPL .	Υ	07-09-12	1.00	0	0	0	0	0	0	0	
NPL Delisted	Υ	07-09-12	0.50	0	0	0	0	-	0	0	
CERCLIS	Υ	08-01-12	0.50	0	0	0	0	-	0	0	
NFRAP	Υ	08-01-12	0.50	0	0	0	0	-	0	0	
RCRA COR ACT	Υ	07-10-12	1.00	0	0	0	0	0	0	0	
RCRA TSD	Υ	07-10-12	0.50	0	0	0	0	-	0	0	
RCRA GEN	Υ	07-10-12	0.25	0	0	0	-	-	0	0	
Federal Brownfield	Υ	07-15-12	0.25	0	0	0	-	-	0	0	
ERNS	Υ	07-05-12	0.12	0	0	-	-	-	1	1	
Tribal Lands	Υ	12-15-08	1.00	0	0	0	0	0	1	1	
State/Tribal Sites	Υ	06-08-12	1.00	0	0	0	0	0	0	0	
State Spills 90	Υ	06-01-12	0.12	3	0	-	-	-	0	3	
State/Tribal SWL	Υ	05-26-11	0.50	0	0	0	0	-	0	0	
State/Tribal LUST	Υ	06-01-12	0.50	2	1	0	2	-	2	7	
State/Tribal UST/AST	Υ	06-01-12	0.25	5	0	0	-	-	1	6	
State/Tribal EC	Υ	NA	0.25	0	0	0	-	-	0	0	
State/Tribal IC	Υ	06-08-12	0.25	0	0	0	-	-	0	0	
State/Tribal VCP	Υ	07-30-07	0.50	0	0	0	0	-	0	0	
State/Tribal Brownfields	Υ	08-10-12	0.50	0	0	0	0	-	0	0	
Federal IC/EC	Υ	06-13-12	0.50	0	0	0	0	-	0	0	
-TOTALS-				10	1	0	2	0	5	18	

### Notice of Disclaimer

Due to the limitations, constraints, and inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

### Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

### Environmental FirstSearch Site Information Report

Request Date: 09-06-12
Requestor Name: Brett Higgins
Standard: ASTM-05

Search Type: LINEAR

3.499 mile(s) **Job Number:** 2012-228

Filtered Report

Target Site: SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

### Demographics

Sites: 18 Non-Geocoded: 5 Population: NA

Radon: 0 PCI/L

Fire Insurance Map Coverage: No (>350 Ft. From Coverage)

### Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		<u>UTMs</u>
Longitude:	-78.953625	-78:57:13	Easting:	686206.771
Latitude:	35.240729	35:14:27	Northing:	3901460.421
Elevation:	213		Zone:	17

### Comment

Comment:

Adjacent ZIP Codes:

### Additional Requests/Services

### ZIP Code City Name ST Dist/Dir Sel

### Services:

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	Yes	09-06-12
Historical Topos	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Liens	No	
Historic Map Works	No	
Online Topos	No	

### Environmental FirstSearch Target Site Summary Report

 
 Target Property:
 SR 1121 - NC 210 - SR 1120 SPRING LAKE, NC 28390
 JOB:
 2012-228

TOTAL: 18 GEOCODED: 13 NON GEOCODED: 5 SELECTED: 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	SPILLS	RYAN S GROCERY 12015/CURRENT RECORD	7939 RAY RD SPRING LAKE NC 28390	0.00	+ 106	1
1	UST	RYAN S GROCERY 0-026491/TEMPORARILY CLOSED	7939 RAY RD SPRINGLAKE NC 28390	0.00	+ 106	2
1	UST	RYAN S GROCERY FA-675/UNKNOWN	7939 RAY RD SPRING LAKE NC 28390	0.00	+ 106	5
1	LUST	RYAN S GROCERY NCI-012015/RESPONSE	7939 RAY RD SPRING LAKE NC 28390	0.00	+ 106	7
2	SPILLS	DALTON HOLDER STORE 17793/CURRENT RECORD	6701 RAY RD SPRING LAKE NC 28390	0.00	+ 81	8
2	UST	DATON HOLDER 0-017886/PERM CLOSED REMOVED	6701 RAY RD SPRING LAKE NC 28390	0.00	+ 81	9
2	LUST	DALTON HOLDER STORE NCI-017793/RESPONSE	6701 RAY RD SPRING LAKE NC 28390	0.00	+ 81	12
3	SPILLS	HOLDERS GROCERY 85611/CURRENT RECORD	UNKNOWN SPRING LAKE NC 28390	0.00	+ 13	13
4	UST	MATTHEWS GENERAL STORE 0-002736/CURRENTLY OPERATIONAL	7100 RAY RD SPRING LAKE NC 28390	0.00	+ 64	14
5	UST	SHORT STOP FOOD MARTS 8 0-021508/CURRENTLY OPERATIONAL	7925 RAY RD SPRING LAKE NC 28390	0.00	+ 105	17

### Environmental FirstSearch Sites Summary Report

 
 Target Property:
 SR 1121 - NC 210 - SR 1120 SPRING LAKE, NC 28390
 JOB:
 2012-228

TOTAL: 18 GEOCODED: 13 NON GEOCODED: 5 SELECTED: 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	SPILLS	RYAN S GROCERY 12015/CURRENT RECORD	7939 RAY RD SPRING LAKE NC 28390	0.00	+ 106	1
1	UST	RYAN S GROCERY 0-026491/TEMPORARILY CLOSED	7939 RAY RD SPRINGLAKE NC 28390	0.00	+ 106	2
1	UST	RYAN S GROCERY FA-675/UNKNOWN	7939 RAY RD SPRING LAKE NC 28390	0.00	+ 106	5
1	LUST	RYAN S GROCERY NCI-012015/RESPONSE	7939 RAY RD SPRING LAKE NC 28390	0.00	+ 106	7
2	SPILLS	DALTON HOLDER STORE 17793/CURRENT RECORD	6701 RAY RD SPRING LAKE NC 28390	0.00	+ 81	8
2	UST	DATON HOLDER 0-017886/PERM CLOSED REMOVED	6701 RAY RD SPRING LAKE NC 28390	0.00	+ 81	9
2	LUST	DALTON HOLDER STORE NCI-017793/RESPONSE	6701 RAY RD SPRING LAKE NC 28390	0.00	+ 81	12
3	SPILLS	HOLDERS GROCERY 85611/CURRENT RECORD	UNKNOWN SPRING LAKE NC 28390	0.00	+ 13	13
4	UST	MATTHEWS GENERAL STORE 0-002736/CURRENTLY OPERATIONAL	7100 RAY RD SPRING LAKE NC 28390	0.00	+ 64	14
5	UST	SHORT STOP FOOD MARTS 8 0-021508/CURRENTLY OPERATIONAL	7925 RAY RD SPRING LAKE NC 28390	0.00	+ 105	17
6	LUST	HOLDERS GROCERY NCI-085611/ASSESSMENT	1899 RAY RD SPRING LAKE NC	0.11 SW	+ 53	20
7	LUST	LEWIS OIL CO. NCI-005466/	0 HIGHWAY 210 MANCHESTER NC	0.27 SE	+ 4	21
8	LUST	LEWIS OIL GROCERY STORE NCI-014732/RESPONSE	0 NC 210 & SR 1600 SPRING LAKE NC 28390	0.38 SE	- 53	22

### Environmental FirstSearch Sites Summary Report

SR 1121 - NC 210 - SR 1120 SPRING LAKE, NC 28390 Target Property: JOB: 2012-228

TOTAL: GEOCODED: NON GEOCODED: 5 18 13 SELECTED: 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	ERNS	BETWEEN THE TOWNS SPRING LAKE NRC-554942/FIXED	AND SANFORD ON HWY SPRING LAKE NC	NON GC	N/A	N/A
	UST	STEWARTS OF SPRING LAKE 0-036564/PERM CLOSED REMOVED	SR 2045 AND SR 2048 SPRING LAKE NC	NON GC	N/A	N/A
	LUST	DEVON S GROCERY NCI-015437/RESPONSE	ROUTE 1, BOX 425, SR2048 SPRING LAKE NC 28390	NON GC	N/A	N/A
	LUST	LONG VALLEY FARM NCI-012016/CLOSED OUT	MANCHESTER ROAD SPRING LAKE NC 28390	NON GC	N/A	N/A
	TRIBALLA	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-28390/	UNKNOWN NC 28390	NON GC	N/A	N/A

### Environmental FirstSearch Site Detail Report

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**SPILLS** 

JOB:

2012-228

**SEARCH ID:** 18 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

 NAME:
 RYAN S GROCERY
 REV:
 9/23/11

 ADDRESS:
 7939 RAY RD
 ID1:
 12015

 SPRING LAKE NG 28390
 ID2:
 EA 675

SPRING LAKE NC 28390 ID2: FA-675
HARNETT STATUS: CURRENT RECORD

CONTACT: PHONE:

SITE INFORMATION

SOURCE:

OWNER/OPERATOR: CHRISTINE RYAN

**NCDENR** 

RT. 3, BOX 599-A SPRING LAKE NC 28390

DATE OF RELEASE: 12/21/1993 DATE SUBMITTED: 4/11/1994

DESCRIPTION OF INCIDENT: A LEAK WAS DISCOVERED WHEN USTS WERE RMEOVED

CONTAMINATION INFORMATION GROUNDWATER CONTAMINATED?: Y MAJOR SOIL CONTAMINATION?: N

MATERIAL INVOLVED (1): GASOLINE AMOUNT LOST (1): AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2): AMOUNT LOST (2): AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3): AMOUNT LOST (3): AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0 NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION: RISK SITE?: H SITE PRIORITY: 085B PRIORITY CODE: H PRIORITY UPDATE: 4/15/1998

STATUS INFORMATION: LAST MODIFIED: INCIDENT PHASE: RESPONSE NOV ISSUED: NORR ISSUED: 45 DAY REPORT: CORRECTIVE ACTION PLAN: CLOSURE REQ DATE: CLOSE-OUT REPORT:

### Environmental FirstSearch Site Detail Report

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 4 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

 NAME:
 RYAN S GROCERY
 REV:
 6/1/12

 ADDRESS:
 7939 RAY RD
 ID1:
 0-026491

SPRINGLAKE NC 28390 ID2: 00-0-000026491
HARNETT STATUS: TEMPORARII Y CLOS

HARNETT STATUS: TEMPORARILY CLOSED

CONTACT: CHRISTINE RYAN PHONE: SOURCE: NCDENR

SITE INFORMATION

**TOTAL NUMBER OF TANKS: 5** 

CONTACT INFORMATION: CHRISTINE RYAN 7939 RAY ROAD SPRINGLAKE NC 28390

TANK NUMBER: 1
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 2
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 3 ROOT TANK ID: TANK STATUS: INSTALLATION DATE: PERM CLOSED: CONTENTS: Gasoline, Gas Mix CAPACITY IN GALLONS: 1000 TANK CONSTRUCTION:3

- Continued on next page -

### Environmental FirstSearch Site Detail Report

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 4 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

 NAME:
 RYAN S GROCERY
 REV:
 6/1/12

 ADDRESS:
 7939 RAY RD
 ID1:
 0-026491

SPRINGLAKE NC 28390 ID2: 00-0-000026491 HARNETT STATUS: TEMPORARILY CLOSED

CONTACT: CHRISTINE RYAN PHONE:

SOURCE: NCDENR

PIPE CONSTRUCTION:4 MAIN TANK:NO COMPARTMENT TANK:NO MANIFOLD TANK: COMMERCIAL TANK:NO REGULATED TANK:YES

TANK NUMBER: 4
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 1000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:NO
REGULATED TANK:YES

TANK NUMBER: 5
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 500
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:NO
REGULATED TANK:YES

ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 1
INSTALLATION DATE: 19841231
CLOSED DATE: 19931221
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL

- Continued on next page -

2012-228

Target Property: SR 1121 - NC 210 - SR 1120 JOB:

SPRING LAKE, NC 28390

UST

**SEARCH ID:** 4 **DIST/DIR:** 0.00 -- **ELEVATION:** 319 **MAP ID:** 1

 NAME:
 RYAN S GROCERY
 REV:
 6/1/12

 ADDRESS:
 7939 RAY RD
 ID1:
 0-026491

SPRINGLAKE NC 28390 ID2: 00-0-000026491
HARNETT STATUS: TEMPORARILY CLOSED

IAKNETT CHRISTINE RYAN PHONE:

CONTACT: CHRISTINE RYAN
SOURCE: NCDENR

INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL
PIPE CORROSION PROTECTION:
PIPE LEAK DETECTION:
OVERFLOW PROTECTION:
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:
GPS SITING CONFIRMED:N
PERSON CONFIRMING:

TANK NUMBER: 2 **INSTALLATION DATE: 19841231** CLOSED DATE: 19931221 STATUS: PERMANENTLY CLOSED CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 6000 COMMENTS: CONSTRUCTION MATERIAL: STEEL INTERIOR: UNKNOWN EXTERIOR: UNKNOWN CORROSION PROTECTION: LEAK DETECTION: PIPING MATERIAL: STEEL PIPE CORROSION PROTECTION: PIPE LEAK DETECTION: OVERFLOW PROTECTION: FINANCIAL RESPONSIBILITY: **CERTIFICATION TYPE** GPS SITING CONFIRMED:N PERSON CONFIRMING:

TANK NUMBER: 3
INSTALLATION DATE: 19701231
CLOSED DATE: 19931221
STATUS: PERMANENTLY CLOSED
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 1000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION:
LEAK DETECTION:
PIPING MATERIAL: STEEL

- More Details Exist For This Site; Max Page Limit Reached -

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB: 2012-228

UST

**ELEVATION:** SEARCH ID: 5 DIST/DIR: 0.00 --319 MAP ID: 1

NAME: RYAN S GROCERY REV: 6/1/12 ADDRESS: 7939 RAY RD ID1: FA-675

> SPRING LAKE NC 28390 ID2:

**HARNETT** STATUS: UNKNOWN

CONTACT: **CHRISTINE RYAN** PHONE:

SOURCE:

SITE INFORMATION **REGIONAL UST DATA** 

UST NUMBER:FA-675 **INCIDENT NUMBER:12015** CD NUMBER:0 **REEL NUMBER:0** REGIONAL CONTACT: JWB **REGIONAL OFFICE: FAY** DATE OCCURRED:12/21/1993

**NCDENR** 

**RESPONSIBLE COMPANY:** 

790 JOHN RYAN LANE SPRING LAKE, NC, 28390

SOURCE:LEAK, UST PETROLEUM TYPE:PETROLEUM COMMERCIAL/NONCOMMERCIAL:COMMERCIAL REGULATED:REGULATED
REGULATORY REQUIREMENT:9/28/2001 VIOLATION:

PHASE REQUIRED: SITE PRIORITY:085B RISK:H RISK OF INCIDENT:L INTERMEDIATE CONDITION: LAND USE:

CORRECTIVE ACTION PLAN: RBCA: CLOSED REVIEW REQUESTED: CASE CLOSED:

CONTAMINATION: GROUNDWATER/BOTH

SUPPLY WELLS: MTBE IN WELL:

MTBE IN GROUNDWATER: UNKNOWN

LEAK DISCOVERED:0 LAND USE RESTRICTION FILED: CLEAN UP:12/21/1993 **CURRENT STATUS: CURRENT RECORD** 

**RBCA GROUNDWATER:** POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE CD NUMBER:0 **RESPONSIBLE OWNER:0** 

**Target Property:** JOB: SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

UST

2012-228

**SEARCH ID:** 5 DIST/DIR: 0.00 --**ELEVATION:** 319 MAP ID: 1

NAME: RYAN S GROCERY REV: 6/1/12 ADDRESS: 7939 RAY RD ID1: FA-675

SPRING LAKE NC 28390 ID2:

HARNETT STATUS: UNKNOWN

CONTACT: CHRISTINE RYAN PHONE: SOURCE: **NCDENR** 

RESPONSIBLE OPERATOR:0 RESPONSIBLE LANDOWNER:0 COMMENTS:

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB: 2012-228

LUST

9 DIST/DIR: **ELEVATION:** SEARCH ID: 0.00 --319 MAP ID: 1

NAME: RYAN S GROCERY REV: 6/1/12 ADDRESS: 7939 RAY RD ID1: NCI-012015 SPRING LAKE NC 28390 ID2: 12015 **HARNETT** STATUS: **RESPONSE** 

**CHRISTINE RYAN** PHONE:

CONTACT: **NCDENR** SOURCE:

#### **REGIONAL UST DATA**

UST NUMBER:FA-675 **INCIDENT NUMBER:12015** CD NUMBER:0 **REEL NUMBER:0 REGIONAL CONTACT: JWB** REGIONAL OFFICE:FAY DATE OCCURRED:12/21/1993

#### RESPONSIBLE COMPANY:

790 JOHN RYAN LANE SPRING LAKE, NC, 28390

SOURCE:LEAK, UST PETROLEUM TYPE:PETROLEUM COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:9/28/2001 VIOLATION:

PHASE REQUIRED: SITE PRIORITY:085B RISK:H RISK OF INCIDENT:L INTERMEDIATE CONDITION: LAND USE:

CORRECTIVE ACTION PLAN: CLOSED REVIEW REQUESTED: CASE CLOSED: CONTAMINATION: GROUNDWATER/BOTH SUPPLY WELLS:

MTBE IN WELL: MTBE IN GROUNDWATER: UNKNOWN

LEAK DISCOVERED:0 LAND USE RESTRICTION FILED: CLEAN UP:12/21/1993 CURRENT STATUS:CURRENT RECORD

RBCA GROUNDWATER: POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE CD NUMBER:0 RESPONSIBLE OWNER:0 RESPONSIBLE OPERATOR:0 RESPONSIBLE LANDOWNER:0

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

**SPILLS** 

**SEARCH ID:** 1 **DIST/DIR:** 0.00 -- **ELEVATION:** 294 **MAP ID:** 2

 NAME:
 DALTON HOLDER STORE
 REV:
 9/23/11

 ADDRESS:
 6701 RAY RD
 ID1:
 17793

 FA 03/4
 100
 100
 100

SPRING LAKE NC 28390 ID2: FA-934

HARNETT STATUS: CURRENT RECORD

CONTACT: PHONE:

SITE INFORMATION

SOURCE:

OWNER/OPERATOR: GORDON MASON

**NCDENR** 

6701 RAY ROAD SPRING LAKE NC 28390

DATE OF RELEASE: 8/28/1997 DATE SUBMITTED: 9/16/1997

DESCRIPTION OF INCIDENT: RECEIVED CLOSURE REPORT; SOIL ANALYTICAL RESULTS SHOWED TPH>10PPM FOR ALL SAMPLES COLLECTED

AROUND TANKS; GROUNDWATER WAS NOT ENCOUNTERED DURING TK REMOVAL

CONTAMINATION INFORMATION GROUNDWATER CONTAMINATED?: Y MAJOR SOIL CONTAMINATION?: N

MATERIAL INVOLVED (1): GASOLINE AMOUNT LOST (1): AMOUNT RECOVERED (1): UNKNOWN

MATERIAL INVOLVED (2): AMOUNT LOST (2): AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3): AMOUNT LOST (3): AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0 NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION: RISK SITE?: U SITE PRIORITY: 10E PRIORITY CODE: E PRIORITY UPDATE:

STATUS INFORMATION: LAST MODIFIED: INCIDENT PHASE: RESPONSE NOV ISSUED: NORR ISSUED: 45 DAY REPORT: CORRECTIVE ACTION PLAN: CLOSURE REQ DATE: CLOSE-OUT REPORT:

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 7 **DIST/DIR:** 0.00 -- **ELEVATION:** 294 **MAP ID:** 2

 NAME:
 DATON HOLDER
 REV:
 6/1/12

 ADDRESS:
 6701 RAY RD
 ID1:
 0-017886

SPRING LAKE NC 28390 ID2: 00-0-0000017886

SI MINO LAND INC 20370 ID2. 00-0-000

HARNETT STATUS: PERM CLOSED REMOVED

CONTACT: GORDON A MASON PHONE: SOURCE: NCDENR

SITE INFORMATION

**TOTAL NUMBER OF TANKS: 3** 

CONTACT INFORMATION: GORDON A MASON 6701 B RAY RD SPRING LAKE NC 28390

TANK NUMBER: 1
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 3000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 2
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 3000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:4
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 3 ROOT TANK ID: TANK STATUS: INSTALLATION DATE: PERM CLOSED: CONTENTS: Gasoline, Gas Mix CAPACITY IN GALLONS: 3000 TANK CONSTRUCTION:3

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 7 **DIST/DIR:** 0.00 -- **ELEVATION:** 294 **MAP ID:** 2

 NAME:
 DATON HOLDER
 REV:
 6/1/12

 ADDRESS:
 6701 RAY RD
 ID1:
 0-017886

SPRING LAKE NC 28390 ID2: 00-0-0000017886

LIADNETT CTATIC. DEDM CLOSED

HARNETT STATUS: PERM CLOSED REMOVED

CONTACT: GORDON A MASON PHONE: SOURCE: NCDENR

PIPE CONSTRUCTION:4 MAIN TANK:NO COMPARTMENT TANK:NO MANIFOLD TANK: COMMERCIAL TANK:YES REGULATED TANK:YES

**REGIONAL UST DATA** 

UST NUMBER:FA-934 INCIDENT NUMBER:17793 CD NUMBER:0 REEL NUMBER:0 REGIONAL CONTACT:JWB REGIONAL OFFICE:FAY DATE OCCURRED:8/28/1997

**RESPONSIBLE COMPANY:** 

6701 RAY ROAD SPRING LAKE ,NC , 28390

SOURCE:LEAK, UST
PETROLEUM TYPE:PETROLEUM
COMMERCIAL/NONCOMMERCIAL:COMMERCIAL
REGULATED:REGULATED
REGULATORY REQUIREMENT:
VIOLATION:

PHASE REQUIRED: SITE PRIORITY: RISK:L RISK OF INCIDENT:L INTERMEDIATE CONDITION: LAND USE:RES

CORRECTIVE ACTION PLAN:
RBCA:
CLOSED REVIEW REQUESTED:
CASE CLOSED:
CONTAMINATION:GROUNDWATER/BOTH
SUPPLY WELLS:0
MTBE IN WELL:0
MTBE IN GROUNDWATER:UNKNOWN

LEAK DISCOVERED:0 LAND USE RESTRICTION FILED: CLEAN UP:8/27/1997 CURRENT STATUS:CURRENT RECORD

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB: 2012-228

UST

SEARCH ID: 7 DIST/DIR: 0.00 --**ELEVATION:** 294 MAP ID: 2

NAME: **DATON HOLDER** REV: 6/1/12 ADDRESS: 6701 RAY RD 0-017886 ID1:

> SPRING LAKE NC 28390 ID2: 00-0-0000017886

**HARNETT** STATUS: PERM CLOSED REMOVED

CONTACT: **GORDON A MASON** PHONE: SOURCE: **NCDENR** 

**RBCA GROUNDWATER:** POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE CD NUMBER:0 RESPONSIBLE OWNER:0 RESPONSIBLE OPERATOR:0 RESPONSIBLE LANDOWNER:0 **COMMENTS:** 

ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 1 INSTALLATION DATE: 19740420 CLOSED DATE: 19970728 STATUS: PERMANENTLY CLOSED CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 3000 **COMMENTS:** COMMINION STEEL
CONSTRUCTION MATERIAL: STEEL
INTERIOR: NONE
EXTERIOR: PAINT
CORROSION PROTECTION: LEAK DETECTION: PIPING MATERIAL: STEEL PIPE CORROSION PROTECTION: PIPE LEAK DETECTION: OVERFLOW PROTECTION: FINANCIAL RESPONSIBILITY: **CERTIFICATION TYPE:** GPS SITING CONFIRMED:N

TANK NUMBER: 2 **INSTALLATION DATE: 19740420** CLOSED DATE: 19970728 STATUS: PERMANENTLY CLOSED CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 3000 **COMMENTS:** CONSTRUCTION MATERIAL: STEEL INTERIOR: NONE **EXTERIOR: PAINT** CORROSION PROTECTION: LEAK DETECTION: PIPING MATERIAL: STEEL PIPE CORROSION PROTECTION: PIPE LEAK DETECTION:

PERSON CONFIRMING:

- More Details Exist For This Site; Max Page Limit Reached -

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB:

2012-228

#### LUST

SEARCH ID: 8 DIST/DIR: 0.00 -- ELEVATION: 294 MAP ID: 2

 NAME:
 DALTON HOLDER STORE
 REV:
 6/1/12

 ADDRESS:
 6701 RAY RD
 ID1:
 NCI-017793

 SPRING LAKE NC 28390
 ID2:
 17793

HARNETT STATUS: RESPONSE GORDON MASON PHONE: 9104978229

**SOURCE:** NCDENR

CONTACT:

#### **REGIONAL UST DATA**

UST NUMBER:FA-934 INCIDENT NUMBER:17793 CD NUMBER:0 REEL NUMBER:0 REGIONAL CONTACT:JWB REGIONAL OFFICE:FAY DATE OCCURRED:8/28/1997

#### RESPONSIBLE COMPANY:

6701 RAY ROAD SPRING LAKE ,NC , 28390

SOURCE:LEAK, UST PETROLEUM TYPE:PETROLEUM COMMERCIAL/NONCOMMERCIAL:COMMERCIAL REGULATED:REGULATED REGULATORY REQUIREMENT: VIOLATION:

PHASE REQUIRED: SITE PRIORITY: RISK:L RISK OF INCIDENT:L INTERMEDIATE CONDITION: LAND USE:RES

CORRECTIVE ACTION PLAN: RBCA: CLOSED REVIEW REQUESTED: CASE CLOSED: CONTAMINATION:GROUNDWATER/BOTH SUPPLY WELLS:0 MTBE IN WELL:0

LEAK DISCOVERED:0 LAND USE RESTRICTION FILED: CLEAN UP:8/27/1997 CURRENT STATUS:CURRENT RECORD

MTBE IN GROUNDWATER: UNKNOWN

RBCA GROUNDWATER:
POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE
CD NUMBER:0
RESPONSIBLE OWNER:0
RESPONSIBLE OPERATOR:0
RESPONSIBLE LANDOWNER:0

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB: 2012-228

**SPILLS** 

**SEARCH ID:** DIST/DIR: **ELEVATION:** MAP ID: 2 0.00 --226 3

NAME: **HOLDERS GROCERY** REV: 6/1/12 ADDRESS: UNKNOWN ID1: 85611

SPRING LAKE NC 28390 ID2: FA-85611

**HARNETT** STATUS: **CURRENT RECORD** 

CONTACT: PHONE: SOURCE:

SITE INFORMATION

OWNER/OPERATOR: HOPPER-PRESIDENT, RICK H&H CABLE CONTRACTORS, INC. 1092 PONDEROSA ROAD CAMERON 9194991130

**NCDENR** 

DATE OF RELEASE: 6/4/2000 DATE SUBMITTED: 4/12/2001 DESCRIPTION OF INCIDENT:

CONTAMINATION INFORMATION GROUNDWATER CONTAMINATED?: Y MAJOR SOIL CONTAMINATION?:

MATERIAL INVOLVED (1): AMOUNT LOST (1): AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2): AMOUNT LOST (2): AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3): AMOUNT LOST (3): AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0 NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION: RISK SITE?: SITE PRIORITY: PRIORITY CODE: B PRIORITY UPDATE:

STATUS INFORMATION: LAST MODIFIED: 5/9/2002 INCIDENT PHASE: ASSESSMENT NOV ISSUED: NORR ISSUED: 45 DAY REPORT: CORRECTIVE ACTION PLAN: 5/9/2002 CLOSURE REQ DATE: CLOSE-OUT REPORT:

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 3 **DIST/DIR:** 0.00 -- **ELEVATION:** 277 **MAP ID:** 4

 NAME:
 MATTHEWS GENERAL STORE
 REV:
 6/1/12

 ADDRESS:
 7100 RAY RD
 ID1:
 0-002736

SPRING LAKE NC 28390 ID2: 00-0-0000002736

DANIETT CHARACTER CHARACTE

HARNETT STATUS: CURRENTLY OPERATIONAL CONTACT: FOSTER . MATTHEWS PHONE:

SOURCE: NCDENR

SITE INFORMATION

**TOTAL NUMBER OF TANKS: 3** 

CONTACT INFORMATION: FOSTER . MATTHEWS 1863 WILL LUCAS RD LINDEN NC 28356-8523

TANK NUMBER: 001
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:1
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 002
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:1
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 003
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 3 **DIST/DIR:** 0.00 -- **ELEVATION:** 277 **MAP ID:** 4

 NAME:
 MATTHEWS GENERAL STORE
 REV:
 6/1/12

 ADDRESS:
 7100 RAY RD
 ID1:
 0-002736

SPRING LAKE NC 28390 ID2: 00-0-0000002736

JI NING LANE INC 20370 IDZ. 00-0-0000002/30

HARNETT STATUS: CURRENTLY OPERATIONAL

CONTACT: FOSTER MATTHEWS PHONE: SOURCE: NCDENR

PIPE CONSTRUCTION:1 MAIN TANK:NO COMPARTMENT TANK:NO MANIFOLD TANK:NO COMMERCIAL TANK:YES REGULATED TANK:YES

GPS SITING CONFIRMED:Y PERSON CONFIRMING:KCC

#### ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 001
INSTALLATION DATE: 19940504
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION: IMPRESSED CURRENT
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION: IMPRESSED CURRENT
PIPE LEAK DETECTION:
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:
CERTIFICATION TYPE:

TANK NUMBER: 002
INSTALLATION DATE: 19940504
CLOSED DATE:
STATUS: CURRENTLY OPERATIONAL
CONTENTS: GASOLINE, GASOLINE MIXTURE
CAPACITY IN GALLONS: 6000
COMMENTS:
CONSTRUCTION MATERIAL: STEEL
INTERIOR: UNKNOWN
EXTERIOR: UNKNOWN
CORROSION PROTECTION: IMPRESSED CURRENT
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION: IMPRESSED CURRENT
PIPE LEAK DETECTION:
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:

**Target Property:** JOB: SR 1121 - NC 210 - SR 1120 2012-228

SPRING LAKE, NC 28390

**UST** 

SEARCH ID: DIST/DIR: 0.00 --**ELEVATION:** MAP ID: 4 3 277

NAME: MATTHEWS GENERAL STORE REV: 6/1/12 ADDRESS: 7100 RAY RD ID1: 0-002736

> SPRING LAKE NC 28390 ID2: 00-0-0000002736

**HARNETT** STATUS: **CURRENTLY OPERATIONAL** 

CONTACT: FOSTER . MATTHEWS PHONE: SOURCE: NCDENR

**CERTIFICATION TYPE:** GPS SITING CONFIRMED:Y PERSON CONFIRMING:KCC

TANK NUMBER: 003 **INSTALLATION DATE: 19940504** CLOSED DATE: STATUS: CURRENTLY OPERATIONAL CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 6000 COMMENTS: CONSTRUCTION MATERIAL: STEEL INTERIOR: UNKNOWN EXTERIOR: UNKNOWN

EXTERIOR: UNKNOWN
CORROSION PROTECTION: IMPRESSED CURRENT
LEAK DETECTION:
PIPING MATERIAL: UNKNOWN
PIPE CORROSION PROTECTION: IMPRESSED CURRENT
PIPE LEAK DETECTION:
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:
CFRTIFICATION TYPE:

CERTIFICATION TYPE: GPS SITING CONFIRMED:Y PERSON CONFIRMING:KCC

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

UST

**SEARCH ID:** 6 **DIST/DIR:** 0.00 -- **ELEVATION:** 318 **MAP ID:** 5

 NAME:
 SHORT STOP FOOD MARTS 8
 REV:
 6/1/12

 ADDRESS:
 7925 RAY RD
 ID1:
 0-021508

SPRING LAKE NC 28390 ID2: 00-0-0000021508

HARNETT STATUS: CURRENTLY OPERATIONAL

**CONTACT:** LI L THRIFT FOOD MARTS, INC. **PHONE:** 

**SOURCE:** NCDENR

SITE INFORMATION

**TOTAL NUMBER OF TANKS: 3** 

CONTACT INFORMATION: LI L THRIFT FOOD MARTS, INC. 1007 ARSENAL AVENUE FAYETTEVILLE NC 28305-5329

TANK NUMBER: 1
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:3
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 2
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 6000
TANK CONSTRUCTION:3
PIPE CONSTRUCTION:3
MAIN TANK:NO
COMPARTMENT TANK:NO
MANIFOLD TANK:NO
COMMERCIAL TANK:YES
REGULATED TANK:YES

TANK NUMBER: 3
ROOT TANK ID:
TANK STATUS:
INSTALLATION DATE:
PERM CLOSED:
CONTENTS: Gasoline, Gas Mix
CAPACITY IN GALLONS: 4000
TANK CONSTRUCTION:3

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB: 2012-228

UST

**SEARCH ID:** 6 DIST/DIR: 0.00 --**ELEVATION:** 318 MAP ID: 5

NAME: SHORT STOP FOOD MARTS 8 REV: 6/1/12 ADDRESS: 7925 RAY RD 0-021508 ID1:

> SPRING LAKE NC 28390 ID2: 00-0-0000021508

STATUS: **HARNETT CURRENTLY OPERATIONAL** 

LI L THRIFT FOOD MARTS, INC. CONTACT: PHONE:

SOURCE: **NCDENR** 

PIPE CONSTRUCTION:3 MAIN TANK:NO COMPARTMENT TANK:NO MANIFOLD TANK:NO COMMERCIAL TANK:YES **REGULATED TANK:YES** 

#### ARCHIVED INFORMATION AS OF 2011

TANK NUMBER: 1 **INSTALLATION DATE: 19731003** 

CLOSED DATE:

STATUS: CURRENTLY OPERATIONAL CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 6000

COMMENTS:

CONSTRUCTION MATERIAL: STEEL INTERIOR: INTERNAL LINING
EXTERIOR: CATHODIC PROTECTION
CORROSION PROTECTION: INTERNAL LINING
LEAK DETECTION: PERIODIC TANK TIGHTNESS TESTING

PIPING MATERIAL: FRP

PIPE CORROSION PROTECTION: FRP TANK/PIPING
PIPE LEAK DETECTION: AUTOMATIC LINE LEAK DETECTORS

OVERFLOW PROTECTION: CATCHMENT BASIN

FINANCIAL RESPONSIBILITY: **CERTIFICATION TYPE: GPS SITING CONFIRMED:Y** PERSON CONFIRMING:KCC

TANK NUMBER: 2

**INSTALLATION DATE: 19731003** 

**CLOSED DATE:** 

STATUS: CURRENTLY OPERATIONAL

CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 6000

COMMENTS

CONSTRUCTION MATERIAL: STEEL

INTERIOR: INTERNAL LINING

**EXTERIOR: CATHODIC PROTECTION** 

CORROSION PROTECTION: INTERNAL LINING

LEAK DETECTION: PERIODIC TANK TIGHTNESS TESTING

PIPING MATERIAL: FRP

PIPE CORROSION PROTECTION: FRP TANK/PIPING
PIPE LEAK DETECTION: AUTOMATIC LINE LEAK DETECTORS
OVERFLOW PROTECTION: CATCHMENT BASIN

FINANCIAL RESPONSIBILITY:

**Target Property:** JOB: SR 1121 - NC 210 - SR 1120 2012-228

SPRING LAKE, NC 28390

**UST** 

SEARCH ID: DIST/DIR: 0.00 --**ELEVATION:** MAP ID: 5 6 318

NAME: SHORT STOP FOOD MARTS 8 REV: 6/1/12 ADDRESS: 7925 RAY RD ID1: 0-021508

SPRING LAKE NC 28390 ID2: 00-0-0000021508

**HARNETT** STATUS:

**CURRENTLY OPERATIONAL** 

CONTACT: LI L THRIFT FOOD MARTS, INC. PHONE: SOURCE: **NCDENR** 

**CERTIFICATION TYPE:** GPS SITING CONFIRMED:Y PERSON CONFIRMING:KCC

TANK NUMBER: 3 **INSTALLATION DATE: 19861001** CLOSED DATE: STATUS: CURRENTLY OPERATIONAL CONTENTS: GASOLINE, GASOLINE MIXTURE CAPACITY IN GALLONS: 4000

COMMENTS:

COMMINION STATES OF THE CONSTRUCTION MATERIAL: STEEL INTERIOR: INTERNAL LINING EXTERIOR: CATHODIC PROTECTION CORROSION PROTECTION: INTERNAL LINING

LEAK DETECTION: PERIODIC TANK TIGHTNESS TESTING PIPING MATERIAL: FRP

PIPING MATERIAL: FRP
PIPE CORROSION PROTECTION: FRP TANK/PIPING
PIPE LEAK DETECTION: AUTOMATIC LINE LEAK DETECTORS
OVERFLOW PROTECTION: CATCHMENT BASIN
FINANCIAL RESPONSIBILITY:

CERTIFICATION TYPE: GPS SITING CONFIRMED:Y PERSON CONFIRMING:KCC

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

LUST

SEARCH ID: 10 DIST/DIR: 0.11 SW ELEVATION: 266 MAP ID: 6

 NAME:
 HOLDERS GROCERY
 REV:
 10/1/01

 ADDRESS:
 1899 RAY RD
 ID1:
 NCI-085611

SPRING LAKE NC ID2:

HARNETT STATUS: ASSESSMENT RICK HOPPER-PRESIDENT PHONE: 9194991130

CONTACT: RICK HOPPER-PRESIDENT PHONE: 9194991130

SOURCE:

OWNER/OPERATOR: RICK HOPPER-PRESIDENT H&H CABLE CONTRACTORS, INC. 1092 PONDEROSA ROAD CAMERON NORT 28326

DATE OF RELEASE: 6/4/2000 DATE SUBMITTED: 4/12/2001 DESCRIPTION OF INCIDENT:

CONTAMINATION INFORMATION GROUNDWATER CONTAMINATED?: Y MAJOR SOIL CONTAMINATION?:

MATERIAL INVOLVED (1): AMOUNT LOST (1): AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2): AMOUNT LOST (2): AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3): AMOUNT LOST (3): AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0 NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION: RISK SITE?: SITE PRIORITY: 160 PRIORITY CODE: B PRIORITY UPDATE:

STATUS INFORMATION:
LAST MODIFIED:
INCIDENT PHASE: ASSESSMENT
NOV ISSUED:
NORR ISSUED:
45 DAY REPORT:
CORRECTIVE ACTION PLAN: 5/9/2002
CLOSURE REQ DATE:
CLOSE-OUT REPORT:

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

**JOB:** 2012-228

**LUST** 

**SEARCH ID:** 11 **DIST/DIR:** 0.27 SE **ELEVATION:** 217 **MAP ID:** 7

 NAME:
 LEWIS OIL CO.
 REV:
 10/1/01

 ADDRESS:
 0 HIGHWAY 210
 ID1:
 NCI-005466

0 HIGHWAY 210 ID1: NCI-00 MANCHESTER NC ID2:

HARNETT STATUS: CONTACT: PHONE:

SOURCE:

OWNER/OPERATOR:

DATE OF RELEASE: DATE SUBMITTED: 3/12/1990 DESCRIPTION OF INCIDENT:

CONTAMINATION INFORMATION GROUNDWATER CONTAMINATED?: NOD MAJOR SOIL CONTAMINATION?:

MATERIAL INVOLVED (1): AMOUNT LOST (1): AMOUNT RECOVERED (1):

MATERIAL INVOLVED (2): AMOUNT LOST (2): AMOUNT RECOVERED (2):

MATERIAL INVOLVED (3): AMOUNT LOST (3): AMOUNT RECOVERED (3):

NUMBER OF WELLS AFFECTED: 0 NAME(S) OF CONTAMINATED WELLS:

PRIORITY INFORMATION: RISK SITE?: SITE PRIORITY: 0 PRIORITY CODE: E PRIORITY UPDATE:

STATUS INFORMATION: LAST MODIFIED: INCIDENT PHASE: NOV ISSUED: NORR ISSUED: 45 DAY REPORT: CORRECTIVE ACTION PLAN: CLOSURE REO DATE: CLOSE-OUT REPORT:

**Target Property:** SR 1121 - NC 210 - SR 1120

SPRING LAKE, NC 28390

JOB: 2012-228

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SEARCH ID: 12 DIST/DIR: 0.38 SE **ELEVATION:** 160 MAP ID: 8

NAME: LEWIS OIL GROCERY STORE REV: 6/1/12 ADDRESS: 0 NC 210 & SR 1600 ID1: NCI-014732 SPRING LAKE NC 28390 ID2: 14732 **CUMBERLAND** STATUS: **RESPONSE** 

CONTACT: STEWART LEWIS PHONE:

**NCDENR** SOURCE:

#### **REGIONAL UST DATA**

UST NUMBER:FA-797 **INCIDENT NUMBER:14732** CD NUMBER:0 **REEL NUMBER:0 REGIONAL CONTACT: JWB REGIONAL OFFICE:FAY** DATE OCCURRED:10/18/1995

#### RESPONSIBLE COMPANY:

STUART LEWIS OIL CO. HWY 210 N. SPRING LAKE, NC, 28390

SOURCE:LEAK, UST PETROLEUM TYPE:PETROLEUM COMMERCIAL/NONCOMMERCIAL:COMMERCIAL REGULATED: REGULATED REGULATORY REQUIREMENT: VIOLATION:

PHASE REQUIRED: SITE PRIORITY:090B RISK:H RISK OF INCIDENT:L INTERMEDIATE CONDITION:

LAND USE:

CORRECTIVE ACTION PLAN:

CLOSED REVIEW REQUESTED: CASE CLOSED: CONTAMINATION: GROUNDWATER/BOTH SUPPLY WELLS: MTBE IN WELL:

MTBE IN GROUNDWATER: UNKNOWN

LEAK DISCOVERED:0 LAND USE RESTRICTION FILED: CLEAN UP:10/18/1995 CURRENT STATUS:CURRENT RECORD

RBCA GROUNDWATER: POLLUTANT TYPE:GASOLINE/DIESEL/KEROSENE CD NUMBER:0 RESPONSIBLE OWNER:0 RESPONSIBLE OPERATOR:0 RESPONSIBLE LANDOWNER:0

#### **Environmental FirstSearch Descriptions**

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money. A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.FINAL - Currently on the Final NPLPROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.PART OF NPL- Site is part of NPL siteDELETED - Deleted from the Final NPLFINAL - Currently on the Final NPLNOT PROPOSED - Not on the NPLNOT VALID - Not Valid Site or IncidentPROPOSED - Proposed for NPLREMOVED - Removed from Proposed NPLSCAN PLAN - Pre-proposal SiteWITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.NFRAP – No Further Remedial Action PlanP - Site is part of NPL siteD - Deleted from the Final NPLF - Currently on the Final NPLN - Not on the NPLO - Not Valid Site or IncidentP - Proposed for NPLR - Removed from Proposed NPLS - Pre-proposal SiteW – Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA/MA DEP/CT DEP RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that generate or transport hazardous waste or meet other RCRA requirements.LGN - Large Quantity GeneratorsSGN - Small Quantity GeneratorsVGN - Conditionally Exempt Generator.Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities. CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records. MASSACHUSETTES HAZARDOUS WASTE GENERATOR - database of generators that are regulated under the MA DEP. VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

Fed Brownfield: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs./n CLEANUPS IN MY COMMUNITY (subset) - Sites, facilities and properties that have been contaminated by hazardous materials and are being, or have been, cleaned up under EPA's brownfield's program.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: NCDENR STATE INACTIVE HAZARDOUS SITES LIST - database of sites and Facilities that are being investigated due to reported releases of Hazardous substances. Included within this Inactive Hazardous Waste Sites Inventory database are the following classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), Inactive Hazardous Waste Sites Priority List Sites (SPL)

State Spills 90: NCDENR INCIDENT MANAGEMENT DATA (UST and Groundwater) - database of possible releases/spills of contaminants. The data includes media effected, material released, source and site priority.

State/Tribal SWL: NCDENR ALL PERMITTED SOLID WASTE FACILITIES - database of C&D Landfill, Compost, House Hold Hazardous Waste landfill, Incinerator (Industrial) Landfill, Incinerator (Medical) Landfill, Industrial Landfill, Land Clearing and Inert Debris Landfill, Mixed Waste Processing Landfill, Municipal Solid Waste Landfill, Tire Treatment and Processing Landfill, and Transfer and Processing Stations.

State/Tribal LUST: NCDENR INCIDENT MANAGEMENT DATA (UST and Groundwater) - database of leaking underground storage tanks. This database is a subset of the Incident Management Data (UST and Groundwater) where the source is a leaking ust. This data is concerned with petroleum storage systems and includes facilities and/or locations that have reported the possible release of contaminants. This database also includes State Spill Sites. REGIONAL UST DATABASE (SUBSET) - database of information obtained from the Regional Offices in which an incident has occurred. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database.

State/Tribal UST/AST: NCDENR/EPA REGISTERED TANKS and FACILITY DATABASE - database of underground storage tanks registered with the North Carolina Department of Environment and Natural Resources. Inclusion on this list indicates the presence of underground petroleum storage tanks and therefore the potential for environmental problems. It does not necessarily indicate existing problems.TRIBAL LAND UNDERGROUND STORAGE TANKS - database of underground storage tanks that are reported to be on Native American lands.REGIONAL UST DATABASE - database of information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database.

State/Tribal IC: NCDENR STATE INACTIVE HAZARDOUS SITES LIST SUBSET - database of sites and Facilities that have land use restrictions and are being investigated due to reported releases of Hazardous substances. Included within this Inactive Hazardous Waste Sites Inventory database are the following classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), Inactive Hazardous Waste Sites Priority List Sites (SPL)

State/Tribal VCP: NCDENR STATE INACTIVE HAZARDOUS SITES LIST SUBSET- database of sites and Facilities that are being investigated due to reported releases of Hazardous substances and have a voluntary cleanup aggreement. Included within this Inactive Hazardous Waste Sites Inventory database are the following classifications: Inactive Hazardous Waste Sites (IHS), No Further Action Sites (NFA), Duplicate Sites (DS), Inactive Hazardous Waste Sites Priority List Sites (SPL)

State/Tribal Brownfields: NCDENR BROWNFIELD PROJECTS INVENTORY - database of Active Eligible Sites, Projects Pending Eligibility, and Finalized Brownfields Agreements.

Federal IC / EC: EPA FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated. RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES (RCRA) – RCRA site the have institutional controls.

#### **Environmental FirstSearch Database Sources**

NPL: EPA Environmental Protection Agency Updated quarterly NPL DELISTED: EPA Environmental Protection Agency Updated quarterly CERCLIS: EPA Environmental Protection Agency Updated quarterly NFRAP: EPA Environmental Protection Agency. Updated quarterly RCRA COR ACT: EPA Environmental Protection Agency. Updated quarterly RCRA TSD: EPA Environmental Protection Agency. Updated quarterly RCRA GEN: EPA/MA DEP/CT DEP Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection Updated quarterly Fed Brownfield: EPA Environmental Protection Agency Updated quarterly ERNS: EPA/NRC Environmental Protection AgencyNational Response Center. Updated annually Tribal Lands: DOI/BIA United States Department of the InteriorBureau of Indian Affairs Updated annually State/Tribal Sites: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste

Management

Updated quarterly

State Spills 90: NCDENR North Carolina Department of Environment and Natural Resources, Division of Water Quality/Groundwater Section

Updated quarterly

State/Tribal SWL: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated annually

State/Tribal LUST: NCDENR North Carolina Department of Environment and Natural Resources, Division of Water Quality/Groundwater Section

Updated quarterly

State/Tribal UST/AST: NCDENR/EPA North Carolina Department of Environment and Natural Resources, Division of Waste ManagementEnvironmental Protection Agency

Updated quarterly

State/Tribal IC: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated quarterly

State/Tribal VCP: NCDENR North Carolina Department of Environment and Natural Resources, Division of Waste Management

Updated quarterly

State/Tribal Brownfields: NCDENR North Carolina Department of Environment and Natural Resources

Updated quarterly

Federal IC / EC: EPA Environmental Protection Agency

Updated quarterly

# Environmental FirstSearch Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: SR 1121 - NC 210 - SR 1120 SPRING LAKE, NC 28390 JOB: 2012-228

Street Name	Dist/Dir	Street Name	Dist/Dir
Alan Parker Cir	0.19 NE	Leeks Ln	0.25 SE
Andrew Cox Ln	0.00	Leopard Ln	0.01 NW
Appaloosa Dr	0.25 SE	Little M Dr	0.00
Aspen Ave	0.04 NW	Loblolly	0.19 NW
Astor Pl	0.05 NW	Lous Chapel Rd	0.00
Austin Ave	0.24 SE	Lynx Ln	0.08 NW
Azalea Dr	0.00	Mckay Dr	0.00
Balsom Pl	0.09 NW	Mcneil Cemetery Rd	0.00
Bluegill Ln	0.00	Misty Cove Ln	0.00
Burro Ln	0.03 SE	Narcissus Pl	0.03 NW
Burro Rd	0.03 SE	Narcissys	0.02 NW
Camellia Ln	0.00	Nc Highway 210 S	0.00
Canopy Ln	0.07 SW	Northpoint Cir	0.05 NE
Capital Dr	0.25 SE	Oakdale Dr	0.02 NW
Capitol Dr	0.22 SE	Old Farms Maple St	0.14 NW
Carnation Cir	0.25 NE	Orchid	0.13 NE
Cedar Dr	0.25 NE	Orchid Dr	0.13 NE
Chestnutt	0.21 NW	Pansey Cir	0.08 NE
Citron Pl	0.08 NW	Pansy Cir	0.08 NE
Clove Ln	0.09 NW	Panther Ln	0.05 NW
Connie Ct	0.14 NE	Peonie Pl	0.21 NW
Cooper Ave	0.00	Pete Mason Dr	0.14 NW
Creeksville Church Rd	0.09 SE	Pinecrest Dr	0.06 NE
Daffodil Pl	0.09 NW	Primrose	0.21 NW
Daisy Cir	0.1 NE	Primrose St	0.14 NW
Dandelion Pl	0.13 NW	Pvt Rd	0.00
Dogwood Dr	0.16 NW	Rachel Rd	0.03 SE
Dove Ridge Ln	0.18 NE	Ray Rd	0.00
E Northpoint St	0.00	Rolling Springs Dr	0.00
Elm St	0.22 NW	Rosebud St	0.1 NE
Elma Black Ln	0.09 NW	Ruby Clara Ln	0.00
Erica Ln	0.18 SE	S and S Ln	0.00
Eugene Ln	0.03 NE	Sandclay Rd	0.00
FROM NC 210 TO SR 1120	0.00	Secondary Road 1121	0.00
Gardenia Cir	0.16 NE	Secondary Road 1122	0.00
Gena Ln	0.17 NW	Secondary Road 1123	0.09 SE
Gerber Ln	0.00	Secondary Road 1142 Rd	0.00
Gordon Ln	0.01 NW	Secondary Road 1151	0.22 SE
Helen Matthews Dr	0.00	Secondary Road 1160	0.00
Holly St	0.18 NW	Secondary Road 1161	0.1 NE
Honey Dr	0.14 NW	Secondary Road 1162	0.00
Jde St	0.00	Secondary Road 1163	0.08 NE
Jeff St	0.13 NE	Secondary Road 1165	0.25 NE
John Ryan Ln	0.00	Secondary Road 1166	0.25 NE
Killdeer Dr	0.16 NW	Secondary Road 2051	0.03 SE
Killdeer Ln	0.00	Shady Dr	0.04 NE
Lake Ave	0.00	Slate Dr	0.15 NW
Lakeview Dr	0.22 SE	Sring Valley Dr	0.15 NW

# Environmental FirstSearch Street Name Report for Streets within .25 Mile(s) of Target Property

SR 1121 - NC 210 - SR 1120 SPRING LAKE, NC 28390 Target Property:

JOB: 2012-228

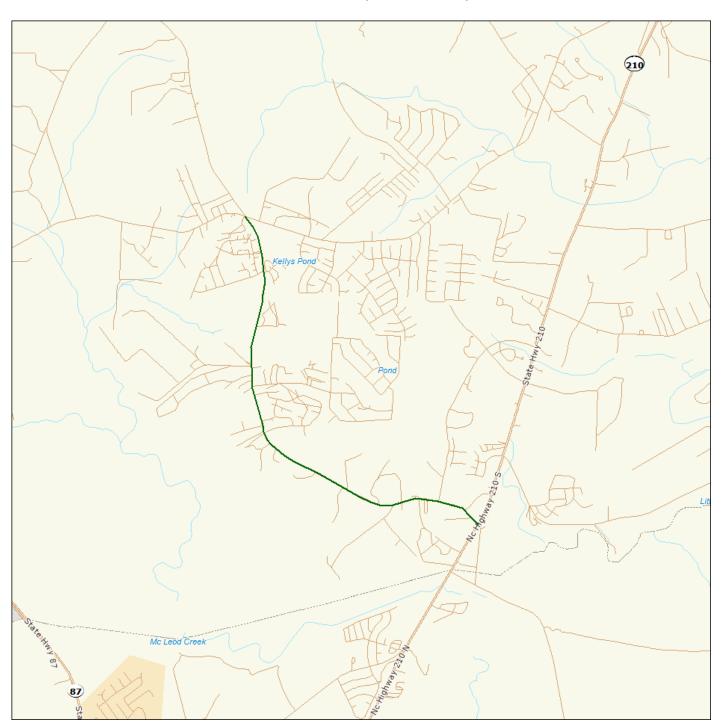
Street Name	Dist/Dir	Street Name	Dist/Dir
Stallion Ln	0.00		
State Hwy 210	0.00		
Stone Cross Dr	0.07 NE		
Sweet Ln	0.11 NW		
Tommy Dr	0.00		
Tommys Dr	0.00		
Twin Lake Rd	0.00		
W Northpoint Rd	0.00		
Ward Ln	0.15 NE		
Wedgewood Dr	0.01 NE		
White Pine Pl	0.02 NW		
Woodbridge Dr	0.25 NE		
Zena Ln	0.1 NW		



1 Mile Radius from Line ASTM Map: NPL, RCRACOR, STATE Sites



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



#### Source: Tele Atlas

Linear Search Line ..... Identified Site, Multiple Sites, Receptor ..... NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste







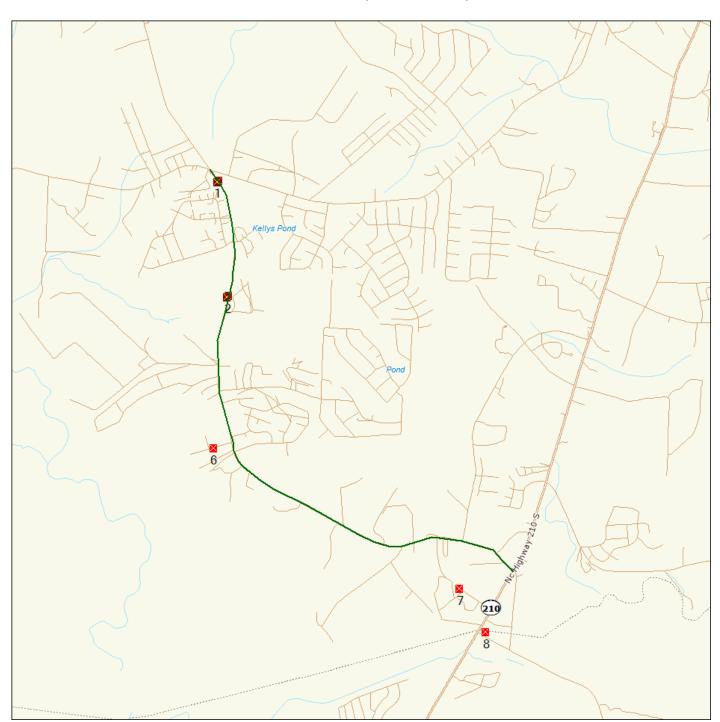




.5 Mile Radius from Line ASTM Map: CERCLIS, RCRATSD, LUST, SWL



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



#### Source: Tele Atlas

Linear Search Line Identified Site, Multiple Sites, Receptor ..... NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....







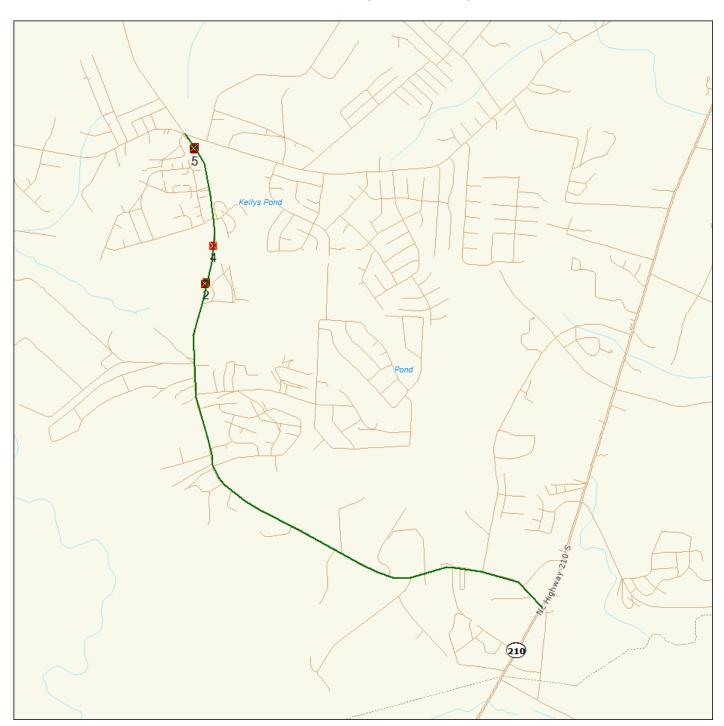




.25 Mile Radius from Line ASTM Map: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



#### Source: Tele Atlas

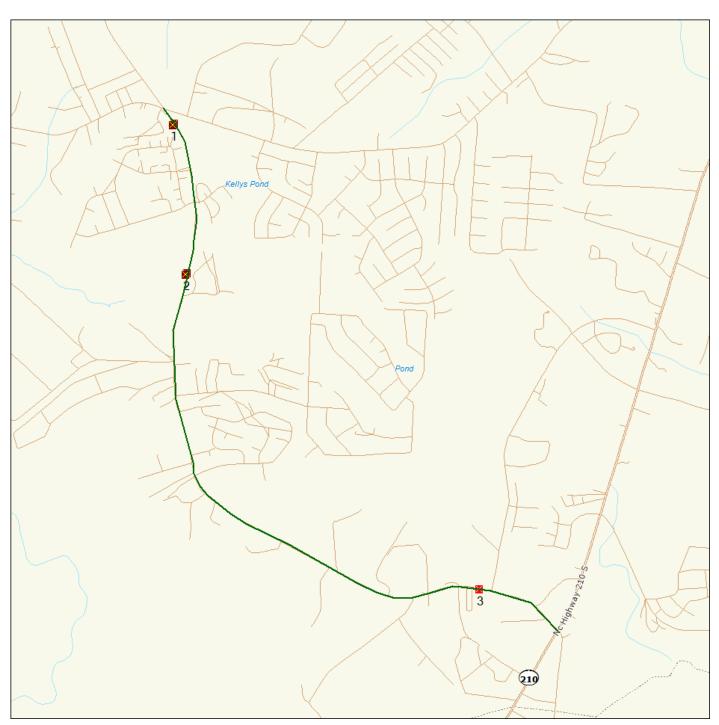




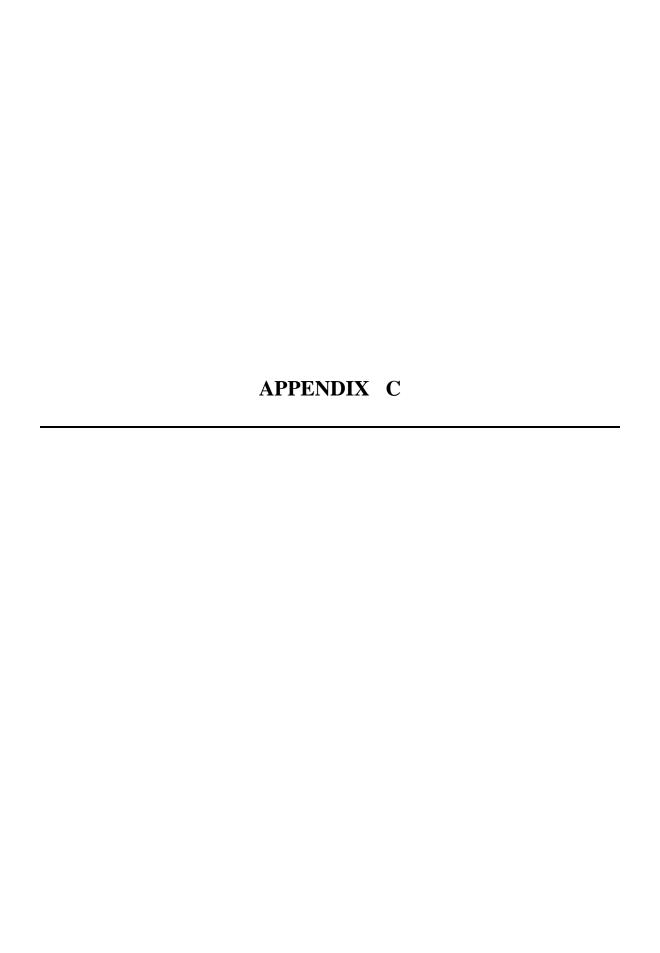
.12 Mile Radius from Line Non-ASTM Map: Spills 90



SR 1121 - NC 210 - SR 1120 , SPRING LAKE, NC 28390



#### Source: Tele Atlas



#### GEOPHYSICAL INVESTIGATION REPORT

#### EM61 & GPR SURVEYS

NCDOT ROW PROJECT
140 AKA 144 RAY ROAD, SPRING LAKE, NC (PARCEL 069)
NCDOT Project U-3465 (39017.1.1)
Harnett County, North Carolina

October 11, 2012

Report prepared for:

Mr. Gordon Box

**North Carolina Department of Transportation** 

GeoEnvironmental Project Manager Geotechnical Engineering Unit GeoEnvironmental Section 1589 Mail Service Center

Raleigh, North Carolina 27699-1589

Prepared by:

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NC License #1066

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

> NCDOT Contract 700012300 PO# 6300031797

NC Board for Licensing of Geologists C-257 NC Board of Examiners for Engineers & Surveyors C-1251

### NCDOT – Geotechnical Engineering Unit NCDOT ROW PROJECT 140 AKA 144 RAY ROAD, SPRING LAKE, NC (PARCEL 069) NCDOT Project U-3465 (39017.1.1)

Harnett County, North Carolina

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#### 1.0 INTRODUCTION

Pyramid Environmental & Engineering, PC (Pyramid) conducted a geophysical investigation for the North Carolina Department of Transportation (NCDOT) across the proposed right-of way (ROW) and easement areas of the former Auto Salvage property located at 140 AKA 144 Ray Road, Spring Lake, NC. The survey area, as directed by the NCDOT, spanned from the northwest side of the property near the dirt road bounding the former auto salvage area to the southeast side of the property at the tree line near the parcel boundary. The survey area extended from Ray Road to the east and northeast, with an average width of 40 feet and a maximum width of 60 feet at the northern end. Conducted on September 6 and 7, 2012, the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) ROW expansion project to determine if unknown, metallic underground storage tanks (USTs) were present beneath the proposed ROW and easement areas of the site.

The area of the site surveyed was predominantly an open grassy and moderately vegetated area with some areas of bare ground. The geophysical survey area had a maximum width (east/west) of approximately 60 feet and a maximum length (north/south) of approximately 320 feet. It should be noted that the boundaries of Parcel 069 extend slightly farther to the north, outside of the survey area. However, based on the site history and review of historical aerial photographs, there was no indication or evidence of possible USTs in that section of the Parcel, and thus the survey was concentrated in the area surrounding the former Auto Salvage building. Photographs of the site are shown in **Figure 1**.

#### 2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the geophysical survey area using measuring tapes and water-based marking paint. These grid marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM survey was performed on September 6, 2012, using a Geonics EM61-MK2 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were digitally collected at approximately 0.8 foot intervals along north-south trending, parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61MK2 and Surfer for Windows Version 7.0 software programs.

GPR data were acquired on September 7, 2012, across selected EM61 differential anomalies using a GSSI SIR-3000 unit equipped with a 400 MHz antenna. Data were collected generally from east to west and north to south across specific EM61 anomalies. All of the GPR data were viewed in real time using a vertical scan of 512 samples, at a rate of 48 scans per second. GPR data were viewed down to a maximum depth of approximately 8 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. Due to the lack of any GPR response related to possible metallic USTs, GPR image files were not saved, and only the real-time data collection was used to confirm the nature of the anomalies.

Preliminary geophysical results were emailed to Gordon Box on September 28, 2012.

#### 3.0 DISCUSSION OF RESULTS

Contour plots of the EM61 bottom coil and differential results obtained across the proposed ROW and easement areas at the property are presented in **Figures 2 and 3**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The

differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

The following high amplitude anomalies were attributed to visible structures at the ground surface: The anomaly located at coordinates X=40, Y=130 was the result of a power pole and utility box, the anomaly located at coordinates X=30, Y=140 was the result of a metal mailbox, and the anomaly located at coordinates X=30, Y=210 was the result of a power pole and metal guy wire. Several additional EM61 anomalies (mostly low amplitude) were recorded throughout the survey area that could not be attributed to visible objects at the ground surface. However, the GPR surveys did not indicate the presence of any USTs associated with the EM61 responses. Figures 2 and 3 provide annotations for the majority of the anomalies and the interpreted cause of the EM61 response (i.e. buried metallic debris, utility, guy wire, etc.). These figures can be referred to for additional descriptions of the subsurface objects that are creating the EM61 response.

As stated above, GPR scans were performed and data viewed in real time across EM61 anomalies that could not be attributed to visible objects at the ground surface, such as mailboxes and utility junction boxes. The GPR scans did not indicate the presence of any metallic USTs at the site, suggesting the remaining anomalies are the result of isolated areas of buried metallic debris that are not attenuated by the GPR signal.

The geophysical investigation suggests that the area containing the proposed ROW and easement at Parcel 069 does <u>not</u> contain metallic USTs.

In accordance with the scope of work provided to Pyramid by the NCDOT, we also searched the property for any signs of monitor wells or groundwater wells within the proposed ROW or easement areas. No wells were observed at the time of our inspection.

### 4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the property located at 140 AKA 144 Ray Road, Spring Lake, North Carolina provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the geophysical survey area.
- The anomaly located at coordinates X=40, Y=130 was the result of a power pole and utility box, the anomaly located at coordinates X=30, Y=140 was the result of a metal mailbox, and the anomaly located at coordinates X=30, Y=210 was the result of a power pole and metal guy wire. The remaining EM61 anomalies were likely the result of likely areas of isolated buried metallic debris (see Figures 2 and 3).
- GPR scans performed across all anomalies not clearly associated with metallic objects at the ground surface provided no evidence of metallic USTs.
- The geophysical investigation suggests that the proposed ROW and easement areas at the property do <u>not</u> contain metallic USTs.
- Site observations did not indicate the presence of any monitor wells or groundwater wells at the time of our inspection.

### 5.0 <u>LIMITATIONS</u>

EM61 and GPR surveys have been performed and this report prepared for the NCDOT in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR surveys are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project have not conclusively determined that metallic USTs do not lie within the proposed ROW and easement area of the Harnett County property, but that none were detected.

### **FIGURES**



Photograph of survey area, facing approximately north

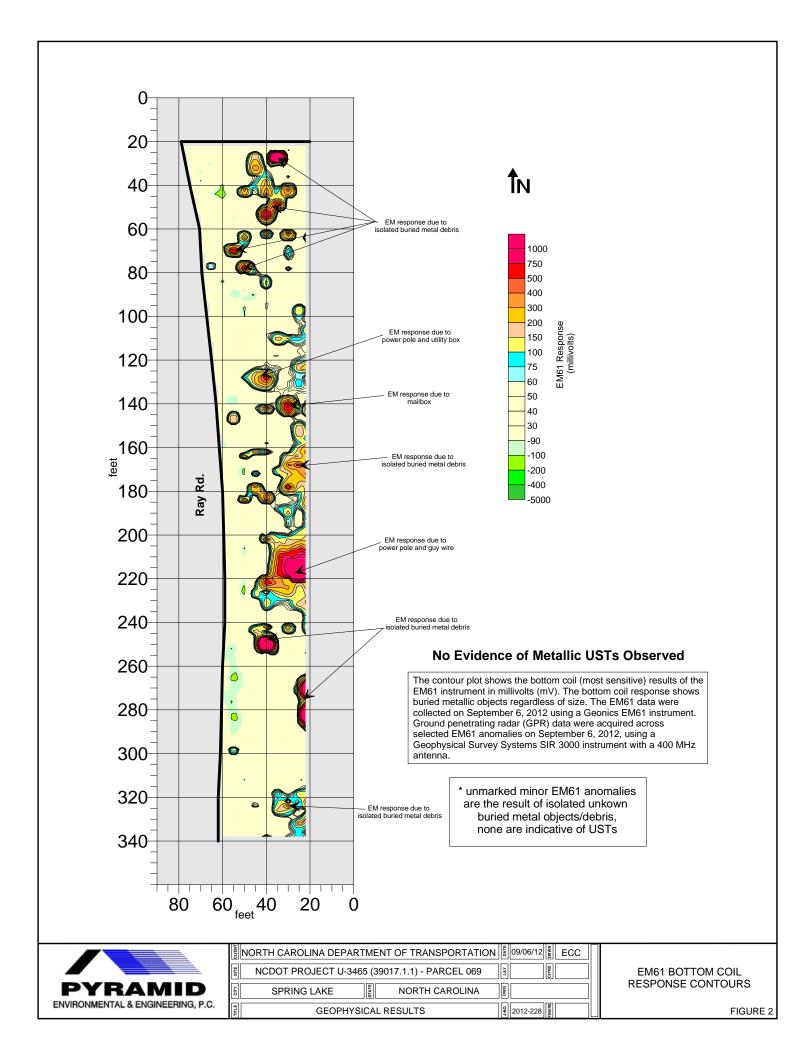


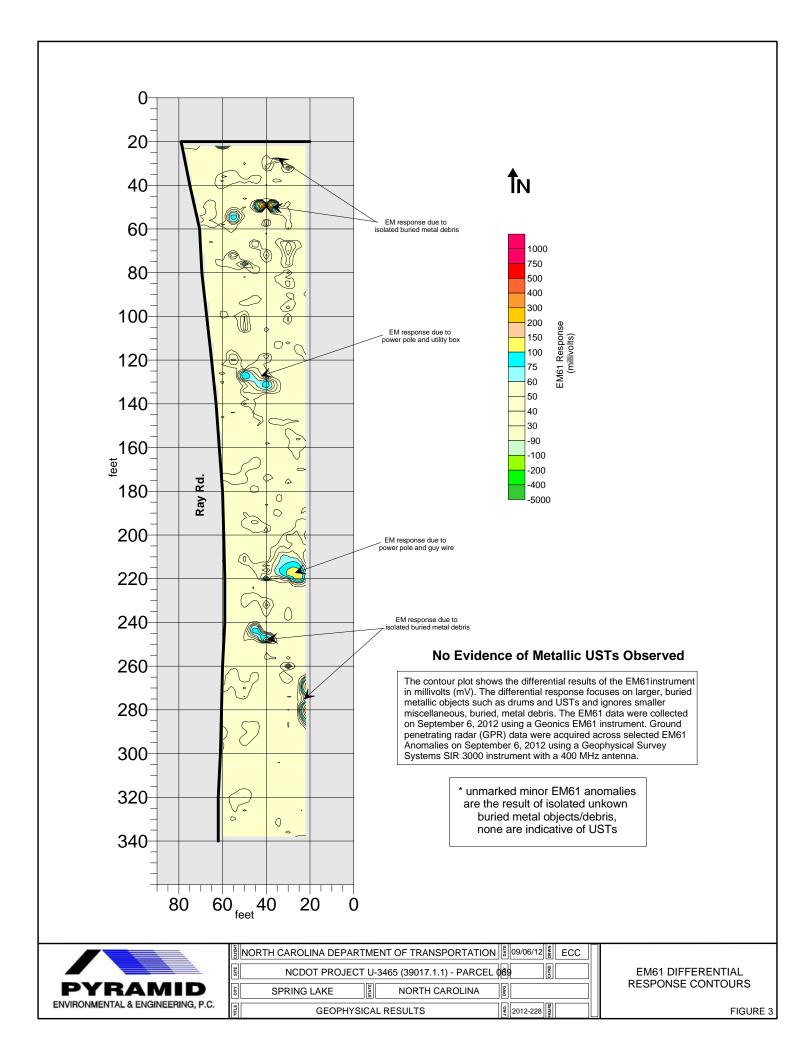
Photograph of survey area, facing approximately south

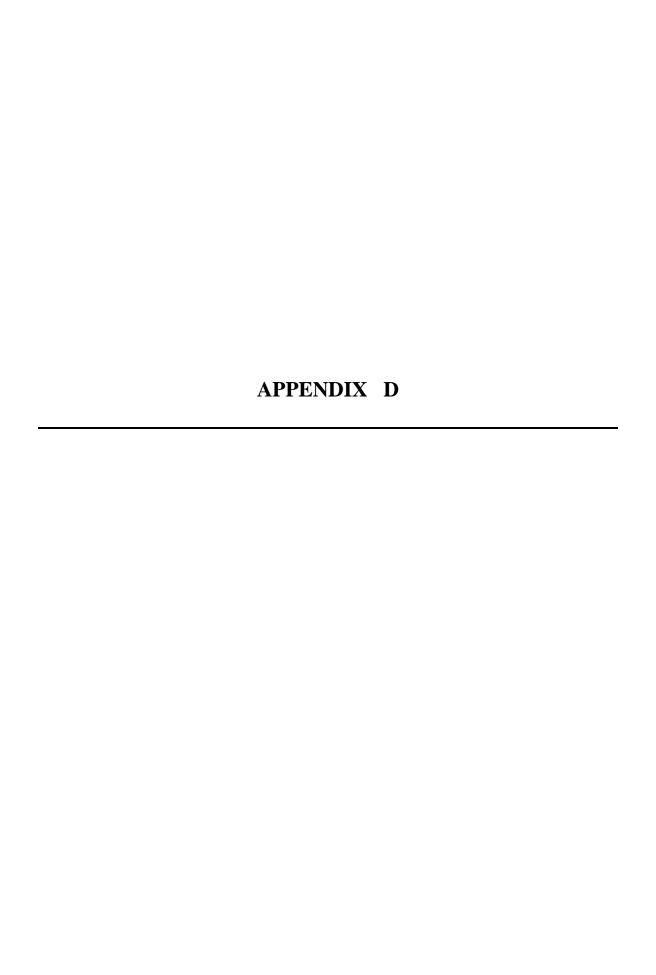


CLIENT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	DATE	09/06/12 ECC	1
SITE	NCDOT PROJECT U-3465 (39017.1.1) - PARCEL 069	ΓĄ	OH NO	
СПУ	SPRING LAKE	DWG		
шт	GEOPHYSICAL RESULTS	ON-C	2012-228	

SITE PHOTOGRAPHS







### Pyramid Environmental & Engineering, P.C.

### FIELD DRILLING RECORD

PROJECT NAME: PROJECT NUMBER:	NC DOT U-3465 Harnett County, Ray Road, Spring Lake / 2012-228	BORING/WELL NO:	69-1
SITE LOCATION:	140-144 Ray Road - Parcel 069 Harnett County	BORING/WELL LOCATION:	Parcel 069 - Near Ray Road
START DATE:	9/13/12	COMPLETED:	9/13/12
GEOLOGIST:	T. Leatherman	DRILLER:	AEDI
DRILL METHOD:	Geoprobe	SAMPLE METHOD:	Maco-core
BORING DIA:	2-inch	CASING DIA:	None
TOTAL DEPTH:	10 feet	CASING DEPTH:	None

DEPTH (ft.)	VISUAL MANUAL SOIL CLASSIFICATION COLOR, TEXTURE, STRUCTURE, CONSISTENCY, ODOR, ETC.	OVA RESULTS PERCENT RECOVERY BLOW COUNTS
0 to 3'	Brown to tan, clayey-sand (SC), moist no visible staining, no odor	PID=69-1(1-3'): 10 PPM
3 to 5'	Brown, clayey-sand to sandy-clay (SC to ML), moist,	PID=69-1(3-5'): 0 PPM
	no visible staining, no odor	
5 to 7.5'	Brown to tan, sandy-clay (ML to CL), moist, no visible staining, no odor	PID=69-1(5-7.5'): 75 PPM
7.5-10'	Tan, clayey-sand (SC), moist, no staining, no odor	PID=69-1(7.5-10'): 70 PPM
<u> </u>	MONITODING WELL INCODMATION (IE ADDLICA	D. T.

### MONITORING WELL INFORMATION (IF APPLICABLE)

RISER LENGTH (ft)	DEPTH (ft)	DIAMETER (in)	MATERIAL
SCREEN LENGTH (ft)	DEPTH (ft)	DIAMETER (in)	MATERIAL
DEPTH TO TOP OF SAND _		BAGS OF SAND	
DEPTH TO TOP SEAL	BENTONIT	ΓE USED	BAGS OF CEMENT USED

### Pyramid Environmental & Engineering, P.C.

### FIELD DRILLING RECORD

PROJECT NAME: PROJECT NUMBER:	NC DOT U-3465 Harnett County, Ray Road, Spring Lake / 2012-228	BORING/WELL NO:	69-2
SITE LOCATION:	140-144 Ray Road - Parcel 069 Harnett County	BORING/WELL LOCATION:	Parcel 069 - Near Ray Road
START DATE:	9/13/12	COMPLETED:	9/13/12
GEOLOGIST:	T. Leatherman	DRILLER:	AEDI
DRILL METHOD:	Geoprobe	SAMPLE METHOD:	Maco-core
BORING DIA:	2-inch	CASING DIA:	None
TOTAL DEPTH:	10 feet	CASING DEPTH:	None

DEPTH (ft.)	VISUAL MANUAL SOIL CLASSIFICATION COLOR, TEXTURE, STRUCTURE, CONSISTENCY, ODOR, ETC.	OVA RESULTS PERCENT RECOVERY BLOW COUNTS
		DID 00 0/0 01) 400 DDM
0 to 5'	Brown to tan, sandy-clay to clayey-sand (SC), moist, no visible staining,	PID=69-2(0-2'): 100 PPM
	no odor	PID=69-2(3-5'): 95 PPM
5 to 10'	Tan to white, clayey-sand (SC), moist, no staining, no odor	PID=69-2(5-7.5'): 100 PPM
		PID=69-2(7.5-10'): 85 PPM
	MONITORING WELL INFORMATION (IF APPLICA	ABLE)

### MONITORING WELL INFORMATION (IF APPLICABLE)

RISER LENGTH (ft)	DEPTH (ft)	DIAMETER (in)	MATERIAL
SCREEN LENGTH (ft)	DEPTH (ft)	DIAMETER (in)	MATERIAL
DEPTH TO TOP OF SAND		BAGS OF SAND	
DEPTH TO TOP SEAL	BENTONIT	ΓE USED	BAGS OF CEMENT USED

### Pyramid Environmental & Engineering, P.C.

### FIELD DRILLING RECORD

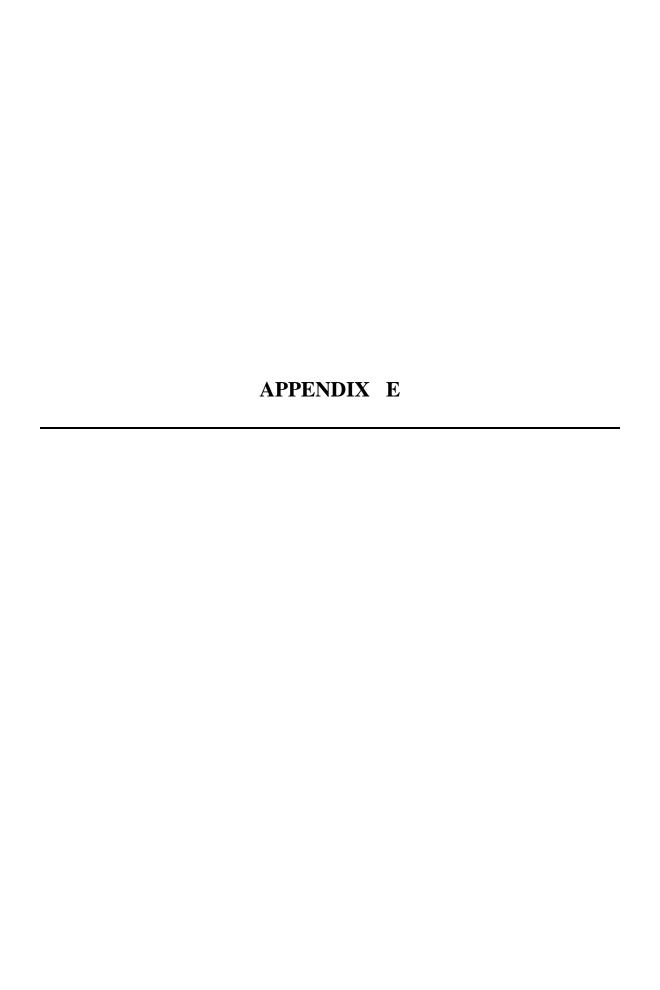
PROJECT NAME: PROJECT NUMBER:	NC DOT U-3465 Harnett County, Ray Road, Spring Lake / 2012-228	BORING/WELL NO:	69-3
SITE LOCATION:	140-144 Ray Road - Parcel 069 Harnett County	BORING/WELL LOCATION:	Parcel 069 - Near Ray Road
START DATE:	9/13/12	COMPLETED:	9/13/12
GEOLOGIST:	T. Leatherman	DRILLER:	AEDI
DRILL METHOD:	Geoprobe	SAMPLE METHOD:	Maco-core
BORING DIA:	2-inch	CASING DIA:	1-inch
TOTAL DEPTH:	36 feet	CASING DEPTH:	36 feet

DEDTH	VISUAL MANUAL SOIL CLASSIFICATION	OVA RESULTS PERCENT RECOVERY
DEPTH (ft.)	COLOR, TEXTURE, STRUCTURE, CONSISTENCY, ODOR, ETC.	PERCENT RECOVERY BLOW COUNTS
0 to 2'	Brown to tan, sand (SP), moist, no visible staining, no odor	PID=69-3(0-2'): 20 PPM
2 to 5'	Brown, clayey-sand to sandy-clay (SC to ML), moist,	PID=69-3(2-5'): 75 PPM
	no visible staining, no odor	
5 to 10'	Tan to white, clayey-sand to sandy-clay (ML to SC), moist,	PID=69-3(5-7.5'): 95 PPM
	no staining, no odor	PID=69-3(7.5-10'): 89 PPM
	Set 1-inch diameter well at 36 feet with 10 feet of screen.	
	Depth-to-groundwater 33 feet BLS.	

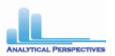
### MONITORING WELL INFORMATION (IF APPLICABLE)

RISER LENGTH (ft) 26	DEPTH (ft) 0-26	DIAMETER (in) 1	MATERIAL PVC .
SCREEN LENGTH (ft) 10	DEPTH (ft) 26-36	DIAMETER (in) 1	MATERIAL PVC .
DEPTH TO TOP OF SAND 1	<u>VA</u>	BAGS OF SAND NA .	

DEPTH TO TOP SEAL NA BENTONITE USED NA BAGS OF CEMENT USED NA.







### **Laboratory Report of Analysis**

To: Tim Leatherman

Pyramid PO Box 16265

Greensboro, NC 27416

Report Number: 31202949

Client Project: Ray Rd., Parcel 069

Dear Tim Leatherman.

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara A. Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,

SGS North America Inc.

Bailara S. Hager

Barbara A. Hager

2012.09.25 09:03:15 -05'00'

Barbara A. Hager

Project Manager

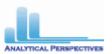
barbara.hager@sgs.com

Date

Print Date: 09/25/2012 N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.





### **Laboratory Qualifiers**

### **Report Definitions**

DL Method, Instrument, or Estimated Detection Limit per Analytical Method

CL Control Limits for the recovery result of a parameter

LOQ Reporting Limit
DF Dilution Factor

RPD Relative Percent Difference

LCS(D) Laboratory Control Spike (Duplicate)

MS(D) Matrix Spike (Duplicate)

MB Method Blank

### **Qualifier Definitions**

\* Recovery or RPD outside of control limits

B Analyte was detected in the Lab Method Blank at a level above the LOQ

U Undetected (Reported as ND or < DL)

V Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit

A Amount detected is less than the Lower Method Calibration Limit

J Estimated Concentration.

O The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high

E Amount detected is greater than the Upper Calibration Limit

S The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)

Indicates the presence of a quantitative interference. This situation may result in an

underestimation of the affected analyte(s)

I Indicates the presence of a qualitative interference that could cause a false positive or an

overestimation of the affected analyte(s)

DPE Indicates the presence of a peak in the polychlorinated diphenylether channel that could

cause a false positive or an overestimation of the affected analyte(s)

TIC Tentatively Identified Compound

EMPC Estimated Maximum possible Concentration due to ion ratio failure

ND Not Detected

Q

K Result is estimated due to ion ratio failure in High Resolution PCB Analysis

P RPD > 40% between results of dual columns

D Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration

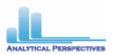
range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1 Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

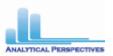




### Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
69-1 (5-7.5)	31202949001	09/13/2012 13:10	09/17/2012 08:40	Soil-Solid as dry weight
69-2 (0-2)	31202949002	09/13/2012 13:15	09/17/2012 08:40	Soil-Solid as dry weight
69-3 (5-7.5)	31202949003	09/13/2012 13:45	09/17/2012 08:40	Soil-Solid as dry weight
69-3 (TW)	31202949004	09/13/2012 15:00	09/17/2012 08:40	Water





### **Case Narrative**

### 69-1 (5-7.5)

8015 GRO- A batch MS/MSD is not reported with batch VGC2149 as the parent sample required additional dilutions.

### 69-2 (0-2

8015 GRO- A batch MS/MSD is not reported with batch VGC2149 as the parent sample required additional dilutions.

### 69-3 (5-7.5)

8015 GRO- A batch MS/MSD is not reported with batch VGC2149 as the parent sample required additional dilutions.

### LCS for HBN 29077 [VXX/4027]

8015 GRO- A batch MS/MSD is not reported with batch VGC2149 as the parent sample required additional dilutions.

### LCSD for HBN 29077 [VXX/4027]

8015 GRO- A batch MS/MSD is not reported with batch VGC2149 as the parent sample required additional dilutions.

### MB for HBN 29077 [VXX/4027]

8015 GRO- A batch MS/MSD is not reported with batch VGC2149 as the parent sample required additional dilutions.





### **Detectable Results Summary**

Client Sample ID: **69-3 (TW)** Lab Sample ID: 31202949004-A

SM 6200-B

<u>Parameter</u>	Result	<u>Units</u>	
Benzene	0.540	ug/L	
Styrene	0.230	ug/L	J
Toluene	0.490	ug/L	J
Xylene (total)	1.09	ug/L	J
m,p-Xylene	1.09	ug/L	





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### Results of 69-1 (5-7.5)

Client Sample ID: 69-1 (5-7.5)

Client Project ID: Ray Rd., Parcel 069 Lab Sample ID: 31202949001-A

Lab Project ID: 31202949

Collection Date: 09/13/2012 13:10 Received Date: 09/17/2012 08:40 Matrix: Soil-Solid as dry weight

Solids (%): 87.80

### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Gasoline Range Organics (GRO)	ND	U	4.10	4.10	mg/kg	1	09/20/2012 19:23
Surrogates							

### **Batch Information**

4-Bromofluorobenzene

Analytical Batch: VGC2149

Analytical Method: **SW-846 8015C GRO** Instrument: **GC7** 

Analyst: MDY

Prep Batch: VXX4027

70.0-130

Prep Method: **SW-846 5035**Prep Date/Time: **09/18/2012 09:23**Prep Initial Wt./Vol.: **5.56 g** 

Prep Extract Vol: 5 mL

Print Date: 09/25/2012 N.C. Certification # 481

09/20/2012 19:23





### Results of 69-1 (5-7.5)

Client Sample ID: 69-1 (5-7.5)

Client Project ID: Ray Rd., Parcel 069 Lab Sample ID: 31202949001-C

Lab Project ID: 31202949

Collection Date: 09/13/2012 13:10 Received Date: 09/17/2012 08:40 Matrix: Soil-Solid as dry weight

Solids (%): 87.80

### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Diesel Range Organics (DRO)	ND	U	7.06	7.06	mg/kg	1	09/21/2012 1:21
Surrogates							
o-Terphenyl	98.0			40 0-140	%	1	09/21/2012 1:21

### **Batch Information**

Analytical Batch: XGC2545

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Prep Batch: XXX3067

Prep Method: **SW-846 3541** 

Prep Date/Time: 09/19/2012 11:45
Prep Initial Wt./Vol.: 32.26 g

Prep Extract Vol: 10 mL





### Results of 69-1 (5-17

Client Sample ID: 69-1 (5-17

Client Project ID: .) R. ayd, ) Pr ce569 Lab Sample ID: 31202949002-A

Lab Project ID: 31202949

Collection Date: 09/13/2012 13:15 Received Date: 09/17/2012 08:40

Matrix: Soil-Solid as dry weight

Solids (%): 78.90

### Results by I 0 -SW6 S584C G. O

Parameter Gasoline Range Organics (GRO)	Result ND	<u>Qual</u> U	<u>DL</u> 3.74	<u>LOQ/CL</u> 3.74	<u>Units</u> mg/kg	<u>DF</u> 1	<u>Date Analyzed</u> 09/20/2012 19:48
I uPPog) tcs							
4-Bromofluorobenzene	104			70 0-130	%	1	09/20/2012 19:48

### B) tr h InfoPm) tion

Analytical Batch: VGC18V9

Analytical Method: I 0 -SV6 S584C G. O

Instrument: GC2
Analyst: MDY

Prep Batch: VXXW512

Prep Method: I 0 -SV6 4534

Prep Date/Time: 59/8\$/1581 59:1W

Prep Initial Wt./Vol.: 6y2S g Prep Extract Vol: 4 mL





### Results of 69-1 (5-17

Client Sample ID: 69-1 (5-17

Client Project ID: .) R. ayd, ) Pr ce569 Lab Sample ID: 31202949002-C Lab Project ID: 31202949

Matrix: Soil-Solid as dry weight

Collection Date: 09/13/2012 13:15

Received Date: 09/17/2012 08:40

Solids (%): 78.90

### Results by I 0 -SW6 S584C D. O

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Diesel Range Organics (DRO)	ND	U	7.25	7.25	mg/kg	1	09/21/2012 1:49
I uProg) tcs							
o-Terphenyl	94.2			40.0-140	%	1	09/21/2012 1:49

### B) tr h InfoPm) tion

Analytical Batch: XGC14Wl
Analytical Method: I 0 -SW6 S584C D. O

Instrument: GC6
Analyst: DTF

Prep Batch: XXX356/

Prep Method: I 0 -SW6 34W8
Prep Date/Time: 5928921581 88:W4
Prep Initial Wt./Vol.: 3W94 g

Prep Extract Vol: 85 mL





### Results of 69-1 (5-7.5)

Client Sample ID: 69-1 (5-7.5)

Client Project ID: Ray Rd., Parcel 069 Lab Sample ID: 31202949003-A

Lab Project ID: 31202949

Collection Date: 09/13/2012 13:45 Received Date: 09/17/2012 08:40 Matrix: Soil-Solid as dry weight

Solids (%): 87.70

### Results by SW-846 80C5G ORu

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Gasoline Range Organics (GRO)	ND	U	3.63	3.63	mg/kg	1	09/20/2012 20:14

### Sorrgt aæB

4-Bromofluorobenzene 105 70.0-130 % 1 09/20/2012 20:14

### hascl rfmgriaskgf

Analytical Batch: XOG3C49
Analytical Method: SW-846 80C5G ORu

Instrument: **OG7** Analyst: **MDY**  Prep Batch: X224037

Prep Method: **SW-846 5015** Prep Date/Time: **09/C8/30C3 09:35** 

Prep Initial Wt./Vol.: **6.39 t**Prep Extract Vol: **5 i** L





### Results of 69-1 (5-7.5)

Client Sample ID: 69-1 (5-7.5)

Client Project ID: Ray Rd., Parcel 069 Lab Sample ID: 31202949003-C

Lab Project ID: 31202949

Collection Date: 09/13/2012 13:45 Received Date: 09/17/2012 08:40 Matrix: Soil-Solid as dry weight

Solids (%): 87.70

### Results by SW-846 80C5D ORu

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Diesel Range Organics (DRO)	ND	U	6.65	6.65	mg/kg	1	09/21/2012 2:18

### Sorrgt aseB

o-Terphenyl 92.0 40.0-140 % 1 09/21/2012 2:18

### hasclrfngrias¥gf

Analytical Batch: 3 GD2545 Analytical Method: SW-846 80C5D ORu

Instrument: **GD6**Analyst: **OTF** 

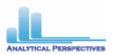
Prep Batch: 3331067

Prep Method: SW-846 154C

Prep Date/Time: 09/09/2002 00:45

Prep Initial Wt./Vol.: 14.28 t
Prep Extract Vol: C0 i L





### Results of 69-3 (TW)

Client Sample ID: 69-3 (TW)

Client Project ID: Ray Rd., Parcel 069 Lab Sample ID: 31202949004-A

Lab Project ID: 31202949

Collection Date: 09/13/2012 15:00 Received Date: 09/17/2012 08:40

Matrix: Water

### Results by SM 6200-B

Parameter	Result	Qual	<u>DL</u>	LOQ/CL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	U	0.104	0.500	ug/L	1	09/19/2012 14:45
1,1,1-Trichloroethane	ND	U	0.104	0.500	ug/L	1	09/19/2012 14:45
1,1,2,2-Tetrachloroethane	ND	U	0.126	0.500	ug/L	1	09/19/2012 14:45
1,1,2-Trichloroethane	ND	U	0.126	0.500	ug/L	1	09/19/2012 14:45
1.1-Dichloroethane	ND	U	0.120	0.500	ug/L	1	09/19/2012 14:45
1,1-Dichloroethene	ND	U	0.212	0.500	ug/L	1	09/19/2012 14:45
1,1-Dichloropropene	ND	U	0.112	0.500	ug/L	1	09/19/2012 14:45
1,2,3-Trichlorobenzene	ND	U	0.110	0.500	ug/L	1	09/19/2012 14:45
1,2,3-Trichloropropane	ND	U	0.212	0.500	ug/L	1	09/19/2012 14:45
1,2,4-Trichlorobenzene	ND	U	0.0913	0.500	ug/L	1	09/19/2012 14:45
1,2,4-Trimethylbenzene	ND	U	0.0961	0.500	ug/L	1	09/19/2012 14:45
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1	09/19/2012 14:45
1,2-Dibromoethane	ND	U	0.120	0.500	ug/L	1	09/19/2012 14:45
1,2-Dichlorobenzene	ND	U	0.137	0.500	ug/L	1	09/19/2012 14:45
1,2-Dichloroethane	ND	U	0.167	0.500	ug/L	1	09/19/2012 14:45
1,2-Dichloropropane	ND	U	0.163	0.500	ug/L	1	09/19/2012 14:45
1,3,5-Trimethylbenzene	ND	U	0.113	0.500	ug/L	1	09/19/2012 14:45
1,3-Dichlorobenzene	ND	U	0.103	0.500	ug/L	1	09/19/2012 14:45
1,3-Dichloropropane	ND	U	0.189	0.500	ug/L	1	09/19/2012 14:45
1,4-Dichlorobenzene	ND	U	0.130	0.500	ug/L	1	09/19/2012 14:45
2,2-Dichloropropane	ND	U	0.393	0.500	ug/L	1	09/19/2012 14:45
2-Chlorotoluene	ND	U	0.113	0.500	ug/L	1	09/19/2012 14:45
4-Chlorotoluene	ND	U	0.125	0.500	ug/L	1	09/19/2012 14:45
4-Isopropyltoluene	ND	U	0.0769	0.500	ug/L	1	09/19/2012 14:45
Benzene	0.540	J	0.113	0.500	ug/L	1	09/19/2012 14:45
Bromobenzene	ND	U	0.110	0.500	ug/L	1	09/19/2012 14:45
Bromochloromethane	ND	U	0.211	0.500	ug/L	1	09/19/2012 14:45
Bromodichloromethane	ND	U	0.110	0.500	ug/L	1	09/19/2012 14:45
Bromoform	ND	U	0.0974	0.500	ug/L	1	09/19/2012 14:45
Bromomethane	ND	U	0.237	0.500	ug/L	1	09/19/2012 14:45
n-Butylbenzene	ND	U	0.0769	0.500	ug/L	1	09/19/2012 14:45
Carbon tetrachloride	ND	U	0.101	0.500	ug/L	1	09/19/2012 14:45
Chlorobenzene	ND	U	0.116	0.500	ug/L	1	09/19/2012 14:45
Chloroethane	ND	U	0.311	0.500	ug/L	1	09/19/2012 14:45
Chloroform	ND	U	0.139	0.500	ug/L	1	09/19/2012 14:45
Chloromethane	ND	U	0.448	0.500	ug/L	1	09/19/2012 14:45
Dibromochloromethane	ND	U	0.134	0.500	ug/L	1	09/19/2012 14:45
Dibromomethane	ND	U	0.168	0.500	ug/L	1	09/19/2012 14:45
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1	09/19/2012 14:45
cis-1,3-Dichloropropene	ND	U	0.0767	0.500	ug/L	1	09/19/2012 14:45
trans-1,3-Dichloropropene	ND	U	0.0862	0.500	ug/L	1	09/19/2012 14:45
Diisopropyl Ether	ND	U	0.155	0.500	ug/L	1	09/19/2012 14:45





### Results of 69-3 (TW)

Client Sample ID: 69-3 (TW)

Client Project ID: Ray Rd., Parcel 069 Lab Sample ID: 31202949004-A

Lab Project ID: 31202949

Collection Date: 09/13/2012 15:00 Received Date: 09/17/2012 08:40

Matrix: Water

### Results by SM 6200-B

<u>Parameter</u>	Result	<u>Qual</u>	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
Hexachlorobutadiene	ND	U	0.0792	0.500	ug/L	1	09/19/2012 14:45
Isopropylbenzene (Cumene)	ND	U	0.0869	0.500	ug/L	1	09/19/2012 14:45
Methylene chloride	ND	U	0.152	5.00	ug/L	1	09/19/2012 14:45
Naphthalene	ND	U	0.0855	0.500	ug/L	1	09/19/2012 14:45
Styrene	0.230	J	0.102	0.500	ug/L	1	09/19/2012 14:45
Tetrachloroethene	ND	U	0.155	0.500	ug/L	1	09/19/2012 14:45
Toluene	0.490	J	0.133	0.500	ug/L	1	09/19/2012 14:45
Trichloroethene	ND	U	0.125	0.500	ug/L	1	09/19/2012 14:45
Trichlorofluoromethane	ND	U	0.137	0.500	ug/L	1	09/19/2012 14:45
Vinyl chloride	ND	U	0.124	0.500	ug/L	1	09/19/2012 14:45
Xylene (total)	1.09	J	0.269	1.50	ug/L	1	09/19/2012 14:45
cis-1,2-Dichloroethene	ND	U	0.136	0.500	ug/L	1	09/19/2012 14:45
m,p-Xylene	1.09		0.182	1.00	ug/L	1	09/19/2012 14:45
n-Propylbenzene	ND	U	0.113	0.500	ug/L	1	09/19/2012 14:45
o-Xylene	ND	U	0.0874	0.500	ug/L	1	09/19/2012 14:45
sec-Butylbenzene	ND	U	0.112	0.500	ug/L	1	09/19/2012 14:45
tert-Butyl methyl ether (MTBE)	ND	U	0.144	0.500	ug/L	1	09/19/2012 14:45
tert-Butylbenzene	ND	U	0.0855	0.500	ug/L	1	09/19/2012 14:45
trans-1,2-Dichloroethene	ND	U	0.223	0.500	ug/L	1	09/19/2012 14:45
Surrogates							
1,2-Dichloroethane-d4	103			64.0-140	%	1	09/19/2012 14:45
4-Bromofluorobenzene	101			85.0-115	%	1	09/19/2012 14:45
Toluene d8	105			82.0-117	%	1	09/19/2012 14:45

### **Batch Information**

Analytical Batch: VMS2561
Analytical Method: SM 6200-B

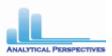
Instrument: MSD8
Analyst: BWS

Prep Batch: VXX4021

Prep Method: **SM 6200-B Prep** Prep Date/Time: **09/19/2012 08:35** 

Prep Initial Wt./Vol.: 40 mL
Prep Extract Vol: 40 mL





### **Batch Summary**

SM 6200-B Prep Method: SW-846 5030B Analytical Method:

Prep Batch: VXX4021

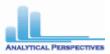
09/19/2012 08:52 Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	<u>Instrument</u>	<u>Analyst</u>
LCS for HBN 29035 [VXX/4021]	90096	09/19/2012 10:40	VMS2561	MSD8	BWS
LCSD for HBN 29035 [VXX/4021]	90097	09/19/2012 11:04	VMS2561	MSD8	BWS
MB for HBN 29035 [VXX/4021]	90098	09/19/2012 11:53	VMS2561	MSD8	BWS
69-3 (TW)	31202949004	09/19/2012 14:45	VMS2561	MSD8	BWS
4-5 (TW)(89998DUP)	90222	09/19/2012 17:12	VMS2561	MSD8	BWS
9-9 (TW)(89985MS)	90223	09/19/2012 17:37	VMS2561	MSD8	BWS

Print Date: 09/25/2012 N.C. Certification # 481

Member of the SGS Group (SGS SA)





### Method Blank

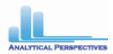
Blank ID: MB for HBN 29035 [VXX/4021]

Blank Lab ID: 90098 QC for Samples: 31202949004 Matrix: Water

### Results by SM 6200-B

<u>Parameter</u>	Result	Qual	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>
Dichlorodifluoromethane	ND	U	0.171	5.00	ug/L	1
Chloromethane	ND	U	0.448	0.500	ug/L	1
Vinyl chloride	ND	U	0.124	0.500	ug/L	1
Bromomethane	ND	U	0.237	0.500	ug/L	1
Chloroethane	ND	U	0.311	0.500	ug/L	1
Trichlorofluoromethane	ND	U	0.137	0.500	ug/L	1
1,1-Dichloroethene	ND	U	0.212	0.500	ug/L	1
Methylene chloride	ND	U	0.152	5.00	ug/L	1
trans-1,2-Dichloroethene	ND	U	0.223	0.500	ug/L	1
tert-Butyl methyl ether (MTBE)	ND	U	0.144	0.500	ug/L	1
1,1-Dichloroethane	ND	U	0.165	0.500	ug/L	1
Diisopropyl Ether	ND	U	0.155	0.500	ug/L	1
2,2-Dichloropropane	ND	U	0.393	0.500	ug/L	1
cis-1,2-Dichloroethene	ND	U	0.136	0.500	ug/L	1
Bromochloromethane	ND	U	0.211	0.500	ug/L	1
Chloroform	ND	U	0.139	0.500	ug/L	1
1,1,1-Trichloroethane	ND	U	0.123	0.500	ug/L	1
Carbon tetrachloride	ND	U	0.101	0.500	ug/L	1
1,1-Dichloropropene	ND	U	0.112	0.500	ug/L	1
Benzene	ND	U	0.113	0.500	ug/L	1
1,2-Dichloroethane	ND	U	0.167	0.500	ug/L	1
Trichloroethene	ND	U	0.125	0.500	ug/L	1
1,2-Dichloropropane	ND	U	0.163	0.500	ug/L	1
Dibromomethane	ND	U	0.168	0.500	ug/L	1
Bromodichloromethane	ND	U	0.110	0.500	ug/L	1
cis-1,3-Dichloropropene	ND	U	0.0767	0.500	ug/L	1
Toluene	ND	U	0.133	0.500	ug/L	1
trans-1,3-Dichloropropene	ND	U	0.0862	0.500	ug/L	1
1,1,2-Trichloroethane	ND	U	0.126	0.500	ug/L	1
Tetrachloroethene	ND	U	0.155	0.500	ug/L	1
1,3-Dichloropropane	ND	U	0.189	0.500	ug/L	1
Dibromochloromethane	ND	U	0.134	0.500	ug/L	1
1.2-Dibromoethane	ND	Ü	0.120	0.500	ug/L	1
Chlorobenzene	ND	U	0.116	0.500	ug/L	1
1,1,1,2-Tetrachloroethane	ND	U	0.104	0.500	ug/L	1
Bromoform	ND	U	0.0974	0.500	ug/L	1
Bromobenzene	ND	U	0.110	0.500	ug/L	1
1,1,2,2-Tetrachloroethane	ND	U	0.156	0.500	ug/L	1
1,2,3-Trichloropropane	ND	U	0.212	0.500	ug/L	1
Ethyl Benzene	ND	U	0.0877	0.500	ug/L	1
m,p-Xylene	ND	U	0.182	1.00	ug/L	1





### Method Blank

Blank ID: MB for HBN 29035 [VXX/4021]

Blank Lab ID: 90098 QC for Samples: 31202949004 Matrix: Water

### Results by SM 6200-B

<u>Parameter</u>	Result	<u>Qual</u>	<u>DL</u>	LOQ/CL	<u>Units</u>	DF
Styrene	ND	U	0.102	0.500	ug/L	1
o-Xylene	ND	U	0.0874	0.500	ug/L	1
Xylene (total)	ND	U	0.269	1.50	ug/L	1
Isopropylbenzene (Cumene)	ND	U	0.0869	0.500	ug/L	1
n-Propylbenzene	ND	U	0.113	0.500	ug/L	1
2-Chlorotoluene	ND	U	0.113	0.500	ug/L	1
4-Chlorotoluene	ND	U	0.125	0.500	ug/L	1
1,3,5-Trimethylbenzene	ND	U	0.113	0.500	ug/L	1
tert-Butylbenzene	ND	U	0.0855	0.500	ug/L	1
1,2,4-Trimethylbenzene	ND	U	0.0961	0.500	ug/L	1
sec-Butylbenzene	ND	U	0.112	0.500	ug/L	1
1,3-Dichlorobenzene	ND	U	0.103	0.500	ug/L	1
4-Isopropyltoluene	ND	U	0.0769	0.500	ug/L	1
1,4-Dichlorobenzene	ND	U	0.130	0.500	ug/L	1
1,2-Dichlorobenzene	ND	U	0.137	0.500	ug/L	1
n-Butylbenzene	ND	U	0.0769	0.500	ug/L	1
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1
1,2,4-Trichlorobenzene	ND	U	0.0913	0.500	ug/L	1
Hexachlorobutadiene	ND	U	0.0792	0.500	ug/L	1
Naphthalene	ND	U	0.0855	0.500	ug/L	1
1,2,3-Trichlorobenzene	ND	U	0.110	0.500	ug/L	1
Surrogates						
1,2-Dichloroethane-d4	97.5			64.0-140	%	1
Toluene d8	102			82.0-117	%	1
4-Bromofluorobenzene	101			85.0-115	%	1

### **Batch Information**

Analytical Batch: VMS2561 Analytical Method: SM 6200-B

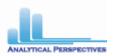
Instrument: MSD8 Analyst: BWS Prep Batch: VXX4021

Prep Method: SW-846 5030B

Prep Date/Time: 9/19/2012 8:52:28AM

Prep Initial Wt./Vol.: 40 mL Prep Extract Vol: 40 mL





Blank Spike ID: LCS for HBN 29035 [VXX/4021]

Blank Spike Lab ID: 90096

Date Analyzed: 09/19/2012 10:40

QC for Samples: 31202949004

Spike Duplicate ID: LCSD for HBN 29035 [VXX/4021]

Spike Duplicate Lab ID: 90097 Date Analyzed: 09/19/2012 11:04

Matrix: Water

### Results by SM 6200-B

Blank Spike (ug/L)					Spike Duplica	te (ua/L)			
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Dichlorodifluoromethane	5.00	5.35	107	5.00	5.76	115	33.0-170	7.4	30.00
Chloromethane	5.00	5.45	109	5.00	5.62	112	57.0-132	3.1	30.00
Vinyl chloride	5.00	4.58	92	5.00	4.76	95	59.0-138	3.9	30.00
Bromomethane	5.00	5.92	118	5.00	5.93	119	51.0-134	0.17	30.00
Chloroethane	5.00	5.49	110	5.00	5.48	110	64.0-145	0.18	30.00
Trichlorofluoromethane	5.00	5.30	106	5.00	5.81	116	64.0-133	9.2	30.00
1,1-Dichloroethene	5.00	5.93	119	5.00	5.44	109	71.0-128	8.6	30.00
Methylene chloride	5.00	5.32	106	5.00	5.78	116*	70.0-113	8.3	30.00
trans-1,2-Dichloroethene	5.00	5.96	119	5.00	5.86	117	57.0-138	1.7	30.00
tert-Butyl methyl ether (MTBE)	5.00	5.79	116	5.00	5.48	110	47.0-142	5.5	30.00
1,1-Dichloroethane	5.00	6.35	127	5.00	6.13	123	68.0-133	3.5	30.00
Diisopropyl Ether	5.00	6.52	130	5.00	6.16	123	66.0-132	5.7	30.00
2,2-Dichloropropane	5.00	6.88	138*	5.00	5.91	118	74.0-125	15	30.00
cis-1,2-Dichloroethene	5.00	6.55	131*	5.00	5.51	110	73.0-128	17	30.00
Bromochloromethane	5.00	5.77	115	5.00	5.66	113	73.0-128	1.9	30.00
Chloroform	5.00	6.61	132*	5.00	5.59	112	74.0-124	17	30.00
1,1,1-Trichloroethane	5.00	5.83	117	5.00	5.77	115	76.0-119	1.0	30.00
Carbon tetrachloride	5.00	5.89	118	5.00	5.67	113	75.0-120	3.8	30.00
1,1-Dichloropropene	5.00	5.32	106	5.00	5.47	109	76.0-124	2.8	30.00
Benzene	5.00	5.53	111	5.00	5.43	109	76.0-124	1.8	30.00
1,2-Dichloroethane	5.00	5.86	117	5.00	5.56	111	76.0-119	5.3	30.00
Trichloroethene	5.00	5.25	105	5.00	5.19	104	74.0-121	1.1	30.00
1,2-Dichloropropane	5.00	5.29	106	5.00	5.49	110	74.0-124	3.7	30.00
Dibromomethane	5.00	5.07	101	5.00	5.49	110	71.0-128	8.0	30.00
Bromodichloromethane	5.00	5.65	113	5.00	5.42	108	72.0-120	4.2	30.00
cis-1,3-Dichloropropene	5.00	5.11	102	5.00	4.98	100	73.0-122	2.6	30.00
Toluene	5.00	5.12	102	5.00	5.45	109	75.0-123	6.2	30.00
trans-1,3-Dichloropropene	5.00	5.30	106	5.00	5.07	101	70.0-125	4.4	30.00
1,1,2-Trichloroethane	5.00	5.71	114	5.00	5.68	114	76.0-121	0.53	30.00
Tetrachloroethene	5.00	5.50	110	5.00	5.51	110	59.0-112	0.18	30.00
1,3-Dichloropropane	5.00	5.70	114	5.00	5.59	112	74.0-120	1.9	30.00
Dibromochloromethane	5.00	5.65	113	5.00	5.29	106	67.0-122	6.6	30.00
1,2-Dibromoethane	5.00	5.46	109	5.00	5.45	109	74.0-119	0.18	30.00
Chlorobenzene	5.00	5.37	107	5.00	5.36	107	74.0-120	0.19	30.00





Blank Spike ID: LCS for HBN 29035 [VXX/4021]

Blank Spike Lab ID: 90096

Date Analyzed: 09/19/2012 10:40

QC for Samples: 31202949004

Spike Duplicate ID: LCSD for HBN 29035 [VXX/4021]

Spike Duplicate Lab ID: 90097 Date Analyzed: 09/19/2012 11:04

Matrix: Water

### Results by SM 6200-B

		Blank Spike	(ug/L)	5	Spike Duplica	ite (ug/L)			
<u>Parameter</u>	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	5.00	5.62	112	5.00	5.43	109	73.0-119	3.4	30.00
Bromoform	5.00	5.47	109	5.00	5.43	109	62.0-127	0.73	30.00
Bromobenzene	5.00	5.00	100	5.00	5.41	108	75.0-120	7.9	30.00
1,1,2,2-Tetrachloroethane	5.00	5.40	108	5.00	5.20	104	68.0-129	3.8	30.00
1,2,3-Trichloropropane	5.00	5.05	101	5.00	5.19	104	67.0-126	2.7	30.00
Ethyl Benzene	5.00	6.02	120	5.00	5.38	108	76.0-123	11	30.00
m,p-Xylene	10.0	10.8	108	10.0	9.81	98	76.0-124	9.6	30.00
Styrene	5.00	5.43	109	5.00	4.87	97	76.0-121	11	30.00
o-Xylene	5.00	6.03	121	5.00	5.03	101	75.0-124	18	30.00
Isopropylbenzene (Cumene)	5.00	5.60	112	5.00	5.27	105	77.0-120	6.1	30.00
n-Propylbenzene	5.00	5.62	112	5.00	5.07	101	77.0-123	10	30.00
2-Chlorotoluene	5.00	5.52	110	5.00	5.29	106	74.0-127	4.3	30.00
4-Chlorotoluene	5.00	5.52	110	5.00	5.05	101	77.0-123	8.9	30.00
1,3,5-Trimethylbenzene	5.00	5.50	110	5.00	5.20	104	76.0-122	5.6	30.00
tert-Butylbenzene	5.00	5.12	102	5.00	5.12	102	67.0-122	0.0	30.00
1,2,4-Trimethylbenzene	5.00	5.32	106	5.00	5.11	102	76.0-124	4.0	30.00
sec-Butylbenzene	5.00	5.22	104	5.00	5.03	101	78.0-121	3.7	30.00
1,3-Dichlorobenzene	5.00	5.63	113	5.00	5.54	111	75.0-120	1.6	30.00
4-Isopropyltoluene	5.00	5.12	102	5.00	4.86	97	77.0-120	5.2	30.00
1,4-Dichlorobenzene	5.00	5.10	102	5.00	5.25	105	70.0-125	2.9	30.00
1,2-Dichlorobenzene	5.00	5.51	110	5.00	4.83	97	76.0-118	13	30.00
n-Butylbenzene	5.00	4.72	94	5.00	4.49	90	78.0-118	5.0	30.00
1,2-Dibromo-3-chloropropane	30.0	32.9	110	30.0	28.4	95	62.0-130	15	30.00
1,2,4-Trichlorobenzene	5.00	4.73	95	5.00	4.16	83	72.0-119	13	30.00
Hexachlorobutadiene	5.00	5.16	103	5.00	4.32	86	69.0-121	18	30.00
Naphthalene	5.00	4.48	90	5.00	4.15	83	67.0-122	7.6	30.00
1,2,3-Trichlorobenzene	5.00	5.21	104	5.00	4.69	94	21.0-193	11	30.00
Gurrogates									
1,2-Dichloroethane-d4			96.8			104	64.0-140		
Toluene d8			95.6			98.9	82.0-117		
4-Bromofluorobenzene			99			103	85.0-115		





Blank Spike ID: LCS for HBN 29035 [VXX/4021]

Blank Spike Lab ID: 90096

Date Analyzed: 09/19/2012 10:40

QC for Samples: 31202949004

Spike Duplicate ID: LCSD for HBN 29035 [VXX/4021]

Spike Duplicate Lab ID: 90097 Date Analyzed: 09/19/2012 11:04

Matrix: Water

### Results by SM 6200-B

Blank Spike (%)

Spike Duplicate (%)

Parameter Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL

**Batch Information** 

Analytical Batch: VMS2561
Analytical Method: SM 6200-B

Instrument: MSD8
Analyst: BWS

Prep Batch: VXX4021
Prep Method: SW-846 5030B
Prep Date/Time: 09/19/2012 08:52

Spike Init Wt./Vol.: 40 mL Extract Vol: 40 mL Dupe Init Wt./Vol.: 40 mL Extract Vol: 40 mL





### **Batch Summary**

SW-846 8015C GRO Prep Method: SW-846 5035 Analytical Method:

Prep Batch: VXX4027

09/20/2012 08:58 Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	<u>Instrument</u>	<u>Analyst</u>
LCS for HBN 29077 [VXX/4027]	90312	09/20/2012 11:21	VGC2149	GC7	MDY
LCSD for HBN 29077 [VXX/4027]	90313	09/20/2012 11:47	VGC2149	GC7	MDY
MB for HBN 29077 [VXX/4027]	90314	09/20/2012 12:12	VGC2149	GC7	MDY
69-1 (5-7.5)	31202949001	09/20/2012 19:23	VGC2149	GC7	MDY
69-2 (0-2)	31202949002	09/20/2012 19:48	VGC2149	GC7	MDY
69-3 (5-7.5)	31202949003	09/20/2012 20:14	VGC2149	GC7	MDY

Print Date: 09/25/2012 N.C. Certification # 481

Member of the SGS Group (SGS SA)





### Method Blank

Blank ID: MB for HBN 29077 [VXX/4027]

Blank Lab ID: 90314 QC for Samples:

31202949001, 31202949002, 31202949003

Matrix: Soil-Solid as dry weight

### Results by SW-846 8015C GRO

<u>Parameter</u>	Result	<u>Qual</u>	<u>DL</u>	LOQ/CL	<u>Units</u>	DF
Gasoline Range Organics (GRO)	ND	U	4.00	4.00	mg/kg	1
Surrogates						
4-Bromofluorobenzene	98 7			70.0-130	%	1

### **Batch Information**

Analytical Batch: VGC2149

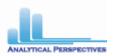
Analytical Method: SW-846 8015C GRO

Instrument: GC7 Analyst: MDY Prep Batch: VXX4027 Prep Method: SW-846 5035

Prep Date/Time: 9/20/2012 8:58:02AM

Prep Initial Wt./Vol.: 5 g Prep Extract Vol: 5 mL





Blank Spike ID: LCS for HBN 29077 [VXX/4027]

Blank Spike Lab ID: 90312

Date Analyzed: 09/20/2012 11:21

Spike Duplicate ID: LCSD for HBN 29077 [VXX/4027]

Spike Duplicate Lab ID: 90313 Date Analyzed: 09/20/2012 11:47 Matrix: Soil-Solid as dry weight

QC for Samples: 31202949001, 31202949002, 31202949003

### Results by SW-846 8015C GRO

Blank Spike (mg/kg) Spike Duplicate (mg/kg)

<u>Parameter</u> Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Gasoline Range Organics (GRO) 16.0 15.7 16.0 16.7 104 70.0-130 6.2 30.00

**Surrogates** 

4-Bromofluorobenzene 92.5 97.6 70.0-130

### **Batch Information**

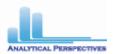
Analytical Batch: VGC2149

Analytical Method: SW-846 8015C GRO

Instrument: GC7
Analyst: MDY

Prep Batch: VXX4027
Prep Method: SW-846 5035
Prep Date/Time: 09/20/2012 08:58
Spike Init Wt./Vol.: 5 g Extract Vol: 5 mL
Dupe Init Wt./Vol.: 5 g Extract Vol: 5 mL





### **Batch Summary**

SW-846 8015C DRO Prep Method: SW-846 3541 Analytical Method:

Prep Batch: XXX3067

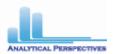
09/19/2012 11:45 Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	<u>Instrument</u>	<u>Analyst</u>
MB for HBN 29051 [XXX/3067]	90167	09/20/2012 02:53	XGC2541	GC6	DTF
LCS for HBN 29051 [XXX/3067]	90168	09/20/2012 03:21	XGC2541	GC6	DTF
69-1 (5-7.5)	31202949001	09/21/2012 01:21	XGC2545	GC6	DTF
69-2 (0-2)	31202949002	09/21/2012 01:49	XGC2545	GC6	DTF
69-3 (5-7.5)	31202949003	09/21/2012 02:18	XGC2545	GC6	DTF
19-4 (3-5)(89755MS)	90169	09/21/2012 06:34	XGC2545	GC6	DTF
19-4 (3-5)(89755MSD)	90170	09/21/2012 07:02	XGC2545	GC6	DTF

Print Date: 09/25/2012 N.C. Certification # 481

Member of the SGS Group (SGS SA)





### Method Blank

Blank ID: MB for HBN 29051 [XXX/3067]

Blank Lab ID: 90167 QC for Samples:

31202949001, 31202949002, 31202949003

Matrix: Soil-Solid as dry weight

### Results by SW-846 8015C DRO

<u>Parameter</u>	Result	<u>Qual</u>	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>
Diesel Range Organics (DRO)	ND	U	6.25	6.25	mg/kg	1
Surrogates						
o-Terphenyl	111			40.0-140	%	1

### **Batch Information**

Analytical Batch: XGC2541

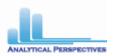
Analytical Method: SW-846 8015C DRO

Instrument: GC6 Analyst: DTF Prep Batch: XXX3067 Prep Method: SW-846 3541

Prep Date/Time: 9/19/2012 11:45:21AM

Prep Initial Wt./Vol.: 32 g Prep Extract Vol: 10 mL





Blank Spike ID: LCS for HBN 29051 [XXX/3067]

Blank Spike Lab ID: 90168

Date Analyzed: 09/20/2012 03:21

Matrix: Soil-Solid as dry weight

QC for Samples: 31202949001, 31202949002, 31202949003

### Results by SW-846 8015C DRO

Blank Spike (mg/kg)

 Parameter
 Spike
 Result
 Rec (%)
 CL

 Diesel Range Organics (DRO)
 62.5
 54.0
 86
 55.0-137

**Surrogates** 

o-Terphenyl 112 40.0-140

### **Batch Information**

Analytical Batch: XGC2541

Analytical Method: SW-846 8015C DRO

Instrument: GC6
Analyst: DTF

Prep Batch: XXX3067

Prep Method: **SW-846 3541** 

Prep Date/Time: 09/19/2012 11:45

Spike Init Wt./Vol.: 32 g Extract Vol: 10 mL

Dupe Init Wt./Vol.: Extract Vol:



### CHAIN OF CUSTODY RECORD SGS North America Inc.

Locations Nationwide

AlaskaNew JerseyNorth Carolina

Maryland
 New York
 Ohio

www.us.sgs.com

104682

ABSENT 9 REMARKS OF Samples Received Cold? (Circle) Chain of Custody Seal: (Circle) Temperature°C; Q, 2 °C BROKEN A STD PAGE INTACT Special Deliverable Requirements: Date Needed Requested Turnaround Time: Mono HC Special Instructions: Shipping Ticket No: SGS Reference: 3/2 029/4/9 Shipping Carrier: □ RUSH. COMP GEAB Z M K S MATRIX P.O. NUMBER: WRS 34017-1. FORDER NCDOY U-34 GE Received By: Received By: Received By TIME 9-13-B 9-13-D 530 0849 DATE Time Time Paro 064 SITE/PWSID#: FAX NO.:( 9/14/12 2/11/12 Date SAMPLE IDENTIFICATION N-3465 WBS 351017.1. Pramile Environmental 69.3 6-6-5 -69 INVOICE TO: NCDO Relinquished By: (4) Relinquished By: REPORTS TO: PROJECT! CONTACT: CLIENT: LAB NO.

□ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301 □ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

White - Retained by Lab Pink - Retained by Client

### SGS North America Inc.

### Sample Receipt Checklist (SRC)

Client:	NCDOT-Pyramid	Work Order No.:	31202949
1.	Shipped X Hand Delivered	Notes:	
2.	X COC Present on Receipt No COC Additional Transmittal Forms		
3.	Custody Tape on Container  X No Custody Tape		
4.	X Samples Intact Samples Broken / Leaking		
5.	X Chilled on Receipt Actual Temp.(s) in °C Ambient on Receipt X Walk-in on Ice; Coming down to temp. Received Outside of Temperature Specifical		
6.	X Sufficient Sample Submitted Insufficient Sample Submitted		
7.	Chlorine absent HNO3 < 2 HCL < 2 Additional Preservatives verified (see notes)		
8.	X Received Within Holding Time Not Received Within Holding Time		
9.	X No Discrepancies Noted Discrepancies Noted NCDENR notified of Discrepancies*		
10.	X No Headspace present in VOC vials Headspace present in VOC vials >6mm		
Comments:			
-	Inst	pected and Logged in by: J	J
		Date:	Mon-9/17/12 00:00



REPORTS TO:

LAB NO.

CLIENT:

## CHAIN OF CUSTODY RECORD

Locations Nationwide

 Maryland Alaska

104682 ABSENT 2 REMARKS Samples Received Cold? (Circle YYES) Ы Chain of Custody Seal: (Circle) Temperature  $^{\circ}$ C: O, S  $^{\circ}$ C BROKEN New York
 Ohio Дзтр PAGE www.us.sgs.com New Jersey
 North Carolina INTACT Special Deliverable Requirements: Requested Turnaround Time: 1 Now HC] Special Instructions: Shipping Ticket No: SGS Reference: 3/2 0 2 9/6Shipping Carrier: RUSH (e) SGS North America Inc. COMP GEAB MATRIX 2 W-3465 WBS 3907.1. (P.O. NUMBER: WBS 34017.1.) Gordon Bay QUOTE # NCROY U-34 GC Received By: Received By TIME 9-13-D **1530** 9-13-b DATE 8480 Time Para 064 SITE/PWSID#: 21//4/16 FAX NO.:( 2/11/12 T-34017 Date SAMPLE IDENTIFICATION Pyramild Environmental 69-3 **64-3** INVOICE TO: NCDOT CONTACT PROJECTION R Relinquished By: (4) Relinquished By:

<sup>□ 200</sup> W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301 □ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1967 Fax: (910) 350-1557

### SGS North America Inc.

### Sample Receipt Checklist (SRC)

Client:	NCDOT-Pyramid	Work Order No.:	31202949
1.	Shipped X Hand Delivered	Notes:	
2.	X COC Present on Receipt No COC Additional Transmittal Forms		
3.	Custody Tape on Container  X No Custody Tape		
4.	X Samples Intact Samples Broken / Leaking		
5.	X Chilled on Receipt Actual Temp.(s) in °C Ambient on Receipt X Walk-in on Ice; Coming down to temp. Received Outside of Temperature Specification		
6.	X Sufficient Sample Submitted Insufficient Sample Submitted		
7.	Chlorine absent HNO3 < 2 HCL < 2 Additional Preservatives verified (see notes)		
8.	X Received Within Holding Time Not Received Within Holding Time		
9.	X No Discrepancies Noted Discrepancies Noted NCDENR notified of Discrepancies*		
10.	X No Headspace present in VOC vials Headspace present in VOC vials >6mm		
Comments: _			
	Insp	pected and Logged in by: <u>J</u> Date:	J Mon-9/17/12 00:00

# APPENDIX F

FIELD PERSONNEL LOG				
PROJECT NAME: NCDOT I		PROJECT NO.: U-3465		
Name: Tim Leatherman	<b>Date:</b> 9/4/12	Mon Tue Wed Th Fri Sat Sun		
TASKS PERFORMED:	<del>- "</del>			
11:00 to 12:00 Load				
12:30 to 13:00 Lunch				
13:00 to 14:30 Travel to Ray R	oad Sites/Parcels.			
038, and 071. Granted access t	perty tenants and propert to all Parcels, but Parcel (	y owners for Parcels 004, 019, 021, 022, 071. Denied access to Parcel 071.		

FI	ELD PERSONNE	EL LOG
PROJECT NAME: NCDOT Harner TRACTS:19,21,22,69	tt County ROW	PROJECT NO.: U-3465
Name: Eric Cross/Alan McFadden	<b>Date:</b> 9/6/12	Mon Tue Wed Th Fri Sat Sun
TASKS PERFORMED:		
Performed geophysical surveys using penetrating radar equipment at Parce analysis/processing in field and from	ls 019, 021, 022, a	nd 069. Performed geophysical data
-		

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	FIELD PERSONNE	L LOG
PROJECT NAME: NCDOT Harnett County ROW TRACTS: ALL		PROJECT NO.: U-3465
Name: Tim Leatherman	<b>Date:</b> 9/10/12	Mon Tue Wed Th Fri Sat Sun
TASKS PERFORMED:		
9:00 to 11:00 Load and Travel to	Parcel 038	
11:00 to 12:00 Helped Eric with	Geophysics Survey at I	Parcel 038
12:00 to 13:00 Meet with Public	Utility Locators at Parc	cels 004, 009, 019, 021, 022, 038, & 069.
13:00 to 13:30 Lunch		
13:30 to 18:00 Helped Eric with	Geophysics Survey at I	Parcels 038 and 009.
		· · ·

FIELD PERSONNEL LOG				
PROJECT NAME: NCDOT I TRACTS: ALL	Harnett County ROW	PROJECT NO.: U-3465		
Name: Tim Leatherman	<b>Date:</b> 9/11/12	Mon Tue Wed Th Fri Sat Sun		
TASKS PERFORMED:	-			
8:00 to 9:00 Meet private utility project with them and looked a	y locator North State Loc t Parcels 004, 009, 019, (	eating at Parcels 019 & 021. Discussed 021, 022, 038, and 069.		
9:00 to 13:00 Travel and NCDI	ENR File Review at the I	Fayetteville Regional Office		
13:00 to 13:30 Discussed the ut	tilities found at each site	with utility locators.		
13:30 to 14:00 Lunch				
14:00 to 15:00 Go over the prel	iminary geophysical resu	alts with Eric for each site/parcel.		
15:00 to 17:00 Travel back to o	ffice and home to pickup	sampling supplies.		
<u> </u>	<del>.</del> .			
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FIELD PERSONNEL LOG					
PROJECT NAME: NCDOT Harnett County ROW PROJECT NO.: U-3465 TRACTS: 4,9,38,69					
Name: Tim Leatherman	<b>Date:</b> 9/14/12	Mon Tue Wed Th Fri Sat Sun			
TASKS PERFORMED:					
8:00 to 12:00 Finished soil bor	ings at Parcel 038, and co	ompleted site measurements.			
12:00 to 13:00 Lunch	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
13:00 to 16:00 Completed soil	borings and soil sampling	g at Parcel 004.			
16:00 to 17:00 Additional Site	Recon. at Parcels 009 and	1 069.			
17:00 to 19:00 Travel back to c	office and unload.				
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